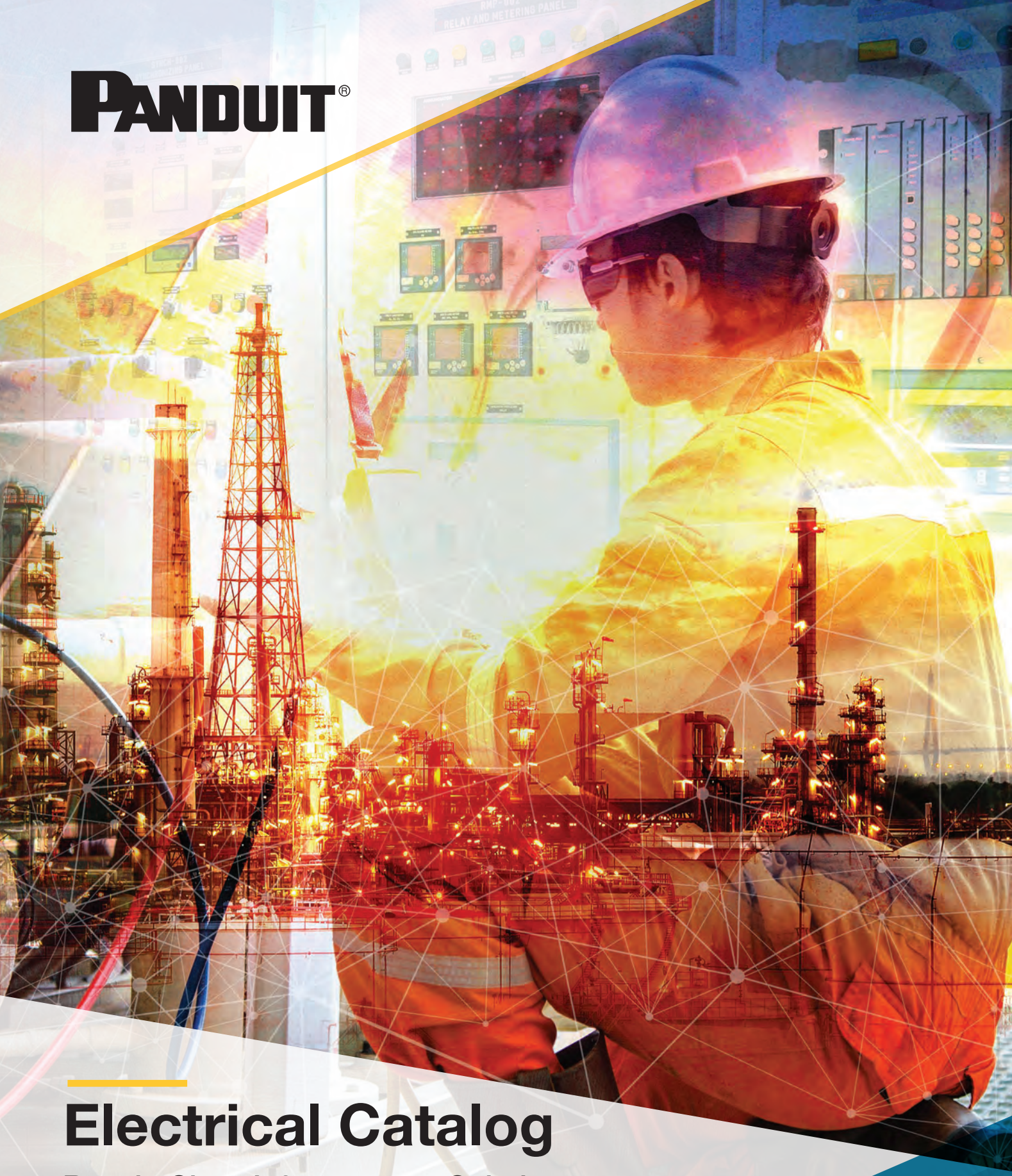
PANDUIT®



Electrical Catalog

Best in Class Infrastructure Solutions for Industrial Construction, MRO and OEM

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PANDUIT®

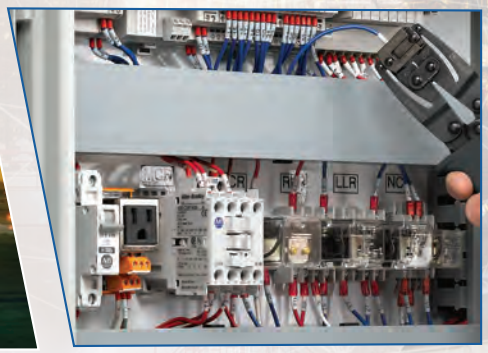












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Table of Contents

A. System Overview

B. Bundle
- 1. Cable Ties
- 2. Cable Accessories
- 3. Stainless Steel Cable Ties and Accessories

C. Route/Protect
- 1. Wiring Duct
- 2. Surface Raceway
- 3. Abrasion Protection
- 4. Cable Management

D. Terminate
- 1. Terminals
- 2. Power Connectors
- 3. Grounding Connectors

E. Identification and Safety Solutions
- 1. Labeling Systems
- 2. Labels
- 3. Pre-Printed and Write-On Markers
- 4. Permanent Identification
- 5. Industrial and Safety Solutions

F. Keystone Cabling Systems

G. Industrial Networks

H. Part Number Index

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Notes

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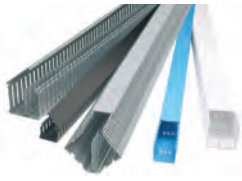
System Overview

Panduit® is a world-class provider of engineered, flexible, end-to-end electrical infrastructure solutions that provide businesses with the ability to keep pace with a connected world. Our robust partner ecosystem, global staff, unmatched service and support make Panduit a valuable and trusted partner.

- **Proven QUALITY performance:** Time and again, customers trust Panduit for reliable cabling and infrastructure products
- **Subject matter EXPERTISE:** Our engineers know the standards and specifications of your industry so you don't have to; the products they develop meet or exceed requirements to ensure you get the best and most reliable results possible
- **Customer-driven INNOVATION:** At Panduit, we research, prototype, test, and develop practical solutions for the real electrical infrastructure problems you face; by choosing Panduit, you get a partner with the available products you need now, and the know-how to solve future challenges before they disrupt your system

To help assure optimum quality, Panduit products are designed and manufactured to meet applicable environmental, safety, market industry and customer standards including ROHS, UL, CSA, CE, ISO….detailed compliance information is found throughout this catalog.







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Applications and Market Solutions



Oil and Gas/Chemical

The world's appetite for energy grows every day, and oil and gas are still the best options for meeting global demand. Faced with the need to explore in challenging locations, integrate new oil sands and shale capabilities, meet updated safety protocols, and identify new technologies to handle remote environments, energy producers are looking for partners who can help them keep up with changing business conditions and goals.

Mining and Minerals

As the global demand on natural resources continues to increase, efficiency and productivity requirements are pushing all mining systems and components to the limit. Site and operator safety are also extremely important as exposure to harsh chemicals, abrasive environments, and extreme temperature conditions are consistently present in this hectic environment.





Industrial Water/ Wastewater Treatment

Water treatment facilities are critical for maintaining public sanitation and a healthy environment. Whether the facility treats industrial and residential wastewater to remove impurities, or treats fresh water for consumption, these facilities rely on robust solutions for dependable continuous operation within harsh environments.

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Applications and Market Solutions



Pulp and Paper

From sawmill operations through the manufacturing of the final wood and paper, the pulp, paper and wood industry comprises over 3,500 operational plants worldwide. The pulping process occurs in a harsh environment and is exposed to high cooking temperatures and a variety of chemicals that require high quality of maintenance, repair and operation products to protect people and infrastructure to ultimately eliminate downtime and improve productivity.

Shipbuilding

Shipbuilders focusing on ultimate reliability and safety while facing constant cost containment pressures, are looking into ways to increase productivity, minimize unscheduled maintenance, and extend global availability and lower overhead expenses.





Food and Beverage

Food and beverage manufacturers are faced with countless product safety, quality and manufacturing challenges. Maximizing productivity while reducing downtime requires a robust integrated electrical infrastructure that can deliver optimum productivity, reliability and profitability.

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Applications and Market Solutions



Harsh Environments

When vibration, weathering, corrosion, and temperature extremes are a factor, you need a high quality, reliable, and durable solution. Panduit® provides everything necessary to bundle, route, protect, terminate, and identify electrical cable, wire harnesses, and hoses in indoor and outdoor extreme conditions. These innovative solutions meet the needs of the most demanding harsh and industrial environment applications to deliver long life, increased productivity, and improved worker safety.

Transportation

Panduit develops high-quality products to meet the requirements of the transportation market while providing the lowest installed cost. Performance, reliability, efficiency, regulatory approvals and availability are critical issues to success. Panduit solutions are designed to hold up under high temperatures, vibration, shock, and exposure to nature's elements while preventing corrosion, reducing weight, complying with market standards and speeding installation.

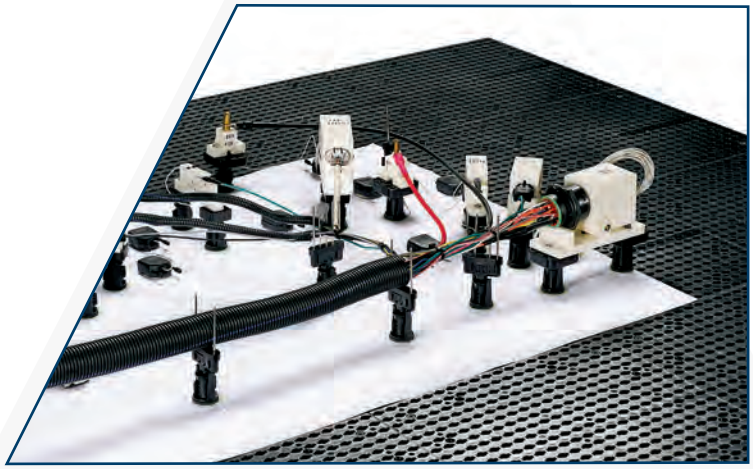


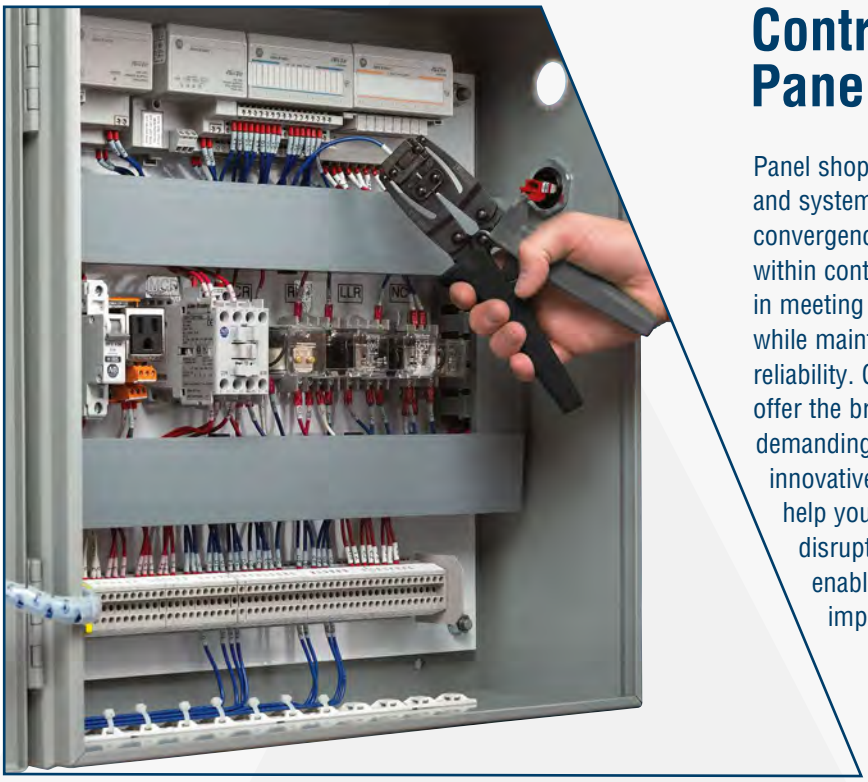
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Applications and Market Solutions

Wire Harness

Intense global competition and increasing operational expenses are pressuring contract manufacturers and original equipment manufacturers to speed production and control costs without compromising quality, system availability, and reliability. Wire harness solutions from Panduit® offer the broadest range of options for the most demanding requirements and applications. Through innovative product systems and services, we help you increase your productivity, reduce your installation costs, and improve reliability.





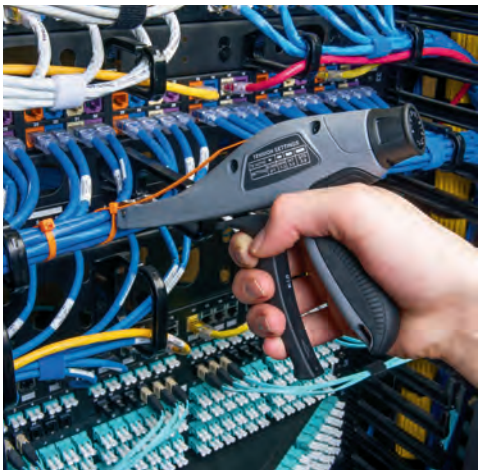
Control Cabinet/ Panel Builders

Panel shops, engineering firms, machine builders, and system integrators are dealing with the convergence of high/low voltage and network cabling within control panels. This trend creates challenges in meeting production schedules, controlling costs, while maintaining quality, system availability, and reliability. Control panel solutions from Panduit offer the broadest range of options for the most demanding requirements and applications. Through innovative product systems and services we help you save valuable panel space, mitigate disruptions due to electrical/mechanical noise, enable and future proof your network, and improve reliability.

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Cable Ties

Panduit® offers the most complete selection of cable tie styles, sizes, materials and colors to meet our customers' needs. Panduit cable ties bundle, mount, and identify in countless indoor, outdoor, and harsh environment applications. Panduit cable ties, wiring accessories, and installation tools allow our customers to achieve the lowest total installed cost of managing wire and cable.

- **Panduit continues to provide innovative new cable tie designs to meet our customers' application challenges**
- **Panduit cable ties and wiring accessories can be used in a variety of applications and environments, providing the optimal wire management solution**
- **Panduit offers a large selection of ergonomic cable tie installation tools – all with consistent, and reliable performance**

Panduit leads the industry in the breadth and depth of available cable tie designs created from customer feedback on their application requirements. As with all Panduit products, quality in design and production along with customer service excellence are assured.

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Cable Tie Selection Chart

Follow this step-by-step process to find the cable ties that best suit your application:

Cable Tie Function

1) Select the main function of the cable tie you need:
Bundle = Standard Cable Ties
Re-use = Nylon Releasable Ties*
Identify = Marker and Flag Ties
Mount = Clamp Ties, Push Mount Ties, and Stud Mount Ties

Material Properties

2) Determine the appropriate material for your application:
Mechanical
Chemical
Thermal

Cable Tie Family

3) Select the cable tie family that meets your overall needs

	Cable Tie Function		Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Mount	Bundle, Re-use, Mount	Bundle	Bundle
	Material	Test Method	Nylon 6.6	Weather Resistant Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6
	Color	—	Natural	Black	Black	Black	Natural	Black
	Part Number Suffix (Material Designation)	—	No Suffix	0	0	30	39	300
Mechanical Properties	Tensile @ Yield @ 73°F (psi)	ISO 527	12,000	12,000	9,700	12,000	12,000	12,000
	Water Absorption (24 Hours)	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%
	Radiation Resistance (Rads)	—	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5
	Weathering Life Expectancy (Years)/UV Resistance	—	1 – 2	7 – 9	7 – 9	4 – 5	1 – 2	7 – 9
	Impact Resistance	—	○	○	◓	○	○	○
Chemical Resistance	Salts	—	◒	◒	◒	◒	◒	◒
	Hydrocarbons (Gas, Oil, Lubricants)	—	●	●	●	●	●	●
	Chlorinated Hydrocarbons	—	◓	◓	◓	◓	◓	◓
	Acids	—	●	●	●	●	●	●
	Bases	—	◓	◓	◓	◓	◓	◓
	Acid Rain	—	◒	◒	◒	◒	◒	◒
Thermal Properties	Continuous Use Temperature Range	UL 746B	-76°F - 185°F -60°C - 85°C	-76°F - 185°F -60°C - 85°C	-76°F - 185°F -60°C - 85°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C
	Minimum Installation Temperature	UL 62275	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)
	Flammability Rating	UL 94	V-2	V-2	V-2	V-2	V-2	V-2
	Low Smoke	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS
	Oxygen Index	BS ISO 4589	28	28	—	28	28	28
	Halogen-Free	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes
	Burning Fume Toxicity	BSS-7239	PASS	PASS	PASS	PASS	PASS	PASS
	Heat Deflection Temperature @ 1.8 Mpa	ASTM D648 ISO 75 -1/-2	158°F 70°C	158°F 70°C	145°F 63°C	158°F 70°C	158°F 70°C	158°F 70°C
	Relative Price	—	Low	Low	Low	Low	Low	Med

Cable Tie Catalog Page	Product Line			Cross Sections				
	Pan-Ty®		✓	SM, M, I, S	LH, H, EH	✓	✓	✓
	Super-Grip® (B1.38)		✓	M, I, S, LH	H	✓		
	Dome-Top® Barb Ty (B1.43)		✓	M, I, S	LH	✓	✓	✓
	Dura-Ty™ (B1.53)							
	Parallel-Entry (B1.56)		✓	M, I, S, HS	LH	✓	✓	
	Sta-Strap® (B1. 65)		✓	M, I, S, H		✓		
	Specialty Ties (B1.73)		✓		H	✓		✓

Check mark indicates material availability in that product line.
Cross Sections: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.
*For information on re-usable Hook and Loop Cable Ties, see page B1.81.

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Recommendation Legend	Highest	High	Acceptable	Low	Lowest
	●	◒	○	◒	●

Bundle	Bundle, Identify	Bundle	Bundle	Bundle, Re-use	Bundle	Bundle	Bundle	Bundle	Bundle	Bundle
Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 12	Polypropylene	Weather Resistant Polypropylene	TEFZEL■	HALAR▲	PEEK	Metal Detectable Nylon 6.6	Metal Detectable Polypropylene	Weather Resistant Acetal
Black	Natural Ivory	Black	Green	Black	Aqua Blue	Maroon	Brown	Blue	Blue	Black
60	69	120	109	100	76	702Y	71	86	186	N/A
11,000	11,000	6,700	4,100	4,100	7,500	7,000	15,200	—	—	6,500
1.1%	1.1%	0.3%	0.1%	0.1%	<0.03%	<0.05%	0.5%	1.2%	0.1%	<0.45%
1×10^5	1×10^5	3.5×10^6	1×10^6	1×10^6	2×10^8	2×10^8	1×10^9	—	1×10^6	6×10^5
1 – 2	1 – 2	12 – 15	1	7 – 9	>15	>15	—	—	1	>20
◒	◒	○	◒	◒	●	●	●	○	◒	◒
									●	
●	●	●	○	○	●	●	●	●	○	●
									○	
●	●	○	●	●	●	●	○	●	●	●
									●	
◒	◒	◒	●	●	●	●	◒	—	●	◒
-76°F - 212°F -60°C - 100°C	-76°F - 212°F -60°C - 100°C	-76°F - 194°F -60°C - 90°C	-76°F - 239°F -60°C - 115°C	-76°F - 239°F -60°C - 115°C	-76°F - 338°F -60°C - 170°C	-76°F - 257°F -60°C - 125°C	-76°F - 500°F -60°C - 260°C	-76°F - 185°F -60°C - 85°C	-76°F - 239°F -60°C - 115°C	-76°F - 185°F -60°C - 85°C
-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 2)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)	-4°F or +32°F -20°C or 0°C (Note 1)
V-0	V-0	HB	HB	HB	V-0	V-0	V-0	HB	HB	HB
PASS	PASS	—	—	—	—	—	PASS	—	—	PASS
34	34	—	—	—	30	52	35	—	—	—
Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
PASS	PASS	—	—	—	—	—	—	—	—	—
154°F 68°C	154°F 68°C	122°F 50°C	122°F 50°C	122°F 50°C	—	149°F 65°C	313°F 156°C	145°F 63°C	122°F 50°C	239°F 115°C
Med	Med	Med	Med	Med	High	High	High	Low	Med	Med
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓									
										✓
	✓									

Note 1: Check UL file for the specific part number rating
Note 2: Based upon UL RTI for electrical properties
■ TEFZEL is a registered trademark of The Chemours Company ▲ HALAR is a registered trademark of Solvay Solexis

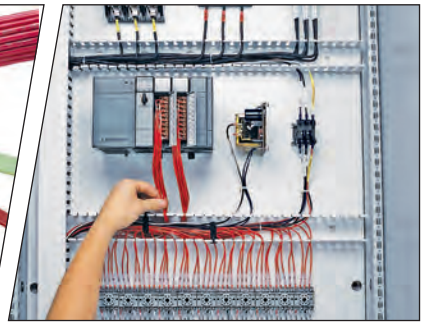
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Cable Tie Styles Overview

Pan-Ty® Cable Ties

Pages B1.6 – B1.35





- Designed for use in numerous applications to meet a variety of needs in the OEM, MRO, and construction markets
- Largest selection of styles, materials, and sizes
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry

Super-Grip® Cable Ties

Pages B1.36 – B1.40





- Designed for the strength requirements of the MRO and construction markets
- Thin, wide strap body – flexible, conforms to bundles
- Strong – withstands rough installation practices
- Grips wires tightly and resists lateral movement

Dome-Top® Barb Ty Cable Ties

Pages B1.41 – B1.53





- Approved for the demanding MRO and construction requirements as typified in the oil and gas markets
- Stainless steel barb provides consistent performance and reliability
- Infinitely adjustable for tight bundles throughout entire bundle range
- Dome-top head features unique patented design with smooth, round edges

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Cable Tie Styles Overview (continued)

Parallel-Entry Cable Ties

Pages B1.54 – B1.62





- Designed for use in the OEM and transportation markets
- All parallel-entry ties provide a low profile head which avoids snags and reduces overall bundle size
- No protrusion of tie cut-off – protects workers' arms/hands
- Contour-Ty® Cable Ties have outside teeth and smooth, round edges to protect cable jacket – perfect for high vibration applications

Sta-Strap® Cable Ties

Pages B1.63 – B1.69





- Convenient and easy to use in OEM manual assembly operations
- Exclusive, two-piece design provides lowest threading force in the industry
- Use for normal bundling and through-panel applications
- Releasable prior to final tensioning and cut-off

Network Cable Ties

Pages B1.81 – B1.88



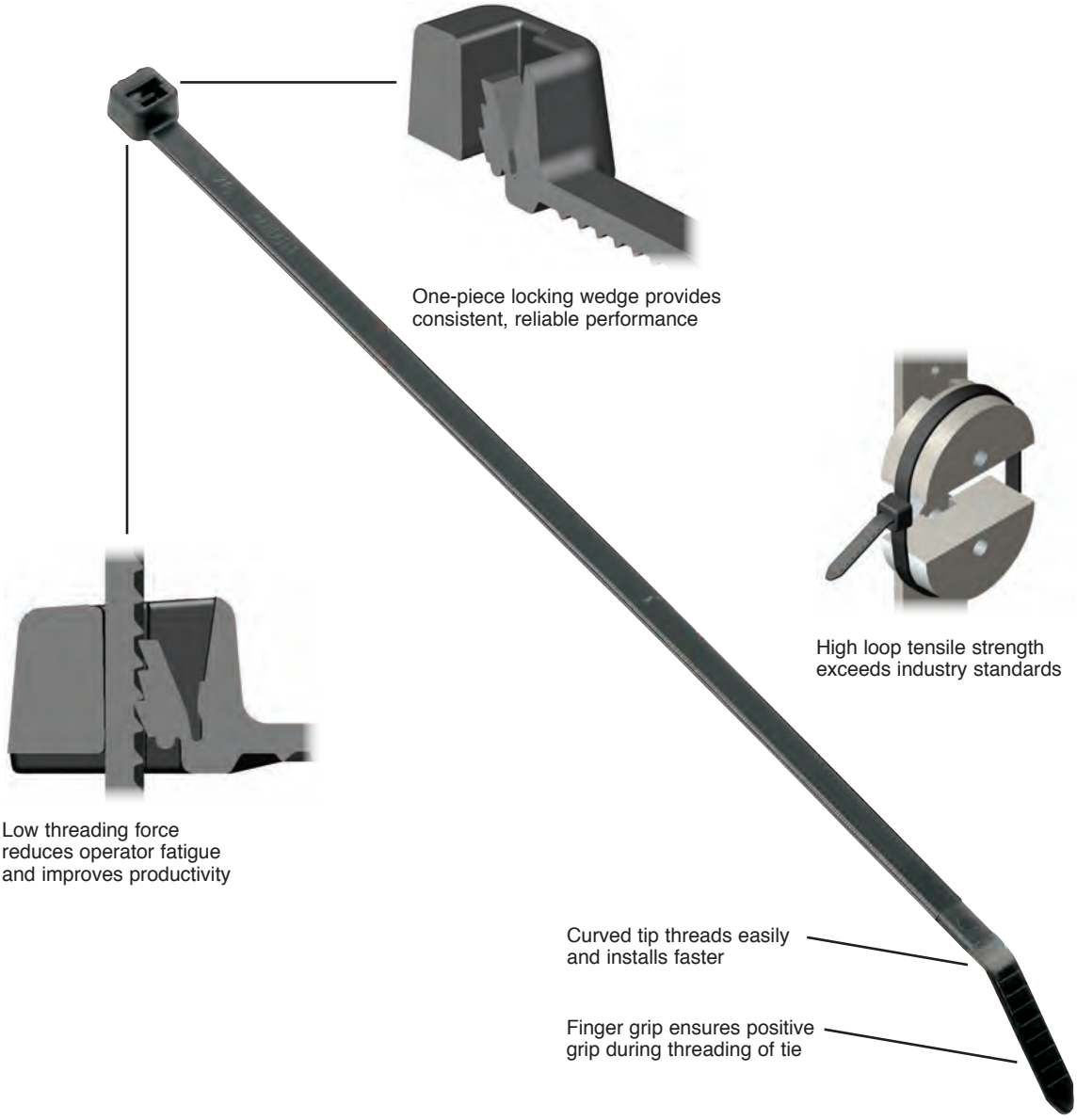


- Ideal for the telecommunications, financial, education, and government markets
- Adjustable, releasable, and re-usable
- No risk of over-tensioning or damaging high performance network cables
- Variety of styles, sizes, and colors

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Features and Benefits – Pan-Ty® Cable Ties

One-piece design for consistent performance and reliability.
Available in lengths from 2.8 to 43.3 inches and a variety of styles, materials, and colors for specific applications.





Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.1 – B2.26.

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Selection Guide – Pan-Ty® Cable Ties



Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	PLT	B1.8, 9
	Releasable Ties/Re-usable	PRT	B1.20
	Clamp Ties/Mount	PLC	B1.24
	Push Mount Ties/Mount	PLWP, PRWP, PLUP, PLP	B1.26, 28, 31
	Marker Ties/Identify	PLF, PLM	B1.32
Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	PLT	B1.10, 11
	Releasable Ties/Re-usable	PRT	B1.21, 22
	Clamp Ties/Mount	PLC	B1.25
	Push Mount Ties/Mount	PLWP, PRWP, PLUP, PLP	B1.27 – B1.31
	Marker Ties/Identify	PLF, PLM	B1.32
Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	PLT	B1.12
	Releasable Ties/Re-usable	PRT	B1.21, 22
	Clamp Ties/Mount	PLC	B1.25
	Push Mount Ties/Mount	PLWP, PRLWP, PRWP, PLUP, PLP	B1.27 – B1.31
Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	Locking Ties/Bundle	PLT	B1.13
Heat Stabilized Nylon 6.6, Natural (39)	Locking Ties/Bundle	PLT	B1.12
Flame Retardant Nylon 6.6, Black (60)	Locking Ties/Bundle	PLT	B1.14
Flame Retardant Nylon 6.6, Ivory (69)	Locking Ties/Bundle	PLT	B1.14
	Marker Ties/Identify	PLF, PLM	B1.32
Weather Resistant Nylon 12, Black (120)	Locking Ties/Bundle	PLT	B1.15
Polypropylene, Green (109)	Locking Ties/Bundle	PLT	B1.15
Weather Resistant Polypropylene, Black (100)	Locking Ties/Bundle	PLT	B1.16
	Releasable Ties/Re-usable	PRT	B1.23
HALAR▲, Maroon (702Y) TEFZEL■, Aqua Blue (76)	Locking Ties/Bundle	PLT	B1.16, 17
PEEK, Translucent Brown (71)	Locking Ties/Bundle	PLT	B1.18
Metal Detectable, Blue (86, 186)	Locking Ties/Bundle	PLT	B1.19

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Part Number System for Pan-Ty® Cable Ties

PLT **2** **S** — **C**

Type

PLT = Locking Tie
PRT = Releasable Tie
PLC = Locking Clamp
PLF = Locking Flag
PLM = Locking Marker
PLP = Locking Push Mount
PLWP = Locking Wing Push Mount
PRLWP = Releasable Ladder Wing Push Mount
PRWP = Releasable Wing Push Mount
PLUP = Locking Umbrella Push Mount

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

SM = Subminiature
M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
H = Heavy
EH = Extra-Heavy

Screw Hole Size

(Clamp Ties Only)
-S4 = #4 (M2.5)
-S6 = #6 (M3)
-S8 = #8 (M4)
-S10 = #10 (M5)
-S25 = 1/4 (M6)

Package Size

Q = 25
L = 50
C = 100
TL = 250
D = 500
M = 1000
VMR = 2 reels/2500 ea.
XMR = 2 reels/5000 ea.

Material/Color

See Page B1.33

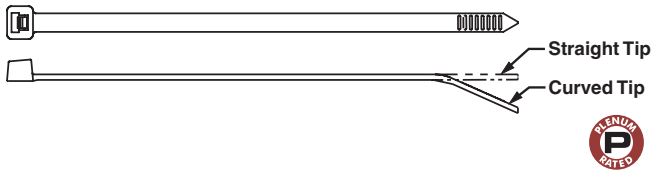
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Pan-Ty® Cable Ties – Nylon 6.6

- For indoor use
- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- A variety of materials and colors available for specific applications
- UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM and PLT5H/6H/8H/13H







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Subminiature Cross Section													
PLT.6SM-C	2.8	71	0.070	1.8	0.030	0.8	0.60	15	8	36	GTS-E, PTS	100	1000
Miniature Cross Section – Plenum Rated													
PLT.7M-C	3.1	79	0.090	2.3	0.032	0.8	0.68	17	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLT1M-C	3.9	99	0.098	2.5	0.043	1.1	0.87	22					
PLT1.5M-C	5.6	142	0.098	2.5	0.043	1.1	1.25	32	18	80			
PLT2M-C	8.0	203	0.098	2.5	0.043	1.1	2.00	51					
Intermediate Cross Section – Plenum Rated													
PLT1.5I-C	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLT2I-C	8.0	203	0.142	3.6	0.045	1.1	2.00	51					
PLT2.5I-C	9.7	246	0.145	3.7	0.052	1.3	2.50	64	40	178			
PLT3I-C	11.4	290	0.145	3.7	0.052	1.3	3.00	76					
PLT4I-C	14.5	368	0.145	3.7	0.052	1.3	4.00	102					
Standard Cross Section – Plenum Rated UL TYPE 2S Rated													
PLT1S-C	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PPTS, PTH, STS2, STH2	100	1000
PLT1.5S-C	6.2	157	0.190	4.8	0.052	1.3	1.50	38					
PLT2S-C	7.4	188	0.190	4.8	0.052	1.3	1.88	48					
PLT2.5S-C	9.8	249	0.190	4.8	0.052	1.3	2.50	64	50	222		100	1000
PLT3S-C	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PLT4S-C	14.5	368	0.190	4.8	0.052	1.3	4.00	102					
PLT4.5S-C	15.5	394	0.190	4.8	0.052	1.3	4.50	114					
PLT5S-C	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		100	500
Light-Heavy Cross Section (Straight Tip) – Plenum Rated													
PLT2H-L	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLT2.5H-L	9.8	251	0.300	7.6	0.075	1.9	2.50	64					
PLT3H-L	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PLT4H-L	14.5	368	0.300	7.6	0.075	1.9	4.00	102					
PLT6LH-L	21.9	556	0.300	7.6	0.075	1.9	6.00	152	120	534		50	500
PLT7LH-L	24.7	627	0.300	7.6	0.075	1.9	7.00	178					
PLT8LH-L	27.6	701	0.300	7.6	0.075	1.9	8.00	203					
PLT9LH-L*	30.5	775	0.300	7.6	0.075	1.9	9.00	229					
PLT10LH-L*	34.3	871	0.300	7.6	0.075	1.9	10.31	262	120	534		50	1000
Heavy Cross Section (Straight Tip)													
PLT5H-L*	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLT6H-L*	20.9	530	0.350	8.9	0.078	2.0	6.00	152					
PLT8H-L*	30.6	779	0.350	8.9	0.078	2.0	9.00	229					
PLT13H-Q*	43.3	1100	0.350	8.9	0.078	2.0	13.00	330	175	778		25	500

*UL Listed – meets the requirements of UL 181B-C, for securing UL Listed non-metallic air ducts and air connectors.

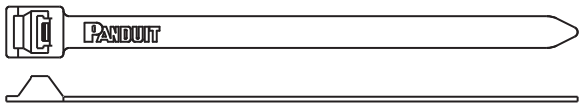
Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Lashing Ties – Nylon 6.6

- For indoor use
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip, see page B1.22
- UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM and PLT5H/6H/8H/13H





Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Extra-Heavy Cross Section – Plenum Rated													
PLT2EH-C	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	GS4EH-E, ST3EH	100	1000
PLT5EH-Q	20.1	511	0.500	12.7	0.075	1.9	5.00	127	250	1112		25	250
PLT6EH-Q	22.2	564	0.500	12.7	0.075	1.9	6.00	152					
PLT8EH-C	28.3	719	0.500	12.7	0.085	2.2	8.00	203	250	1112		100	1000
PLT10EH-C	34.2	869	0.500	12.7	0.085	2.2	10.00	254	250	1112		100	500
PLT12EH-C	40.1	1019	0.500	12.7	0.085	2.2	12.00	305					

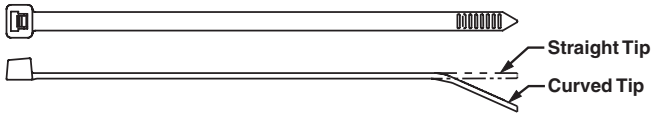
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Pan-Ty® Cable Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM and PLT5H/6H/8H/13H







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Subminiature Cross Section													
PLT.6SM-C0	2.8	71	0.070	1.8	0.030	0.8	0.60	15	8	36	GTS-E, PTS	100	1000
Miniature Cross Section NEW! **Plenum Rated**													
PLT.7M-M0	3.1	79	0.090	2.3	0.032	0.8	0.68	17	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
PLT1M-C0	3.9	99	0.098	2.5	0.043	1.1	.87	22	18	80		100	1000
PLT1.5M-C0	5.6	142	0.098	2.5	0.043	1.1	1.25	32					
PLT2M-C0	8.0	203	0.098	2.5	0.043	1.1	2.00	51					
Intermediate Cross Section NEW! **Plenum Rated**													
PLT1.5I-C0	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLT2I-C0	8.0	203	0.142	3.6	0.045	1.1	2.00	51					
PLT2.5I-C0	9.7	246	0.145	3.7	0.052	1.3	2.50	64					
PLT3I-C0	11.4	290	0.145	3.7	0.052	1.3	3.00	76					
PLT4I-C0	14.5	368	0.145	3.7	0.052	1.3	4.00	102					
Standard Cross Section NEW! **Plenum Rated**													
PLT1S-C0	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PPTS, PTH, STS2, STH2	100	1000
PLT1.5S-C0	6.2	157	0.190	4.8	0.052	1.3	1.50	38					
PLT2S-C0	7.4	188	0.190	4.8	0.052	1.3	1.88	48					
PLT2.5S-C0	9.8	249	0.190	4.8	0.052	1.3	2.50	64					
PLT3S-C0	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PLT4S-C0	14.5	368	0.190	4.8	0.052	1.3	4.00	102					
PLT4.5S-C0	15.5	394	0.190	4.8	0.052	1.3	4.50	114					
PLT5S-C0	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		100	500
Light-Heavy Cross Section (Straight Tip) NEW! **Plenum Rated**													
PLT2H-L0	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLT2.5H-L0	9.8	251	0.300	7.6	0.075	1.9	2.50	64					
PLT3H-L0	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PLT4H-L0	14.5	368	0.300	7.6	0.075	1.9	4.00	102					
PLT4H-TL0/147	14.5	368	0.300	7.6	0.060	1.5	4.11	104.5	120	534		250	2500
PLT6LH-L0	21.9	556	0.300	7.6	0.075	1.9	6.00	152	120	534		50	500
PLT7LH-L0	24.7	627	0.300	7.6	0.075	1.9	7.00	178					
PLT8LH-L0	27.6	701	0.300	7.6	0.075	1.9	8.00	203					
PLT9LH-L0	30.5	775	0.300	7.6	0.075	1.9	9.00	229					
Heavy Cross Section (Straight Tip)													
PLT5H-L0	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLT6H-L0	20.9	530	0.350	8.9	0.078	2.0	6.00	152					
PLT8H-L0	30.6	779	0.350	8.9	0.078	2.0	9.00	229					
PLT13H-Q0	43.3	1100	0.350	8.9	0.078	2.0	13.00	330	175	778		25	500

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Lashing Ties – Weather Resistant Nylon 6.6

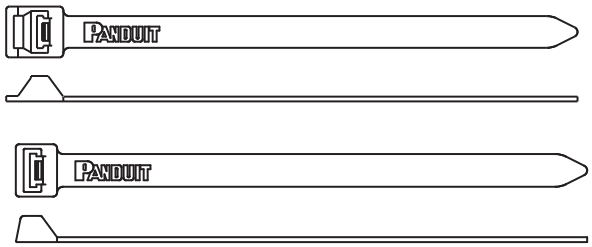
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip, shown below



Lashing Tie



No Buckle Design

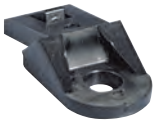


Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Extra-Heavy Cross Section													
PLT2EH-Q0	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	GS4EH-E, ST3EH	25	250
PLT5EH-Q0	20.1	511	0.500	12.7	0.075	1.9	5.00	127					
PLT6EH-Q0	22.2	564	0.500	12.7	0.075	1.9	6.00	152					
PLT8EH-Q0	28.3	719	0.500	12.7	0.085	2.2	8.00	203					
PLT10EH-Q0	34.2	869	0.500	12.7	0.085	2.2	10.00	254					
PLT12EH-Q0	40.1	1019	0.500	12.7	0.085	2.2	12.00	305					
Extra-Heavy Cross Section (No Buckle Design)													
PLT3EH-NB-C0	12.2	310	0.500	12.7	0.075	1.9	3.30	84	250	1112	GS4EH-E, ST3EH	100	1000
PLT5EH-NB-C0	19.8	503	0.500	12.7	0.075	1.9	5.00	127					
PLT6EH-NB-C0	21.8	554	0.500	12.7	0.075	1.9	6.00	152					

Note: UL Recognized and CSA Certified except the No Buckle Design

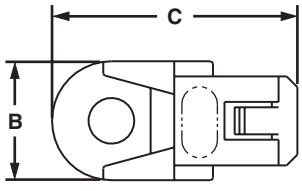
Lashing Tie Mounting Clip – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Converts Panduit® lashing ties into clamps
- Easily snaps in place for a secure clamp
- Use with lashing ties shown on pages B1.9, B1.11, B1.20, B1.22 and B1.23









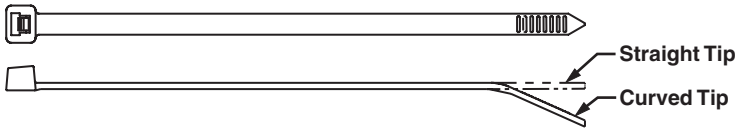
Part Number	Height A In.	Height A mm	Width B In.	Width B mm	Length C In.	Length C mm	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
MCEH-S25-C0	0.13	3.3	0.67	17.0	1.38	35	1/4" (M6) screw (not flathead)	100	1000

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Pan-Ty® Cable Ties – Heat Stabilized Nylon 6.6

- For high temperature applications up to 239°F (115°C) – indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Subminiature Cross Section													
PLT.6SM-M30	2.8	71	0.070	1.8	0.030	0.8	.60	15	8	36	GTS-E, PTS	1000	50000
Miniature Cross Section													
PLT.7M-M30	3.1	79	0.090	2.3	0.032	0.8	.68	17	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
PLT1M-C30	3.9	99	0.098	2.5	0.043	1.1	.87	22	18	80		100	1000
PLT1.5M-M30	5.6	142	0.098	2.5	0.043	1.1	1.25	32	18	80		1000	50000
PLT2M-M30	8.0	203	0.098	2.5	0.043	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
PLT1.5I-C30	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLT2I-C30	8.0	203	0.142	3.6	0.045	1.1	2.00	51					
PLT3I-M30	11.4	290	0.145	3.7	0.052	1.3	3.00	76	40	178		1000	10000
PLT4I-M30	14.5	368	0.145	3.7	0.052	1.3	4.00	102					
Standard Cross Section													
PLT1S-M30	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PPTS, PTH, STS2, STH2	1000	10000
PLT1.5S-M30	6.2	157	0.190	4.8	0.052	1.3	1.50	38					
PLT2S-C30	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		100	1000
PLT2S-M39*	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222		1000	10000
PLT2.5S-M30	9.8	249	0.190	4.8	0.052	1.3	2.50	64					
PLT3S-C30	11.5	292	0.190	4.8	0.052	1.3	3.00	76	50	222		100	1000
PLT4S-C30	14.5	368	0.190	4.8	0.052	1.3	4.00	102					
PLT5S-M30	17.5	445	0.190	4.8	0.052	1.3	5.00	127	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL30	8.1	206	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLT3H-TL30	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PLT4H-TL30	14.5	368	0.300	7.6	0.075	1.9	4.00	102					
PLT4H-TL30/147	14.5	368	0.300	7.6	0.060	1.5	4.11	104.5					
PLT7LH-C30	24.7	627	0.300	7.6	0.075	1.9	7.00	178	120	534		100	2000
PLT9LH-C30	30.5	775	0.300	7.6	0.075	1.9	9.00	229	120	534		100	1000
Heavy Cross Section (Straight Tip)													
PLT5H-C30	17.7	450	0.350	8.9	0.078	2.0	5.00	127	175	778	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	100	2000
PLT6H-C30	20.9	530	0.350	8.9	0.078	2.0	6.00	152					
PLT8H-C30	30.6	779	0.350	8.9	0.078	2.0	9.00	229	175	778		100	1500

*Natural heat stabilized material (39).

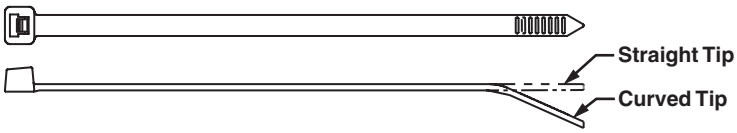
Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Cable Ties – Heat Stabilized Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light and for high temperature applications up to 239°F (115°C) – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





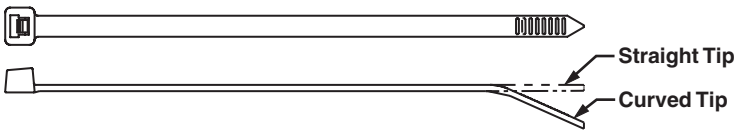
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section NEW! **Plenum Rated**													
PLT1M-M300	3.9	99	0.098	2.5	0.035	0.9	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section NEW! **Plenum Rated**													
PLT1.5I-M300	5.6	142	0.142	3.6	0.045	1.1	1.38	35	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
PLT2I-M300	8.0	203	0.142	3.6	0.045	1.1	2.00	51					
Standard Cross Section NEW! **Plenum Rated**													
PLT1S-M300	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT2S-M300	7.4	188	0.190	4.8	0.052	1.3	1.88	48					
PLT4S-M300	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip) NEW! **Plenum Rated**													
PLT2H-TL300	8.4	213	0.300	7.6	0.075	1.9	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLT4H-TL300	14.5	368	0.300	7.6	0.075	1.9	4.00	102					

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Pan-Ty® Cable Ties – Flame Retardant Nylon 6.6

- Flammability rating of UL 94V-0 – indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





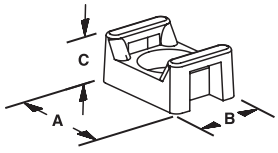
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section													
PLT1M-M60*	4.0	102	0.098	2.5	0.043	1.1	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
PLT1M-M69													
PLT2M-M69	8.0	203	0.098	2.5	0.043	1.1	2.00	51					
Intermediate Cross Section													
PLT1.5I-M69	5.6	142	0.142	3.6	0.044	1.1	1.38	35	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
PLT2I-M69	8.0	203	0.142	3.6	0.044	1.1	2.00	51					
Standard Cross Section													
PLT2S-M60*	7.4	188	0.190	4.8	0.052	1.3	1.88	48	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT2S-M69													
PLT4S-M69	14.5	368	0.190	4.8	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT4H-TL69	14.6	371	0.300	7.6	0.075	1.9	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

*Black flame retardant material (60).

Cable Tie Mounts – Flame Retardant Nylon 6.6

- Flammability rating of UL 94V-0 – indoor use
- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface





Part Number	Used with Cable Ties*	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Counterbore Diameter Lbs.	Counterbore Diameter N	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM1S4-M69	M	0.51	13.0	0.32	8.0	0.23	5.8	0.23	5.7	#4 (M2.5) Screw	1000	5000
TM1S6-M69	M	0.51	13.0	0.32	8.0	0.23	5.8	0.28	7.0	#6 (M3) Screw		
TM2S6-M69	M, I, S	0.63	16.0	0.43	10.8	0.28	7.0	0.29	7.1	#6 (M3) Screw		
TM2S8-M69	M, I, S	0.63	16.0	0.43	10.8	0.28	7.0	0.33	8.4	#8 (M4) Screw		
TM3S8-C69	M, I, S, LH	0.86	21.9	0.61	15.5	0.37	9.4	0.32	8.1	#8 (M4) Screw	100	500
TM3S10-M69	M, I, S, LH	0.86	21.9	0.61	15.8	0.37	9.4	0.38	9.7	#10 (M5) Screw	1000	5000

*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard and LH = Light-Heavy.

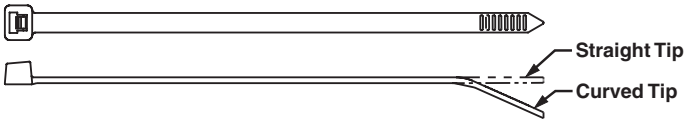
Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Cable Ties – Weather Resistant Nylon 12



- For high moisture, corrosive (zinc chloride and dilute acids), and low temperature indoor or outdoor applications
- Cable tie of choice for making attachments to galvanized surfaces
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

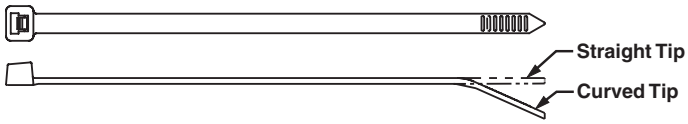


Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Intermediate Cross Section													
PLT1.5I-M120	5.6	142	0.142	3.6	0.045	1.1	1.38	35	25	111	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M120	7.4	188	0.190	4.8	0.052	1.3	1.88	48	40	178	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT4S-M120	14.5	368	0.190	4.8	0.052	1.3	4.00	102	40	178		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT4H-TL120	14.5	368	0.300	7.6	0.075	1.9	4.00	102	90	400	GTH-E, GTSL, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLT8LH-C120	27.6	701	0.300	7.6	0.075	1.9	8.00	203	90	400		100	2500

Pan-Ty® Cable Ties – Polypropylene – Distinctive Green Color



- For chemical resistance where high loop tensile strength is not required especially in the presence of hydrochloric acid, salts, and bases
- For indoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



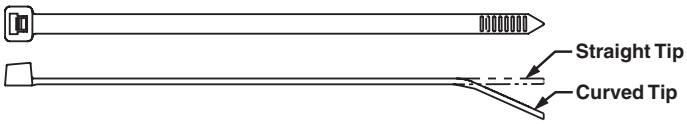
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-M109	3.9	99	0.098	2.5	0.043	1.1	0.87	22	11	49	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
PLT1.5I-M109	5.6	142	0.142	3.6	0.045	1.1	1.38	35	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M109	7.4	188	0.190	4.8	0.052	1.3	1.88	48	30	133	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT3S-M109	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PLT4S-M109	14.5	368	0.190	4.8	0.052	1.3	4.00	102	30	133		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL109	8.1	206	0.300	7.6	0.075	1.9	2.00	51	50	222	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLT3H-TL109	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PLT4H-TL109	14.5	368	0.300	7.6	0.075	1.9	4.00	102					

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Pan-Ty® Cable Ties – Weather Resistant Polypropylene



- For chemical resistance where high loop tensile strength is not required especially in the presence of hydrochloric acid, salts, and bases
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



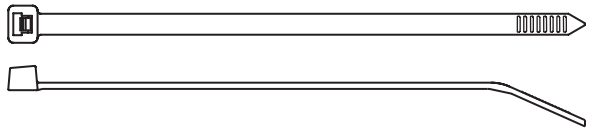
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section													
PLT1M-M100	3.9	99	0.098	2.5	0.043	1.1	0.87	22	11	49	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
PLT1.5I-M100	5.6	142	0.142	3.6	0.045	1.1	1.38	35	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
PLT2S-M100	7.4	188	0.190	4.8	0.052	1.3	1.88	48	30	133	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLT3S-M100	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PLT4S-M100	14.5	368	0.190	4.8	0.052	1.3	4.00	102	30	133		1000	5000
Light-Heavy Cross Section (Straight Tip)													
PLT2H-TL100	8.1	206	0.300	7.6	0.075	1.9	2.00	51	50	222	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLT3H-TL100	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PLT4H-TL100	14.5	368	0.300	7.6	0.075	1.9	4.00	102					

Pan-Ty® Cable Ties – HALAR▲ – Distinctive Maroon Color

- UL Listed for use in plenum or air handling spaces per NEC, Section 300-22 (C) and (D)
- Low smoke density and excellent flammability rating of UL 94V-0
- Commonly accepted solution for bundling qualified cable without conduit in air handling space applications
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Provides primary support for a flexible conduit, flexible tubing, or cable in accordance with the relevant national installation code







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section — Plenum Rated													
PLT1M-C702Y	4.0	102	0.098	2.5	0.043	1.1	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section — Plenum Rated NEW! **UL TYPE 2S Rated**													
PLT2S-C702Y	7.4	188	0.190	4.8	0.055	1.4	1.88	48	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLT3S-C702Y	11.6	295					3.00	76					

▲HALAR is a registered trademark of Solvay Solexis

Order number of pieces required, in multiples of Standard Package Quantity.

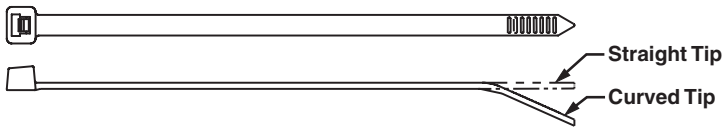
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Pan-Ty® Cable Ties – TEFZEL■ – Distinctive Aqua Blue Color

- Ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation and extreme high and low temperatures
- Ideal for use in nuclear power facilities and chemical processing plants and meets the requirements of IEEE 383
- Low smoke density and excellent flammability rating of UL 94V-0
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- For indoor or outdoor use







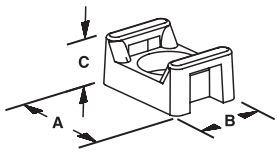
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section													
PLT1M-C76	4.0	102	0.098	2.5	0.043	1.1	.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section													
PLT2I-C76	8.0	203	0.135	3.4	0.045	1.1	2.00	51	30	133	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section													
PLT2S-C76	7.4	188	0.190	4.8	0.055	1.4	1.88	48	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLT3S-C76	11.6	295	0.190	4.8	0.059	1.5	3.00	76					
PLT4S-C76	14.6	371	0.190	4.8	0.059	1.5	4.00	102					
Light-Heavy Cross Section (Straight Tip)													
PLT3H-L76	11.5	292	0.300	7.6	0.075	1.9	3.00	78	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLT4H-L76	14.6	371	0.300	7.6	0.075	1.9	4.00	102					

■TEFZEL is a registered trademark of The Chemours Company.

Cable Tie Mounts – TEFZEL■

- Flammability rating of UL 94V-0 – indoor use
- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface





Part Number	Used with Cable Ties*	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Counterbore Diameter In.	Counterbore Diameter mm	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM2S8-C76	M, I, S	0.63	16.0	0.43	10.8	0.28	7.0	0.30	7.6	#8 (M4) screw	100	500
TM3S8-C76	S, LH	0.86	21.7	0.62	15.5	0.38	9.5	0.37	9.4	#8 (M4) screw		
TM3S10-C76	S, LH	0.86	21.7	0.62	15.8	0.38	9.5	0.37	9.4	#10 (M5) screw		

*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy.
■TEFZEL is a registered trademark of The Chemours Company.

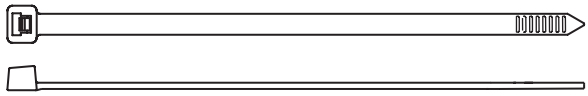
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Pan-Ty® Cable Ties – PEEK (Polyetheretherketone)

- Ideal for harsh environments where a cable tie material is required to hold up to chemical or radiation exposure
- Non-conductive material that is excellent for high temperature applications up to 500°F (260°C)
- High strength properties over a wide range of temperatures
- Flammability rating of UL 94V-0 with low smoke and toxicity; halogen-free
- PEEK material meets MIL specification MIL-P-46183, and is approved for use by the Department of Defense
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry





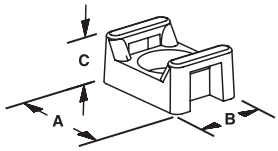


Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
PLT1M-C71	4.0	102	0.098	2.5	0.048	1.2	0.87	22	35	156	GTS-E, PTS	100	1000
PLT1.5M-C71	5.9	150	0.098	2.5	0.048	1.2	1.38	35					
Standard Cross Section													
PLT2S-C71	7.4	188	0.190	4.8	0.055	1.4	1.88	48	150	668	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000

Cable Tie Mount – PEEK (Polyetheretherketone)

- Unique cradle design provides maximum stability for cable bundle
- Low profile design keeps bundle close to mounting surface where overhead space is limited





Part Number	Used with Cable Ties*	A Length In. mm	B Width In. mm	C Height In. mm	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM2S8-C71	Min., Std.	0.636 (16.2)	0.427 (10.8)	0.278 (7.1)	0.335 (8.5)	#8 (M4) screw	100	500

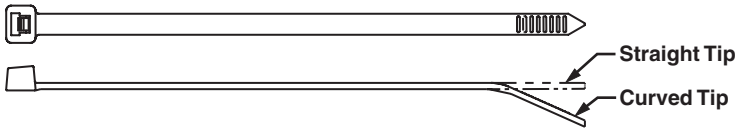
Order number of pieces required, in multiples of Standard Package Quantity.

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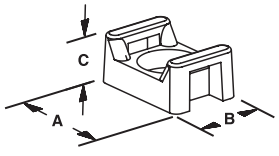
Pan-Ty® Cable Ties – Metal Detectable Nylon 6.6 and Polypropylene

- Metal impregnated material allows identification by metal detector inspection equipment to help meet food, beverage, and pharmaceutical safety standards, to help reduce product contamination, loss, and recall
- Nylon material for general purpose maintenance and repair applications; ideal for use in control panels and overhead cable runs
- Polypropylene material provides excellent chemical resistance for use in processing and packaging areas where aggressive acid and alkaline chemicals are use to clean the equipment
- One-piece construction for consistent performance and reliability
- Among the lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Material	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6														
Miniature Cross Section														
PLT1M-C86	3.9	100	0.098	2.5	0.044	1.1	.87	22	18	80	GTS-E, GS2B-E, STS2	Nylon 6.6	100	1000
Intermediate Cross Section														
PLT2I-C86	8.0	203	0.135	3.4	0.047	1.2	2.00	51	30	133	GTS-E, GS2B-E, STS2	Nylon 6.6	100	1000
Standard Cross Section														
PLT2S-C86	7.3	186	0.190	4.8	0.057	1.4	1.85	47	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, STS2, STH2	Nylon 6.6	100	1000
PLT3S-C86	11.5	291	0.190	4.8	0.057	1.4	3.00	76						
PLT4S-C86	14.4	366	0.190	4.8	0.057	1.4	4.00	102						
Light-Heavy Cross Section (Straight Tip)														
PLT3H-L86	11.1	282	0.300	7.6	0.075	1.9	3.00	76	120	534	GTH-E, GS4H-E, GS4EH-E, STH2, ST3EH	Nylon 6.6	50	500
PLT4H-L86	14.4	366	0.300	7.6	0.075	1.9	4.00	102						
Polypropylene														
Miniature Cross Section														
PLT1M-C186	3.9	100	0.098	2.5	0.044	1.1	0.87	22	15	67	GTS-E, GS2B-E, STS2	Polypropylene	100	1000
Intermediate Cross Section														
PLT2I-C186	8.0	203	0.135	3.4	0.047	1.2	2.00	51	18	80	GTS-E, GS2B-E, STS2	Polypropylene	100	1000
Standard Cross Section														
PLT2S-C186	7.3	186	0.190	4.8	0.057	1.4	1.85	47	30	133	GTS-E, GS2B-E, GTH-E, GS4H-E, STS2, STH2	Polypropylene	100	1000
PLT3S-C186	11.5	291	0.190	4.8	0.057	1.4	3.00	76						
PLT4S-C186	14.4	366	0.190	4.8	0.057	1.4	4.00	102						
Light-Heavy Cross Section (Straight Tip)														
PLT3H-L186	11.1	282	0.300	7.6	0.075	1.9	3.00	76	60	267	GTH-E, GS4H-E, GS4EH-E, STH2, ST3EH	Polypropylene	50	500
PLT4H-L186	14.4	366	0.300	7.6	0.075	1.9	4.00	102						



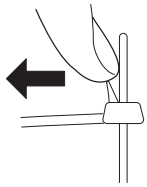
Part Number	Material	Used with Cable Ties*	A Lgth. In. mm	B Width In. mm	C Ht. In. mm	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Cable Tie Mounts									
TM2S8-C86	Nylon 6.6	Min., Int., Std.	0.630 (16.0)	0.422 (10.7)	0.275 (7.0)	0.325 (8.3)	#8 (M4) screw	100	500
TM3S8-C86	Nylon 6.6	Std., Lt. Hvy.	0.867 (22.0)	0.614 (15.6)	0.373 (9.5)	0.325 (8.3)	#8 (M4) screw		
TM3S10-C86							#10 (M5) screw		
TM2S8-C186	Polypropylene	Min., Int., Std.	0.630 (16.0)	0.422 (10.7)	0.275 (7.0)	0.325 (8.3)	#8 (M4) screw		
TM3S8-C186	Polypropylene	Std., Lt. Hvy.	0.867 (22.0)	0.614 (15.6)	0.373 (9.5)	0.325 (8.3)	#8 (M4) screw		
TM3S10-C186							#10 (M5) screw		

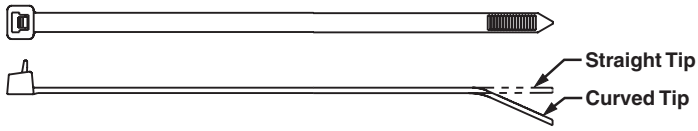
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Pan-Ty® Releasable Cable Ties – Nylon 6.6

- For indoor use
- Extended release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC except PRT2H/3H/4H







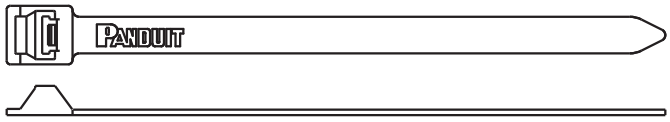
To release, grasp the head of the cable tie, deflect release tab, and pull the cable tie away from the bundle.

Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Standard Cross Section — Plenum Rated UL Type 2S Rated													
PRT1S-C	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	Hand install only	100	1000
PRT1.5S-C	6.3	160	0.190	4.8	0.052	1.3	1.50	38					
PRT2S-C	7.4	188	0.190	4.8	0.052	1.3	1.88	48					
PRT3S-C	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PRT4S-C	14.5	368	0.190	4.8	0.052	1.3	4.00	102					
Light-Heavy Cross Section (Straight Tip)													
PRT2H-L	8.4	213	0.300	7.6	0.075	1.9	2.00	51	80	356	Hand install only	50	500
PRT3H-L	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PRT4H-L	14.5	368	0.300	7.6	0.075	1.9	4.00	102					

Pan-Ty® Releasable Lashing Ties – Nylon 6.6

- For indoor use
- Release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip, see page B1.22





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Extra-Heavy Cross Section — Plenum Rated													
PRT2EH-C	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	Hand install only	100	1000
PRT5EH-Q	20.1	511	0.500	12.7	0.075	1.9	5.00	127	250	1112	Hand install only	25	250
PRT6EH-Q	22.2	564	0.500	12.7	0.075	1.9	6.00	152					
PRT8EH-C	28.3	719	0.500	12.7	0.085	2.2	8.00	203	250	1112	Hand install only	100	1000
PRT10EH-C	34.2	869	0.500	12.7	0.085	2.2	10.00	254	250	1112	Hand install only	100	500
PRT12EH-C	40.1	1019	0.500	12.7	0.085	2.2	12.00	305	250	1112	Hand install only	50	500

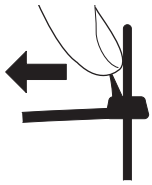
Order number of pieces required, in multiples of Standard Package Quantity.

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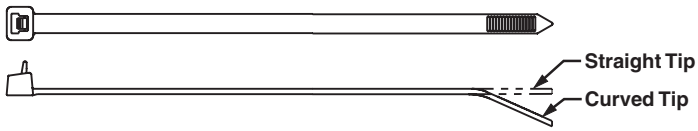
Pan-Ty® Releasable Cable Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Extended release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





To release, grasp the head of the cable tie, deflect release tab, and pull the cable tie away from the bundle.



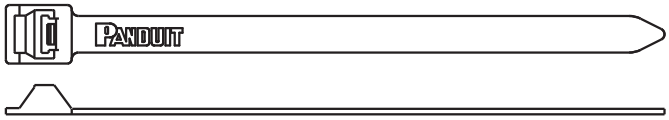
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Weather Resistant Nylon 6.6													
Standard Cross Section NEW! **Plenum Rated UL Type 2S Rated**													
PRT1S-C0	4.8	122	0.190	4.8	0.052	1.3	1.00	25	50	222	Hand install only	100	1000
PRT1.5S-C0	6.3	160	0.190	4.8	0.052	1.3	1.50	38					
PRT2S-C0	7.4	188	0.190	4.8	0.052	1.3	1.88	48					
PRT3S-C0	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
PRT4S-C0	14.5	368	0.190	4.8	0.052	1.3	4.00	102					
Light-Heavy Cross Section (Straight Tip)													
PRT2H-L0	8.4	213	0.300	7.6	0.075	1.9	2.00	51	80	356	Hand install only	50	500
PRT3H-L0	11.4	290	0.300	7.6	0.075	1.9	3.00	76					
PRT4H-L0	14.5	368	0.300	7.6	0.075	1.9	4.00	102					
Heat Stabilized Nylon 6.6													
Standard Cross Section													
PRT1.5S-M30	6.3	160	0.190	4.8	0.052	1.3	1.50	38	50	222	Hand install only	1000	1000

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Pan-Ty® Releasable Lashing Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- Typically used for heavy duty applications
- Among the strongest Pan-Ty® Cable Tie available
- Can be used with MCEH mounting clip shown below





Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Weather Resistant Nylon 6.6													
Extra-Heavy Cross Section													
PRT2EH-Q0	9.0	229	0.500	12.7	0.075	1.9	2.00	51	250	1112	Hand install only	25	250
PRT5EH-Q0	20.1	511	0.500	12.7	0.075	1.9	5.00	127					
PRT6EH-Q0	22.2	564	0.500	12.7	0.075	1.9	6.00	152					
PRT8EH-Q0	28.3	719	0.500	12.7	0.085	2.2	8.00	203					
PRT10EH-Q0	34.2	869	0.500	12.7	0.085	2.2	10.00	254					
PRT12EH-Q0	40.1	1019	0.500	12.7	0.085	2.2	12.00	305					
Heat Stabilized Nylon 6.6													
Extra-Heavy Cross Section													
PRT5EH-C30*	20.1	511	0.500	12.7	0.075	1.9	5.00	127	250	1112	Hand install only	100	1000

*PRT5EH-C30 not UL or CSA certified

Lashing Tie Mounting Clip – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Converts Panduit® lashing ties into clamps
- Easily snaps in place for a secure clamp
- Use with lashing ties shown on pages B1.9, B1.11, B1.20, B1.22 and B1.23





Part Number	Height A		Width B		Length C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
MCEH-S25-C0	.13	3.3	.67	17.0	1.38	35	1/4" (M6) screw (not flathead)	100	1000

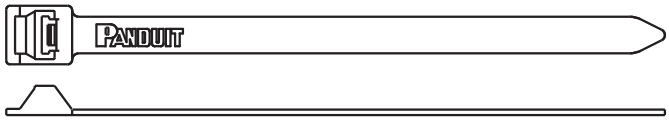
Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Releasable Lashing Ties – Weather Resistant Polypropylene

- For chemical resistance where high loop tensile strength is not required especially in the presence of hydrochloric acid, salts, and bases
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- Typically used for heavy duty applications
- Can be used with MCEH mounting clip, see page B1.22





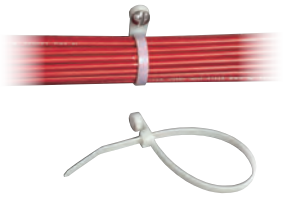
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Extra-Heavy Cross Section													
PRT2EH-C100	9.0	229	0.500	12.7	0.075	1.9	2.00	51	90	400	Hand install only	100	1000
PRT5EH-C100	20.1	511	0.500	12.7	0.075	1.9	5.00	127					
PRT6EH-C100	22.2	564	0.500	12.7	0.075	1.9	6.00	152					
PRT8EH-C100	28.3	719	0.500	12.7	0.085	2.2	8.00	203					

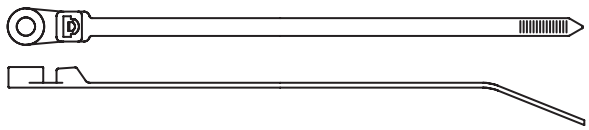
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Pan-Ty® Clamp Ties – Nylon 6.6

- For indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC







Part Number	Length		Width		Thickness		Nominal Hole Dia.		Screw Size	Metric Screw Size	Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			In.	mm	Lbs.	N			
Miniature Cross Section — Plenum Rated																	
PLC1M-S4-C	4.3	109	0.100	2.5	0.045	1.1	0.122	3.1	#4	M2.5	.75	19	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section — Plenum Rated																	
PLC1.5I-S8-C	6.1	155	0.135	3.4	0.045	1.1	0.174	4.4	#8	M4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section — Plenum Rated																	
PLC2S-S6-C	7.9	201	0.190	4.8	0.047	1.2	0.148	3.8	#6	M3	1.84	47	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLC2S-S10-C	7.9	201	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	1.84	47					
PLC3S-S10-C	12.0	305	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	3.00	76					
PLC4S-S10-C	15.0	381	0.190	4.8	0.052	1.3	0.200	5.1	#10	M5	4.00	102					
Light-Heavy Cross Section — Plenum Rated																	
PLC2H-S25-L	9.0	229	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
PLC4H-S25-L	15.1	384	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	4.00	102					

Order number of pieces required, in multiples of Standard Package Quantity.

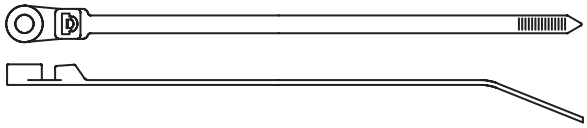
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Pan-Ty® Clamp Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Screw Size	Metric Screw Size	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Weather Resistant Nylon 6.6																	
Miniature Cross Section																	
PLC1M-S4-C0	4.3	109	0.100	2.5	0.045	1.1	0.122	3.1	#4	M2.5	.75	19	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section																	
PLC1.5I-S8-C0	6.1	155	0.135	3.4	0.045	1.1	0.174	4.4	#8	M4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section																	
PLC2S-S6-C0	7.9	201	0.190	4.8	0.047	1.2	0.148	3.8	#6	M3	1.84	47	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLC2S-S10-C0	7.9	201	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	1.84	47					
PLC3S-S10-C0	12.0	305	0.190	4.8	0.052	1.3	0.200	5.1	#10	M5	3.00	76					
PLC4S-S10-C0	15.0	381	0.190	4.8	0.052	1.3	0.200	5.1	#10	M5	4.00	102					
Light-Heavy Cross Section																	
PLC2H-S25-TL0	9.0	229	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLC4H-S25-L0	15.1	384	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	4.00	102				50	500
Heat Stabilized Nylon 6.6																	
Miniature Cross Section																	
PLC1M-S4-M30	4.3	109	0.100	2.5	0.045	1.1	0.122	3.1	#4	M2.5	0.75	19	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section																	
PLC1.5I-S8-M30	6.1	155	0.135	3.4	0.045	1.1	0.174	4.4	#8	M4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section																	
PLC2S-S10-M30	7.9	201	0.190	4.8	0.047	1.2	0.200	5.1	#10	M5	1.84	47	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLC4S-S10-M30	15.0	381	0.190	4.8	0.052	1.3	0.200	5.1	#10	M5	4.00	102				1000	5000
Light-Heavy Cross Section																	
PLC2H-S25-TL30	9.0	229	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLC4H-S25-TL30	15.1	384	0.300	7.6	0.075	1.9	0.260	6.6	1/4	M6	4.00	102					

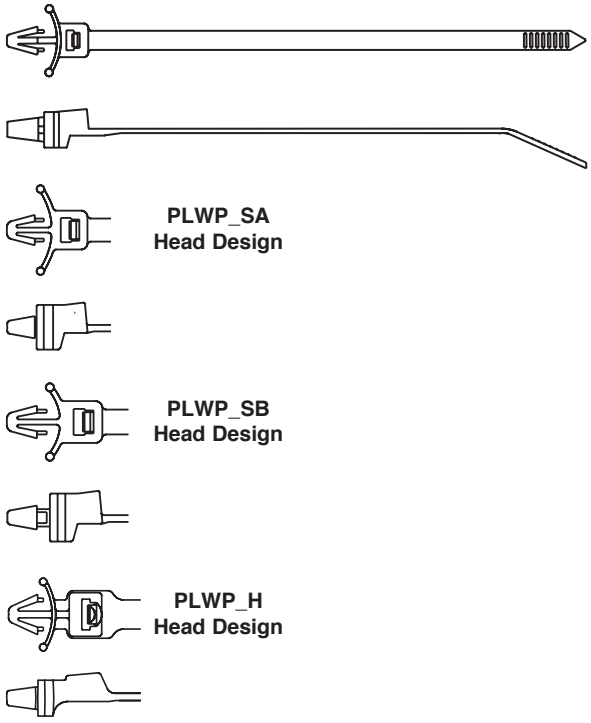
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Pan-Ty® Wing Push Mount Ties – Nylon 6.6

- For indoor use
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Max. Panel Thickness In.	Max. Panel Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section																	
PLWP1M-C	4.3	109	0.098	2.5	0.044	1.1	0.187	4.7	0.093	2.4	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section																	
PLWP1.5I-C	6.0	152	0.135	3.4	0.045	1.2	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section																	
PLWP1S-C	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLWP1SA-D	5.1	130	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.00	25	50	222		500	5000
PLWP1SB-D	5.2	132	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.00	25					
PLWP1.5S-D	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38					
PLWP1.5SA-D	6.7	170	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.50	38					
PLWP2S-C	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45	50	222		100	1000
PLWP2SA-D	7.7	196	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.75	45	50	222		500	5000
PLWP2SB-D	7.8	198	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.75	45					
Light-Heavy Cross Section																	
PLWP2H-TL	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLWP3H-TL	12.0	305	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	3.00	76					

Note: UL Recognized and CSA Certified except PLWP2H/3H.

Order number of pieces required, in multiples of Standard Package Quantity.

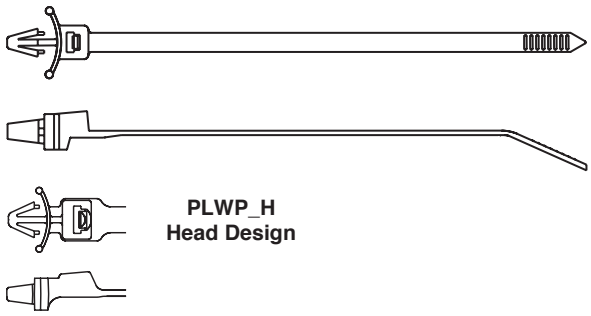
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Ty® Wing Push Mount Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







PLWP_H
Head Design

Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Max. Panel Thickness In.	Max. Panel Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Weather Resistant Nylon 6.6																	
Miniature Cross Section																	
PLWP1M-D0	4.3	109	0.098	2.5	0.044	1.1	0.187	4.7	0.093	2.4	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	500	5000
Standard Cross Section																	
PLWP1S-C0	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLWP2S-C0	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45					
Light-Heavy Cross Section																	
PLWP2H-TL0	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
PLWP3H-TL0	12.0	305	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	3.00	76					
Heat Stabilized Nylon 6.6																	
Miniature Cross Section																	
PLWP1M-D30	4.3	109	0.098	2.5	0.044	1.1	0.187	4.7	0.093	2.4	.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	500	5000
Intermediate Cross Section																	
PLWP1.5I-D30	6.0	152	0.135	3.4	0.045	1.2	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	500	5000
Standard Cross Section																	
PLWP1S-D30	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
PLWP1.5S-D30	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38					
PLWP2S-D30	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45					
Light-Heavy Cross Section																	
PLWP2H-TL30	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

Note: UL Recognized and CSA Certified except PLWP2H/3H.

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Pan-Ty® Releasable Wing Push Mount Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Extended release tab permits easy release and re-use where changes are anticipated during development, production, or servicing in the field
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

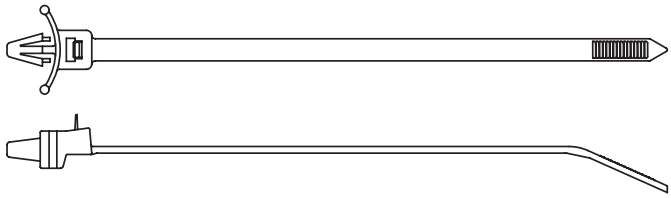


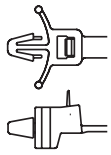
PRWP2S-D



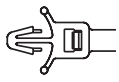
PRWP2S-D0



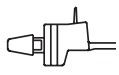


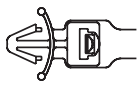


PRWP_SA Head Design

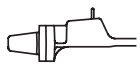


PRWP_SB Head Design





PRWP_H Head Design



Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Max. Panel Thickness In.	Max. Panel Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6																	
Standard Cross Section																	
PRWP1S-C	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	Hand install only	100	1000
PRWP1SA-D	5.1	130	0.190	4.8	0.052	1.3	0.187	4.7	0.093	2.4	1.00	25	50	222	Hand install only	500	5000
PRWP1SB-D	5.2	132	0.190	4.8	0.052	1.3	0.187	4.7	0.157	4.0	1.00	25					
PRWP1.5S-D	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38					
PRWP2S-D	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45					
Light-Heavy Cross Section																	
PRWP2H-TL	8.9	226	0.300	7.6	0.075	1.9	0.266	6.8	0.105	2.7	2.00	51	120	534	Hand install only	250	2500
Weather Resistant Nylon 6.6																	
Standard Cross Section																	
PRWP1S-D0	5.2	132	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.00	25	50	222	Hand install only	500	5000
PRWP1.5S-D0	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38					
PRWP2S-D0	7.8	198	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.75	45					
Heat Stabilized Nylon 6.6																	
Standard Cross Section																	
PRWP1.5S-D30	6.8	173	0.190	4.8	0.052	1.3	0.250	6.4	0.105	2.7	1.50	38	50	222	Hand install only	500	5000

Note: UL Recognized and CSA Certified except PRWP2H.

Order number of pieces required, in multiples of Standard Package Quantity.

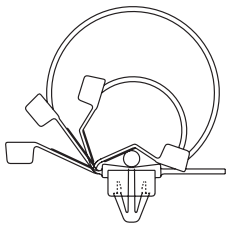
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Pan-Ty® Center Mounted Wing Push Mount Ties – Heat Stabilized Nylon 6.6

- For high temperature applications up to 239°F (115°C) – indoor use
- Used to center the bundle over the mount on all bundle diameters
- Cable tie, mount, and fastener in a single part
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Bundle diameters from .12" to 1.97" (3mm to 50mm)





PLWP-SC – Designed for normal wire bundles.

PLWP-SD – Designed for corrugated loom tubing. Bump prevents lateral and axial movement.

PLWP-SE – Designed for corrugated loom tubing, see page C3.10. Bump prevents lateral movement.

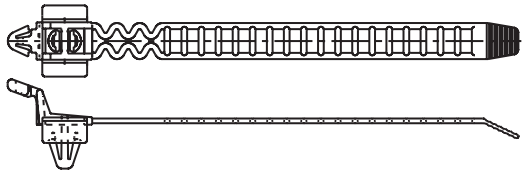
Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Standard Cross Section																	
PLWP30SC-D30	5.8	147	0.190	4.8	0.050	1.3	0.266	6.8	0.118	3.0	1.18	30	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
PLWP40SC-D30	7.0	178	0.190	4.8	0.050	1.3	0.266	6.8	0.118	3.0	1.58	40	50	222		500	5000
PLWP40SD-D30																	
PLWP50SC-D30	8.2	208	0.190	4.8	0.050	1.3	0.266	6.8	0.118	3.0	1.97	50	50	222		500	5000
PLWP50SE-D30																	

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Pan-Ty® Ladder Style Releasable Wing Push Mount Ties – Heat Stabilized Nylon 6.6

- For high temperature applications up to 239°F (115°C) – indoor use
- Unique releasable ladder design eliminates the need for multiple clamp sizes
- Cable tie, mount, and fastener in a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



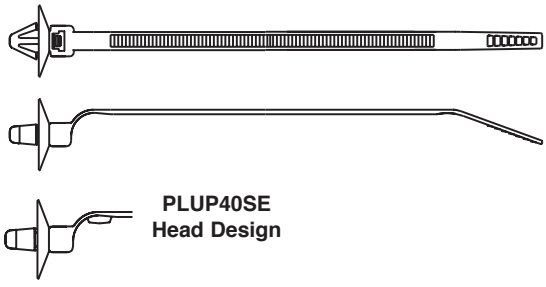


Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Standard Cross Section																	
PRLWP30S-D30	4.7	119	0.380	9.7	0.050	1.3	0.266	6.8	0.118	3.0	1.43	36	35	156	Hand install only	500	5000
PRLWP50S-D30	7.1	180	0.380	9.7	0.050	1.3	0.266	6.8	0.118	3.0	2.18	55					

Pan-Ty® Umbrella Wing Push Mount Ties – Nylon and Heat Stabilized Nylon 6.6

- Natural nylon material for indoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Quick, secure way to fasten to clearance holes in panel
- Anchor is easily pressed into a pre-formed hole in a light gauge metal or plastic and locks in place
- Umbrella shaped disk provides constant tension for a stable, secure, and rattle-free installation
- Disk forms a dust-tight and semi-liquid tight seal to the panel surface
- PLUP40SE style is for use with corrugated loom tubing, see page C3.10
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





PLUP40SE Head Design

Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Standard Cross Section																	
PLUP40S-D30*	7.0	177	0.190	4.8	0.047	1.2	0.266	6.8	0.050	1.3	1.57	40	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
PLUP40SE-D																	
PLUP40SE-D30*																	

*Heat stabilized material (30).

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Push Mount Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- *Wingless* design allows tie to be used in confined spaces
- Cable tie, mount, and fastener in a single part
- Economical push mount ties are used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

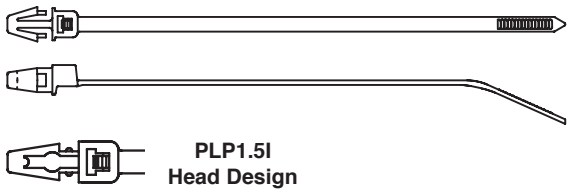


PLP2S-C



PLP2S-M0





PLP1.5I
Head Design

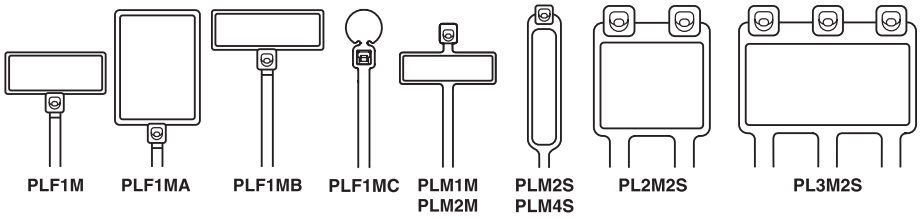
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Max. Panel Thickness In.	Max. Panel Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6																	
Intermediate Cross Section																	
PLP1.5I-C	6.1	156	0.135	3.4	0.045	1.1	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section																	
PLP1S-M	5.3	135	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLP1.5S-M	6.7	170	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.50	38					
PLP2S-C	7.9	200	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.75	45	50	222		100	1000
Weather Resistant Nylon 6.6																	
Intermediate Cross Section																	
PLP1.5I-M0	6.1	156	0.135	3.4	0.045	1.1	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section																	
PLP1S-M0	5.3	135	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLP2S-M0	7.9	200	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.75	45					
Heat Stabilized Nylon 6.6																	
Intermediate Cross Section																	
PLP1.5I-M30	6.1	156	0.135	3.4	0.045	1.1	0.187	4.7	0.093	2.4	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section																	
PLP1S-M30	5.3	135	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.00	25	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLP2S-M30	7.9	200	0.180	4.6	0.050	1.3	0.250	6.4	0.125	3.2	1.75	45					

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Pan-Ty® Marker and Flag Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Flame retardant material has a flammability rating of UL 94V-0 – for indoor use
- Used to fasten and identify bundles at the same time
- One-piece construction for consistent performance and reliability
- Can be marked with Panduit® marker pens on page B1.49 or computer printable labels
- Custom imprinting with text, symbols, or trademarks available using Panduit Custom Hot Stamping Service, see page B1.89
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





Part Number	Marker Type	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Marker Write-On Area In.	Marker Write-On Area mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6																
Miniature Cross Section																
PLF1M-C	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLF1MA-C		5.1	130	0.098	2.5	0.045	1.1	0.76 x 1.04	19.1 x 26.4	0.87	22					
PLF1MB-C		4.0	101	0.098	2.5	0.045	1.1	0.31 x 0.92	7.9 x 23.4	0.75	19					
PLF1MC-M		4.3	109	0.098	2.5	0.045	1.1	0.29 x 0.32	7.4 x 8.0	0.87	22	18	80		1000	25000
PLM1M-C	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19	18	80		100	1000
PLM2M-C		8.0	203	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	2.00	51					
Standard Cross Section																
PLM2S-C	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.44 x 0.87	11.1 x 22.1	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLM4S-C		14.6	371	0.185	4.7	0.052	1.3	0.44 x 2.00	11.1 x 50.8	4.00	102					
PL2M2S-L	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.07	22.1 x 27.2	1.75	45	50	222		50	500
PL3M2S-L		7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.79	22.1 x 45.5	1.75	45					
Weather Resistant Nylon 6.6																
Miniature Cross Section																
PLF1M-C0	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
PLF1MA-M0		5.1	130	0.098	2.5	0.045	1.1	0.76 x 1.04	19.1 x 26.4	0.87	22	18	80		1000	10000
PLM1M-C0	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19	18	80		100	1000
PLM2M-M0		8.0	203	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	2.00	51	18	80		1000	25000
Standard Cross Section																
PLM2S-C0	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.44 x 0.87	11.1 x 22.1	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLM4S-D0		14.6	371	0.185	4.7	0.052	1.3	0.44 x 2.00	11.1 x 50.8	4.00	102	50	222		500	5000
PL2M2S-L0	Wrap	7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.07	22.1 x 27.2	1.75	45	50	222		50	500
PL3M2S-D0		7.4	188	0.185	4.7	0.052	1.3	0.87 x 1.79	22.1 x 45.5	1.75	45	50	222		500	2500
Flame Retardant Nylon 6.6																
Miniature Cross Section																
PLF1M-M69	Flag	4.3	109	0.098	2.5	0.045	1.1	0.31 x 0.75	7.9 x 19.1	0.87	22	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
PLM1M-M69	Wrap	3.9	99	0.098	2.5	0.035	0.9	0.26 x 0.95	6.6 x 24.1	0.75	19					

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Weather Resistant Nylon 6.6 (meets Mil Spec.)	Black	00
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Nylon 6.6	Telephone Gray	14
Nylon 6.6	Black	20
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39

Material	Color	Panduit Suffix
Nylon 6.6	Fluorescent Orange	53
Nylon 6.6	Fluorescent Yellow	54
Nylon 6.6	Fluorescent Green	55
Nylon 6.6	Fluorescent Pink	59
Flame Retardant Nylon 6.6	Black	60
Flame Retardant Nylon 6.6	Natural (Ivory)	69
PEEK (Polyetheretherketone)	Translucent Brown	71
TEFZEL■	Aqua Blue	76
Metal Detectable, Nylon	Blue	86
Metal Detectable, Polypropylene	Blue	186
Weather Resistant Polypropylene	Black	100
Polypropylene	Green	109
Nylon 12	Black	120
Heat Stabilized Weather Resistant Nylon 6.6	Black	300
HALAR▲	Maroon	702Y
NEW! Heat Stabilized UV Weather Resistant Impact Modified Nylon 6.6	Black	350

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).
■TEFZEL is a registered trademark of The Chemours Company.
▲HALAR is a registered trademark of Solvay Solexis.

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
PLC1M-S4-C	✓	0	**PLC1M-S4-M**	✓	0, 30
PLC1.5I-S8-C	✓	0	**PLC1.5I-S8-M**	✓	0, 30
PLC2S-S6-C	✓	0	**PLC2S-S6-M**	✓	0
PLC2S-S10-C	✓	0, 14	**PLC2S-S10-M**	✓	0, 20, 30
PLC3S-S10-C	✓	0	**PLC3S-S10-M**	✓	0
PLC4S-S10-C	✓	0	**PLC4S-S10-M**	✓	0, 30
PLC2H-S25-L	✓		**PLC2H-S25-TL**	✓	0, 30
PLC4H-S25-L	✓	0	**PLC4H-S25-TL**	✓	0, 30
PLF1M-C	✓	0	**PLF1M-M**	✓	0, 2, 3, 4Y, 6, 10, 69
PLF1MA-C	✓	3, 4Y	**PLF1MA-M**	✓	0, 2, 3, 4Y, 5, 6, 10
PLF1MB-C	✓		**PLF1MB-M**	✓	
			PLF1MC-M		3
PLM1M-C	✓	0	**PLM1M-M**	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 69
PLM2M-C	✓		**PLM2M-M**	✓	0, 4Y, 6
PLM2S-C	✓	0, 4Y	**PLM2S-D**	✓	0, 2, 3, 4Y, 5, 6, 8
PLM4S-C	✓		**PLM4S-D**	✓	0, 2, 4Y, 6

Continued on next page

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Pan-Ty® Cable Ties (continued)

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
PL2M2S-L	✓	0	PL2M2S-D	✓	0, 4Y, 10
PL3M2S-L	✓		PL3M2S-D	✓	0, 4Y
PLP1.5I-C	✓		PLP1.5I-M	✓	0, 30
			PLP1S-M	✓	0, 30
			PLP1.5S-M	✓	
PLP2S-C	✓		PLP2S-M	✓	0, 30
PLT.6SM-C	✓	0	PLT.6SM-M	✓	0, 30
PLT.7M-C	✓		PLT.7M-M	✓	0, 30
PLT1M-C	✓	0, 00, 1, 2, 3, 5, 6, 7, 8, 10, 14, 30, 71, 76, 86, 186, 702Y	PLT1M-M	✓	0, 00, 1, 2, 3, 5, 6, 7, 8, 10, 14, 20, 30, 53, 54, 55, 59, 60, 69, 76, 100, 109, 300, 702Y
			PLT1M-XMR	✓	0, 00, 2, 3, 5, 6, 7, 8, 30
PLT1.5M-C	✓	0, 71	PLT1.5M-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 14, 20, 30
			PLT1.5M-XMR	✓	0, 00, 30
PLT2M-C	✓	0	PLT2M-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 69
PLT1.5I-C	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30	PLT1.5I-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 69, 100, 109, 120, 300
PLT2I-C	✓	0, 14, 30, 76, 86, 186	PLT2I-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 14, 20, 30, 53, 54, 55, 59, 69, 76, 300
PLT2.5I-C	✓	0	PLT2.5I-M	✓	0, 20
PLT3I-C	✓	0, 14	PLT3I-M	✓	0, 2, 3, 4Y, 5, 6, 8, 10, 14, 20, 30
PLT4I-C	✓	0, 14	PLT4I-M	✓	0, 2, 5, 6, 14, 20, 30
PLT1S-C	✓	0	PLT1S-M	✓	0, 30, 38, 300
PLT1.5S-C	✓	0	PLT1.5S-M	✓	0, 30
PLT2S-C	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 54, 55, 59, 71, 76, 86, 120, 186, 702Y	PLT2S-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 38, 39, 53, 54, 55, 59, 60, 69, 71, 76, 100, 109, 120, 300, 702Y
			PLT2S-VMR	✓	0, 30
PLT2.5S-C	✓	0	PLT2.5S-M	✓	0, 30
PLT3S-C	✓	0, 00, 2, 20, 30, 76, 86, 186, 702Y	PLT3S-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 53, 54, 55, 59, 76, 100, 109, 702Y
			PLT3S-VMR	✓	30
PLT4S-C	✓	0, 00, 2, 3, 4Y, 5, 6, 8, 10, 20, 30, 76, 86, 186	PLT4S-M	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 14, 20, 30, 69, 76, 100, 109, 120, 300
PLT4.5S-C	✓	0	PLT4.5S-M	✓	0
PLT5S-C	✓	0	PLT5S-M	✓	0, 2, 3, 4Y, 5, 6, 8, 30
PLT6LH-L	✓	0	PLT6LH-C	✓	0
PLT7LH-L	✓	0	PLT7LH-C	✓	0, 30
PLT8LH-L	✓	0	PLT8LH-C	✓	0, 120
PLT8LH-Q		0			
PLT9LH-L	✓	0	PLT9LH-C	✓	0, 30
PLT10LH-L	✓		PLT10LH-C	✓	
PLT2H-L	✓	0	PLT2H-TL	✓	0, 2, 4Y, 6, 30, 100, 109, 300
PLT2.5H-L	✓	0	PLT2.5H-TL	✓	0
PLT3H-L	✓	0, 76, 86, 186	PLT3H-TL	✓	0, 30, 76, 100, 109
PLT4H-L	✓	0, 00, 76, 86, 186	PLT4H-TL	✓	0, 00, 1, 2, 3, 4Y, 5, 6, 10, 20, 30, 69, 76, 100, 109, 120, 300
PLT4H-C	✓	0			
PLT5H-L	✓	0	PLT5H-C	✓	0, 30
PLT6H-L	✓	0	PLT6H-C	✓	0, 30
PLT8H-L	✓	0	PLT8H-C	✓	0, 00, 30
PLT13H-Q	✓	0	PLT13H-C	✓	0, 3

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Order number of pieces required, in multiples of Standard Package Quantity.

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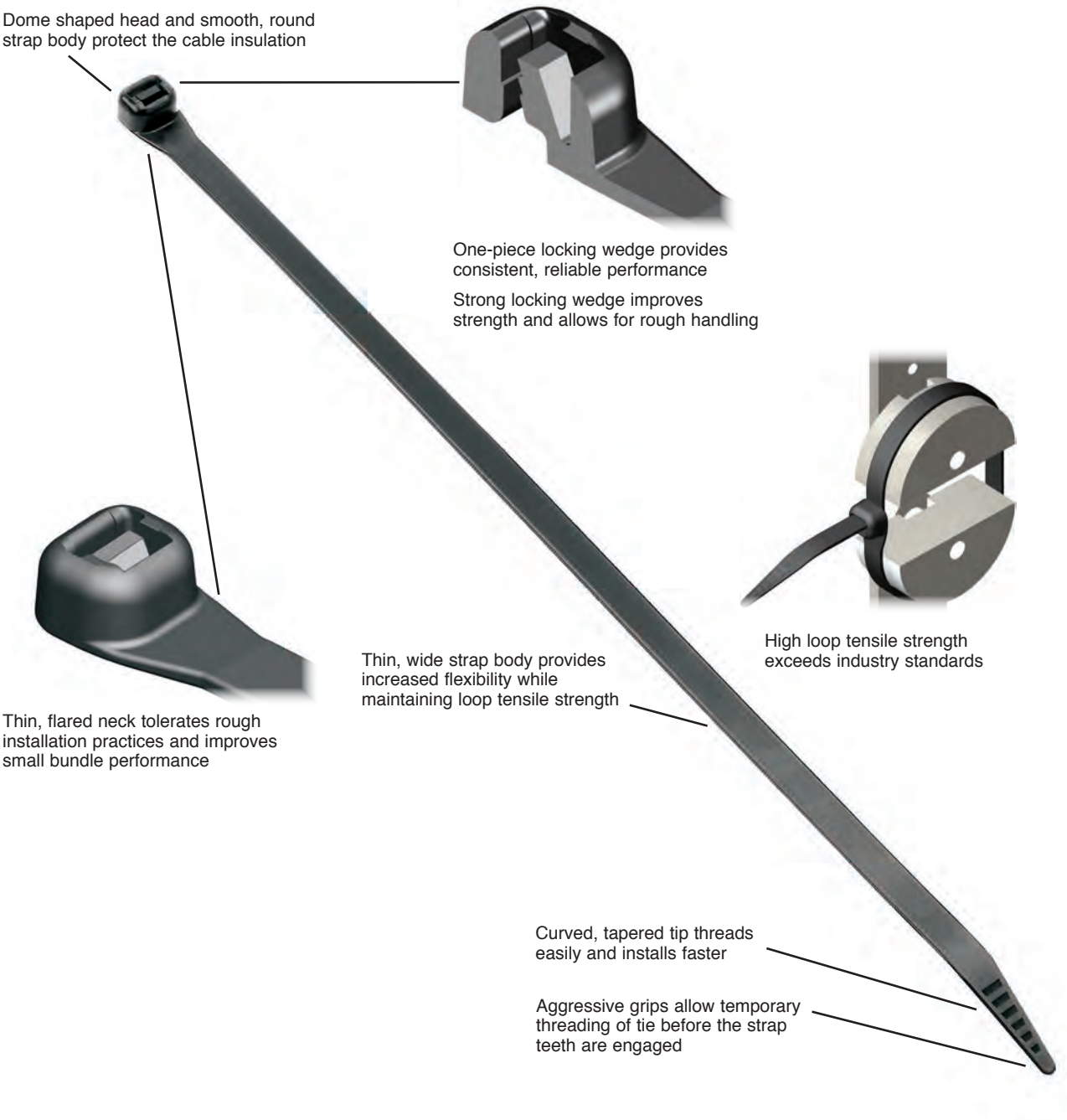
Pan-Ty® Cable Ties (continued)

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
PLT2EH-Q		0	PLT2EH-C	✓	0
			PLT3EH-NB-C		0
PLT5EH-Q	✓	0	PLT5EH-C	✓	0
			PLT5EH-NB-C		0
PLT6EH-Q	✓	0	PLT6EH-C	✓	0
			PLT6EH-NB-C		0
PLT8EH-Q		0	PLT8EH-C	✓	0
PLT10EH-Q		0	PLT10EH-C	✓	0
PLT12EH-Q		0	PLT12EH-C	✓	0
			PLUP40S-D		30
			PLUP40SE-D	✓	30
PLWP1M-C	✓		PLWP1M-D	✓	0, 30
PLWP1.5I-C	✓		PLWP1.5I-D	✓	30
PLWP1S-C	✓	0	PLWP1S-D	✓	0, 20, 30
			PLWP1SA-D	✓	
			PLWP1SB-D	✓	
			PLWP1.5S-D	✓	30
			PLWP1.5SA-D	✓	
PLWP2S-C	✓	0	PLWP2S-D	✓	0, 30
			PLWP2SA-D	✓	
			PLWP2SB-D	✓	
			PLWP2H-TL	✓	0, 30
			PLWP3H-TL	✓	0
			PLWP30SC-D		30
			PLWP40SC-D		30
			PLWP40SD-D		30
			PLWP50SC-D		30
			PLWP50SE-D		30
			PLWS2EH-TL350		350
			PLWS3EH-TL350		350
			PLWS4EH-TL30		350
			PRLWP30S-D		30
			PRLWP50S-D		30
PRT1S-C	✓	0	PRT1S-M	✓	0
PRT1.5S-C	✓	0	PRT1.5S-M	✓	0, 30
PRT2S-C	✓	0	PRT2S-M	✓	0, 2, 3, 4Y, 6, 7
PRT3S-C	✓	0	PRT3S-M	✓	0
PRT4S-C	✓	0	PRT4S-M	✓	0, 2, 3, 4Y, 6
PRT2H-L	✓	0	PRT2H-TL	✓	0
PRT3H-L	✓	0	PRT3H-TL	✓	0
PRT4H-L	✓	0	PRT4H-TL	✓	0
PRT2EH-Q		0	PRT2EH-C	✓	0, 100
PRT5EH-Q	✓	0, 30	PRT5EH-C	✓	0, 30, 100
PRT6EH-Q	✓	0	PRT6EH-C	✓	0, 100
PRT8EH-Q		0	PRT8EH-C	✓	0, 100
PRT10EH-Q		0	PRT10EH-C	✓	0
PRT12EH-Q		0	PRT12EH-C	✓	0
PRWP1S-C	✓		PRWP1S-D	✓	0
			PRWP1SA-D	✓	
			PRWP1SB-D	✓	
			PRWP1.5S-D	✓	0, 20, 30
			PRWP2S-D	✓	0
			PRWP2H-TL	✓	

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Features and Benefits – Super-Grip® Cable Ties

One-piece design with a thin, wide strap body for improved flexibility.





Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.6, B2.9, B2.11, B2.19.

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Selection Guide – Super-Grip® Cable Ties



Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	SG	B1.38
Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	SG	B1.39
Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	SG	B1.39

Part Number System for Super-Grip® Cable Ties

SG — **200** — **S** — **C**

Type

SG = Locking Tie

Length

Approx. Length (mm)

Cross Section

M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
H = Heavy

Package Size

L = 50
C = 100
TL = 250
M = 1000

Material/Color

See Page B1.40

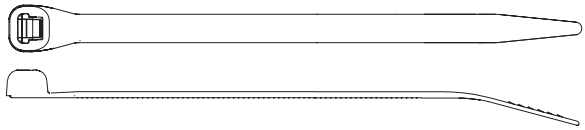
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Super-Grip® Cable Ties – Nylon 6.6

- For indoor use
- Designed to grip the bundle tightly to resist lateral movement of the tie once installed
- High strength allows the tie to withstand rough installation practices that occur in MRO and construction environments
- Thin, wide strap body provides flexibility enabling it to conform to bundle while maintaining tensile strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC
- Complementary mounts available, see pages B2.6, B2.9, B2.11, B2.19







Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section – Plenum Rated													
SG100M-C	4.2	106	0.118	3.0	0.038	1.0	0.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section – Plenum Rated													
SG150I-C	6.2	157	0.168	4.3	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section – Plenum Rated													
SG200S-C	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
SG250S-C	10.4	264	0.225	5.7	0.050	1.3	2.60	66	75	334		100	1000
SG300S-C	12.4	315	0.225	5.7	0.050	1.3	3.20	81					
SG370S-C	15.3	389	0.225	5.7	0.052	1.3	4.20	107					
Light-Heavy Cross Section – Plenum Rated													
SG350LH-L	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
Heavy Cross Section – Plenum Rated													
SG450H-L	18.6	471	0.380	9.7	0.068	1.7	5.20	132	175	778	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500

Order number of pieces required, in multiples of Standard Package Quantity.

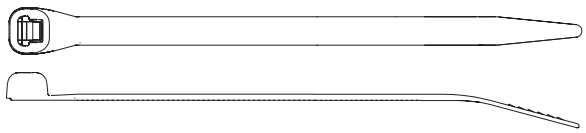
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Super-Grip® Cable Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Designed to grip the bundle tightly to resist lateral movement of the tie once installed
- High strength allows the tie to withstand rough installation practices that occur in MRO and construction environments
- Thin, wide strap body provides flexibility enabling it to conform to bundle while maintaining tensile strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Complementary mounts available, see pages B2.6, B2.9, B2.11, B2.19







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Weather Resistant Nylon 6.6													
Miniature Cross Section													
SG100M-C0	4.2	106	0.118	3.0	0.038	1.0	.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Intermediate Cross Section													
SG150I-C0	6.2	157	0.168	4.3	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
Standard Cross Section													
SG200S-C0	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
SG250S-C0	10.4	264	0.225	5.7	0.050	1.3	2.60	66	75	334			
SG300S-C0	12.4	315	0.225	5.7	0.050	1.3	3.20	81					
SG370S-C0	15.3	389	0.225	5.7	0.052	1.3	4.20	107					
Light-Heavy Cross Section													
SG350LH-L0	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
Heavy Cross Section													
SG450H-L0	18.6	471	0.380	9.7	0.068	1.7	5.20	132	175	778	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
Heat Stabilized Nylon 6.6													
Standard Cross Section													
SG200S-M30	8.3	211	0.225	5.7	0.046	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
SG300S-M30	12.4	315	0.225	5.7	0.050	1.3	3.20	81	70	311			
Light-Heavy Cross Section													
SG350LH-TL30	15.3	389	0.330	8.4	0.064	1.6	4.13	105	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

Note: UL Listed and CSA Certified except SG450H-L0 and heat stabilized material (30).

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Super-Grip® Cable Ties and Mounts

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Heat Stabilized Nylon 6.6	Black	30

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

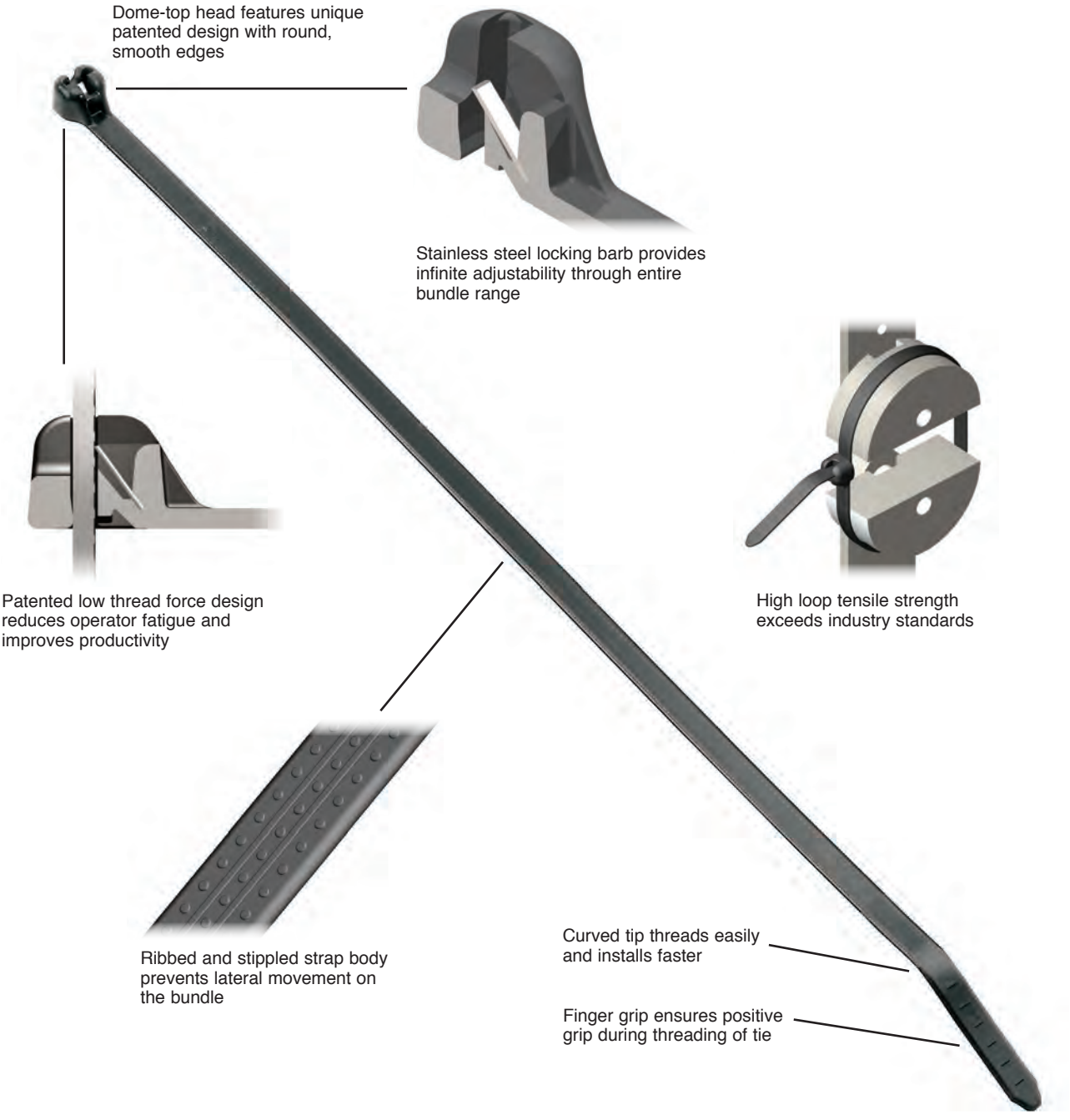
Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
SG100M-C	✓	0	SG100M-M	✓	0
SG150I-C	✓	0	SG150I-M	✓	0
SG200S-C	✓	0	SG200S-M	✓	0, 30
SG250S-C	✓	0			
SG300S-C	✓	0	SG300S-M	✓	0, 30
SG370S-C	✓	0	SG370S-M	✓	0
SG350LH-L	✓	0	SG350LH-TL	✓	0, 30
SG450H-L	✓	0	SG450H-C	✓	0

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Features and Benefits – Dome-Top® Barb Ty Cable Ties

Two-piece design incorporates a stainless steel locking barb in a nylon cable tie.





Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.1 – B2.26.

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Selection Guide – Dome-Top® Barb Ty and Dura-Ty™ Cable Ties





Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Dome-Top® Barb Ty Cable Ties			
Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	BT	B1.43
	Clamp Ties/Mount	BC	B1.46
	Push Mount Ties/Mount	BW	B1.48
	Marker Ties/Identify	BF, BM, B2M, B3M, B4M	B1.50
Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	BT	B1.44
	Clamp Ties/Mount	BC	B1.47
	Push Mount Ties/Mount	BW, BP	B1.48, 49
	Marker Ties/Identify	BF, BM, B2M, B3M, B4M	B1.50
Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	BT	B1.45
	Clamp Ties/Mount	BC	B1.47
Heat Stabilized Nylon 6.6, Natural (39)	Locking Ties/Bundle	BT	B1.45
Dura-Ty™ Cable Ties, Strapping, and Kits			
Weather Resistant Acetal, Black	Locking Ties/Bundle	DT	B1.51

Part Number System for Dome-Top® Barb Ty and Dura-Ty™ Cable Ties

BT – **2** – **S** – **C**

Type

BT = Locking Tie
BC = Clamp Tie
BF = Flag Tie
BM = Marker Tie
BP = Push Mount Tie
BW = Wing Push Mount Tie
DT = Locking Tie

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
H = Heavy
EH = Extra-Heavy

Screw Hole Size

(Clamp Ties Only)
-S4 = #4 (M2.5)
-S6 = #6 (M3)
-S8 = #8 (M4)
-S10 = #10 (M5)
-S25 = 1/4 (M6)

Package Size

Q = 25
L = 50
C = 100
TL = 250
D = 500
M = 1000
LR = 50' Reel

Material/Color

See Page B1.52

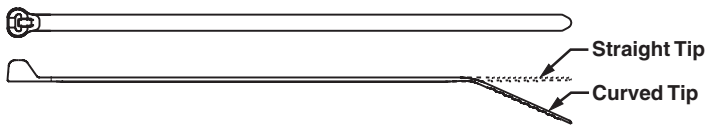
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Dome-Top® Barb Ty Cable Ties – Nylon 6.6

- For indoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High strength and low thread force
- A variety of materials and colors are available for specific applications
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC







Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section – Plenum Rated													
BT1M-C	4.0	102	0.095	2.4	0.036	.9	.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BT1.5M-C	6.3	160	0.095	2.4	0.046	1.2	1.50	38					
BT2M-C	7.9	201	0.095	2.4	0.046	1.2	2.00	51					
BT4M-C	14.2	361	0.095	2.4	0.046	1.2	4.00	102					
Intermediate Cross Section – Plenum Rated													
BT1.5I-C	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BT2I-C	8.0	203	0.141	3.6	0.041	1.0	2.00	51					
BT3I-C	11.3	287	0.141	3.6	0.049	1.2	3.00	76					
BT4I-C	14.3	363	0.141	3.6	0.049	1.2	4.00	102					
Standard Cross Section – Plenum Rated NEW! **UL TYPE 2S Rated**													
BT2S-C	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
BT3S-C	12.0	305	0.185	4.7	0.052	1.3	3.00	76					
BT4S-C	15.1	384	0.185	4.7	0.052	1.3	4.00	102					
Light-Heavy Cross Section (Straight Tip) – Plenum Rated NEW! **UL TYPE 2S Rated**													
BT2LH-L	8.7	221	0.275	7.0	0.065	1.7	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
BT3LH-L	11.8	300	0.275	7.0	0.065	1.7	3.00	76					
BT4LH-L	14.9	378	0.275	7.0	0.065	1.7	4.00	102					
BT5LH-L	18.1	460	0.275	7.0	0.065	1.7	5.00	127					
BT6LH-L	21.2	538	0.275	7.0	0.065	1.7	6.00	152					
BT7LH-L	24.4	620	0.275	7.0	0.065	1.7	7.00	178					
BT8LH-L	27.5	699	0.275	7.0	0.065	1.7	8.00	203					
BT9LH-L	30.7	780	0.275	7.0	0.065	1.7	9.00	229					

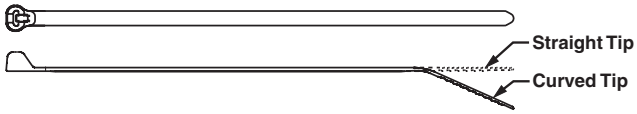
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Dome-Top® Barb Ty Cable Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High strength and low thread force
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section NEW! **Plenum Rated**													
BT1M-C0	4.0	102	0.095	2.4	0.036	.9	.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BT1.5M-C0	6.3	160	0.095	2.4	0.046	1.2	1.50	38					
BT2M-C0	7.9	201	0.095	2.4	0.046	1.2	2.00	51					
BT4M-C0	14.2	361	0.095	2.4	0.046	1.2	4.00	102					
Intermediate Cross Section NEW! **Plenum Rated**													
BT1.5I-C0	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BT2I-C0	8.0	203	0.141	3.6	0.041	1.0	2.00	51					
BT3I-C0	11.3	287	0.141	3.6	0.049	1.2	3.00	76					
BT4I-C0	14.3	363	0.141	3.6	0.049	1.2	4.00	102					
Standard Cross Section NEW! **Plenum Rated UL TYPE 2S Rated**													
BT2S-C0	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
BT3S-C0	12.0	305	0.185	4.7	0.052	1.3	3.00	76					
BT4S-C0	15.1	384	0.185	4.7	0.052	1.3	4.00	102					
Light-Heavy Cross Section (Straight Tip) NEW! **Plenum Rated UL TYPE 2S Rated**													
BT2LH-L0	8.7	221	0.275	7.0	0.065	1.7	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
BT3LH-L0	11.8	300	0.275	7.0	0.065	1.7	3.00	76					
BT4LH-L0	14.9	378	0.275	7.0	0.065	1.7	4.00	102					
BT5LH-L0	18.1	460	0.275	7.0	0.065	1.7	5.00	127					
BT6LH-L0	21.2	538	0.275	7.0	0.065	1.7	6.00	152					
BT7LH-L0	24.4	620	0.275	7.0	0.065	1.7	7.00	178					
BT8LH-L0	27.5	699	0.275	7.0	0.065	1.7	8.00	203					
BT9LH-L0	30.7	780	0.275	7.0	0.065	1.7	9.00	229					

Order number of pieces required, in multiples of Standard Package Quantity.

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Dome-Top® Barb Ty Cable Ties – Heat Stabilized Nylon 6.6

- For high temperature applications up to 239°F (115°C) – indoor use
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

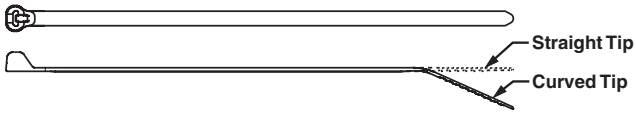


BT2S-M30



BT2S-M39





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Heat Stabilized Nylon 6.6													
Miniature Cross Section													
BT1M-C30	4.0	102	0.095	2.4	0.036	0.9	0.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BT1.5M-M30	6.3	160	0.095	2.4	0.046	1.2	1.50	38	18	80		1000	50000
BT2M-M30	7.9	201	0.095	2.4	0.046	1.2	2.00	51	18	80		1000	25000
Intermediate Cross Section													
BT1.5I-M30	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
BT2I-M30	8.0	203	0.141	3.6	0.041	1.0	2.00	51					
BT3I-M30	11.3	287	0.141	3.6	0.049	1.2	3.00	76	40	178		1000	10000
Standard Cross Section													
BT2S-M30	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
BT3S-M30	12.0	305	0.185	4.7	0.052	1.3	3.00	76					
BT4S-M30	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
BT4LH-TL30	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
Heat Stabilized Nylon 6.6													
Miniature Cross Section													
BT1M-M39	4.0	102	0.095	2.4	0.036	0.9	0.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
BT1.5I-M39	6.1	155	0.141	3.6	0.041	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
BT2S-M39	8.0	203	0.185	4.7	0.045	1.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
BT3S-M39	12.0	305	0.185	4.7	0.052	1.3	3.00	76					
BT4S-M39	15.1	384	0.185	4.7	0.052	1.3	4.00	102	50	222		1000	5000
Light-Heavy Cross Section (Straight Tip)													
BT4LH-TL39	14.9	378	0.275	7.0	0.065	1.7	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

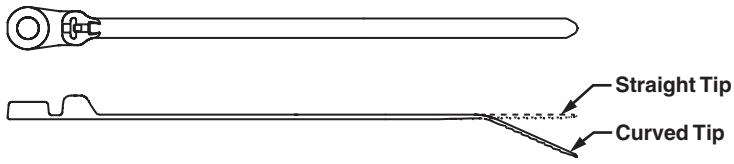
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Dome-Top® Barb Ty Clamp Ties – Nylon 6.6

- For indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Screw Size	Metric Screw Size	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section — Plenum Rated																	
BC1M-S4-M	4.6	117	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	0.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
BC2M-S4-M	8.3	211	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	2.00	51	18	80		1000	25000
Intermediate Cross Section — Plenum Rated																	
BC1.5I-S8-M	6.6	168	0.141	3.6	0.041	1.0	0.174	4.4	#8	M4	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section — Plenum Rated																	
BC2S-S10-C	8.5	216	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
BC3S-S10-D	12.5	318	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	3.00	76	50	222		500	5000
BC4S-S10-C	15.6	396	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222		100	1000
Light-Heavy Cross Section — Plenum Rated																	
BC4LH-S25-L	15.5	394	0.275	7.0	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500

Order number of pieces required, in multiples of Standard Package Quantity.

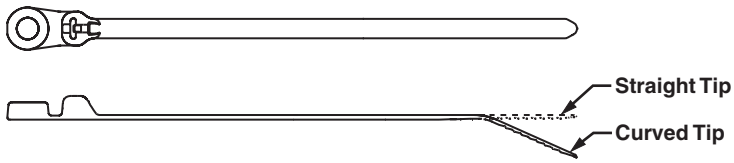
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Dome-Top® Barb Ty Clamp Ties – Weather Resistant and Heat Stabilized Nylon 6.6

- Weather Resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Screw Size	Metric Screw Size	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Weather Resistant Nylon 6.6																	
Miniature Cross Section																	
BC1M-S4-M0	4.6	117	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	0.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
BC2M-S4-M0	8.3	211	0.095	2.4	0.046	1.2	0.122	3.1	#4	M2.5	2.00	51	18	80		1000	25000
Intermediate Cross Section																	
BC1.5I-S8-M0	6.6	168	0.141	3.6	0.041	1.0	0.174	4.4	#8	M4	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section																	
BC2S-S10-C0	8.5	216	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
BC3S-S10-D0	12.5	318	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	3.00	76	50	222		500	5000
BC4S-S10-C0	15.6	396	0.185	4.7	.0052	1.3	0.200	5.1	#10	M5	4.00	102	50	222		100	1000
Light-Heavy Cross Section (Straight Tip)																	
BC4LH-S25-L0	15.5	394	0.275	7.0	0.065	17	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
Heat Stabilized Nylon 6.6																	
Standard Cross Section																	
BC4S-S10-D30	15.6	396	0.185	4.7	0.052	1.3	0.200	5.1	#10	M5	4.00	102	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STH2, STS2	500	5000

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Dome-Top® Barb Ty Wing Push Mount Ties – Nylon and Weather Resistant Nylon 6.6

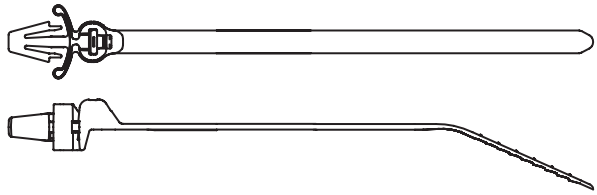
- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Combine cable tie, mount, and fastener into a single part
- Used to attach bundles to another surface such as a flat panel
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wings provide constant tension for a stable, secure, and rattle-free installation
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



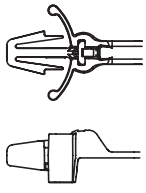
BW2S-D



BW2S-D0







BW2S Head Design

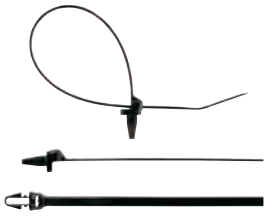
Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6																	
Intermediate Cross Section																	
BW1.5I-D	6.6	168	0.141	3.6	0.041	1.0	0.187	4.7	0.093	2.4	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	500	5000
Standard Cross Section																	
BW2S-D	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
BW3S-D	12.5	318	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	3.00	76					
Weather Resistant Nylon 6.6																	
Standard Cross Section																	
BW2S-D0	8.5	216	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
BW3S-D0	12.5	318	0.185	4.7	0.052	1.3	0.250	6.4	0.156	4.0	3.00	76					

Order number of pieces required, in multiples of Standard Package Quantity.

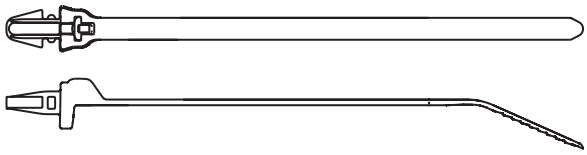
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Dome-Top® Barb Ty Push Mount Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used to attach bundles to another surface such as a flat panel
- Cable tie, mount, and fastener in a single part
- Anchor is easily pressed into a pre-formed hole and locks in place
- Wingless design allows tie to be used in confined spaces
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Standard Cross Section																	
BP2S-D0	8.5	216	0.185	4.7	0.052	1.3	0.255	6.5	0.125	3.2	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000

Permanent Marking Pens

- Fast drying, permanent ink for identification on marker ties (pages B1.32, B1.50, and B1.68), marker plates (page B2.26), or cable marker straps (page B1.76)
- May be used with any label shown in the catalog when a printer is not available



PX-0
PX-2



PX-10

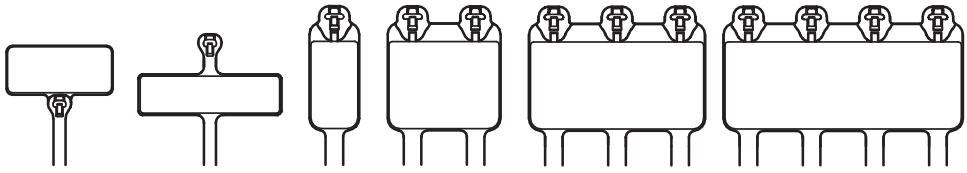
Part Number	Color	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PX-0	Black	Permanent marking pen – regular tip	12	144
PX-2	Red	Permanent marking pen – regular tip		
PX-10	White	Marking pen for black or other dark colored parts – regular tip	12	300

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Dome-Top® Barb Ty Marker and Flag Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used to fasten and identify bundles at the same time
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- Can be marked with Panduit® marker pens on the previous page or computer printable labels
- Custom imprinting with text, symbols, or trademarks available using Panduit Custom Hot Stamping Service, see page B1.89
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





Part Number	Marker Type	Length		Width		Thickness		Marker Write-On Area		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6																
Miniature Cross Section																
BF1M-C	Flag	4.6	117	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
BF2M-C		8.3	211	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	2.00	51					
BM1M-C	Wrap	4.2	107	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	.90	23					
BM2M-C		7.9	201	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	2.00	51					
Standard Cross Section																
BM2S-C	Wrap	8.0	203	0.185	4.7	0.045	1.2	0.49 x 0.91	12.4 x 23.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
BM4S-C		15.1	384	0.185	4.7	0.052	1.3	0.50 x 2.13	12.7 x 54.1	4.00	102					
B2M2S-D		8.0	203	0.185	4.7	0.045	1.2	1.15 x 0.91	29.2 x 23.1	2.00	51	50	222		500	2500
B3M2S-TL		8.0	203	0.185	4.7	0.045	1.2	1.81 x 0.91	46.0 x 23.1	2.00	51	50	222		250	2500
B4M2S-TL		8.0	203	0.185	4.7	0.045	1.2	2.47 x 0.91	62.7 x 23.1	2.00	51					
Weather Resistant Nylon 6.6																
Miniature Cross Section																
BF1M-M0	Flag	4.6	117	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	.90	23	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
BF2M-M0		8.3	211	0.095	2.4	0.046	1.2	0.36 x 0.81	9.1 x 20.6	2.00	51					
BM1M-M0	Wrap	4.2	107	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	.90	23					
BM2M-M0		7.9	201	0.095	2.4	0.046	1.2	0.29 x 1.09	7.4 x 27.7	2.00	51					
Standard Cross Section																
BM2S-D0	Wrap	8.0	203	0.185	4.7	0.045	1.2	0.49 x 0.91	12.4 x 23.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	10000
BM4S-D0		15.1	384	0.185	4.7	0.052	1.3	0.50 x 2.13	12.7 x 54.1	4.00	102	50	222		500	5000
B2M2S-D0		8.0	203	0.185	4.7	0.045	1.2	1.15 x 0.91	29.2 x 23.1	2.00	51	50	222		500	2500
B3M2S-TL0		8.0	203	0.185	4.7	0.045	1.2	1.81 x 0.91	46.0 x 23.1	2.00	51	50	222		250	2500
B4M2S-TL0		8.0	203	0.185	4.7	0.045	1.2	2.47 x 0.91	62.7 x 23.1	2.00	51					

Order number of pieces required, in multiples of Standard Package Quantity.

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Dura-Ty™ Cable Ties – Weather Resistant Acetal – Heavy Cross Section





- Acetal strap and head materials can provide 20 years + life in outdoor applications. Factors such as installation procedures, tooling and environmental conditions can influence the actual life
- Excellent ultraviolet light, chemical, and moisture resistance
- Double stainless steel locking barbs provide consistent and predictable holding values
- Textured strap provides better gripping surface to prevent tie from moving laterally along the length of the bundle for tight, consistent bundles
- Robust head design allows tie to be tightened over a wide range of angles
- Convenient reel dispenser pack allows installer to cut-to-size for customized field applications; recyclable box has through-hole for attaching to belt, plus storage area for bag of heads
- Ideal for securing cables in outdoor messenger strand applications
- May be used with stackable aerial cable spacer on the next page

Part Number	Description	Strap Length		Strap Width		Min. Loop Tensile Str.		Head Height		Head Width		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		Ft.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm			
Strapping, Heads, and Kit – Allows user to customize strap length														
DTRH-LR0	50' reel of strapping.	50.0	15,240	0.331	8.40	200	890	–	–	–	–	GTH-E, GS4EH-E, STH2, STHV	1	20
DTHH-Q0	25 cable tie heads.	–	–	–	–	–	–	0.393	9.98	0.557	14.15	–	25	500
DTKH-0	Kit: Strapping (50'), Heads (25)	50.0	15,240	0.331	8.40	200	890	0.393	9.98	0.557	14.15	GTH-E, GS4EH-E, STH2, STHV	1	20

Dura-Ty™ Cable Ties – Weather Resistant Acetal – Extra-Heavy Cross Section







- Acetal strap and head materials can provide 20 years + life in outdoor applications. Factors such as installation procedures, tooling and environmental conditions can influence the actual life
- Excellent ultraviolet light, chemical, and moisture resistance
- Double stainless steel locking barbs provide consistent and predictable holding values
- Ideal for securing cables in outdoor messenger strand applications
- Meets Telcordia TR-TSY-000789 industry guidelines for lashed cable supports
- Convenient reel dispenser pack allows installer to cut-to-size for customized field applications; recyclable box has through-hole for attaching to belt, plus storage area for bag of heads
- Several pre-cut sizes have lead-in style angled tips on pre-assembled straps for easy installation, even with gloved hands, to speed installation
- May be used with stackable aerial cable spacer on the next page

Formula to determine amount of strapping required:

Diameter (inches) x 3.14 + 4.5 inches
Diameter (mm) x 3.14 + 114mm

Part Number	Description	Strap Length		Strap Width		Min. Loop Tensile Str.		Head Height		Head Width		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		Ft.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm			
Strapping, Heads, and Kit – Allows user to customize strap length														
DTREH-LR0	50' reel of strapping.	50.0	15,240	0.500	12.70	250	1112	–	–	–	–	GS4EH-E	1	20
DTHEH-Q0	25 cable tie heads.	–	–	–	–	–	–					–	25	500
DTKEH-0	Kit: Strapping (50'), Heads (25)	50.0	15,240	0.500	12.70	250	1112	0.490	12.45	0.718	18.24	GS4EH-E	1	20

Part Number	Length		Width		Thickness		Nominal Hole Dia.		Max. Panel Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Discrete Lengths – Speed Installation																	
DT4EH-L0	13.5	343	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	3.8	98	250	1112	GS4EH	50	1000
DT8EH-Q0	27.0	686	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	8.0	203	250	1112		25	500
DT14EH-L0	48.0	1219	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	14.0	355	250	1112		50	250
DT15EH-L0	53.0	1346	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	15.0	381					
DT28EH-C0	96.0	2438	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	28.0	711	250	1112		100	–
DT44EH-C0	144.0	3658	0.500	12.70	0.059	1.50	0.490	12.45	0.718	18.24	44.0	1117					–

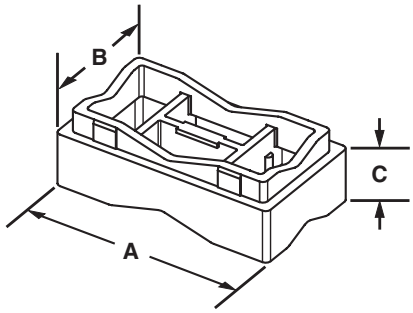
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Stackable Aerial Cable Spacer – Weather Resistant Polypropylene

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Each spacer snaps into another to increase spacer heights by 1/2" increments
- Designed for use in parallel or perpendicular applications
- For use with Dura-Ty™ Cable Ties shown on the previous page







Part Number	Length A		Width B		Height C		Used with Cable Ties*	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
SACS50-T100	2.08	52.8	1.16	29.5	0.71	18.0	LH, H, EH	200	2000

*Cable tie cross section sizes: LH = Light-Heavy, H = Heavy, and EH = Extra-Heavy.

Dome-Top® Barb Ty and Dura-Ty™ Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7

Material	Color	Panduit Suffix
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Nylon 6.6	Telephone Gray	14
Nylon 6.6	Black	20
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39
Flame Retardant Nylon 6.6	Natural (Ivory)	69
Weather Resistant Acetal	Black	*

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).
*Denotes Dura-Ty™ Weather Resistant Acetal material (no suffix).

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
			BC1M-S4-M	✓	0
			BC2M-S4-M	✓	0
			BC1.5I-S8-M	✓	0
BC2S-S10-C	✓	0	BC2S-S10-D	✓	0
			BC3S-S10-D	✓	0
BC4S-S10-C	✓	0	BC4S-S10-D	✓	0, 30
BC4LH-S25-L	✓	0	BC4LH-S25-TL	✓	0
BF1M-C	✓		BF1M-M	✓	0
BF2M-C	✓		BF2M-M	✓	0
BM1M-C	✓		BM1M-M	✓	0
BM2M-C	✓		BM2M-M	✓	0
BM2S-C	✓		BM2S-D	✓	0
BM4S-C	✓		BM4S-D	✓	0
			BP2S-D		0
BT1M-C	✓	0, 30	BT1M-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 30, 39, 69, 300
			BT1M-XMR	✓	0, 30
BT1.5M-C	✓	0	BT1.5M-M	✓	0, 30, 69
			BT1.5M-XMR	✓	0, 30
BT2M-C	✓	0	BT2M-M	✓	0, 2, 3, 4Y, 5, 6, 8, 30
BT4M-C	✓	0	BT4M-M	✓	0
BT1.5I-C	✓	0	BT1.5I-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 30, 39, 300
BT2I-C	✓	0	BT2I-M	✓	0, 30, 69, 300
BT3I-C	✓	0	BT3I-M	✓	0, 30
BT4I-C	✓	0	BT4I-M	✓	0
BT2S-C	✓	0	BT2S-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10, 20, 30, 39, 69, 300
BT3S-C	✓	0, 2	BT3S-M	✓	0, 30, 39
BT4S-C	✓	0	BT4S-M	✓	0, 2, 3, 4Y, 5, 6, 7, 8, 10, 30, 39, 300
BT2LH-L	✓	0	BT2LH-TL	✓	0, 300
BT3LH-L	✓	0	BT3LH-TL	✓	0
BT4LH-L	✓	0	BT4LH-TL	✓	0, 30, 39, 69, 300
BT5LH-L	✓	0	BT5LH-C	✓	0, 300
BT6LH-L	✓	0	BT6LH-C	✓	0
BT7LH-L	✓	0	BT7LH-C	✓	0
BT8LH-L	✓	0	BT8LH-C	✓	0
BT9LH-L	✓	0	BT9LH-C	✓	0
			BW1.5I-D	✓	
			BW2S-D	✓	0
			BW3S-D	✓	0
			B2M2S-D	✓	0
			B3M2S-TL	✓	0
			B4M2S-TL	✓	0
Dura-Ty™ Cable Ties and Strapping					
DTHEH-Q0, DTHH-Q0		*			
DTKEH-0, DTKH-0		*			
DTREH-LR0		*			
DTRH-LR0		*			
DT4EH-L0		*			
DT8EH-Q0		*			
DT14EH-L0		*	DT14EH-C0		*
DT15EH-L0		*			
DT28EH-C0		*			
DT44EH-C0		*			

*Denotes Dura-Ty™ Weather Resistant Acetal material (no suffix).

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Features and Benefits – Parallel-Entry Cable Ties

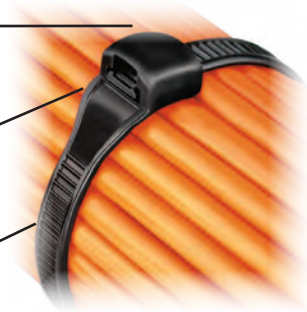
Parallel-entry cable ties limit exposure to sharp edges and protect workers' arms/hands. The ties are designed with a low profile head to avoid snags and reduce overall bundle size.

Contour-Ty® Cable Ties

Fully enclosed head for consistent strength

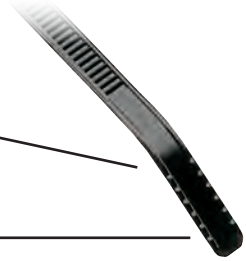
Fully rounded edges on head and strap

Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications



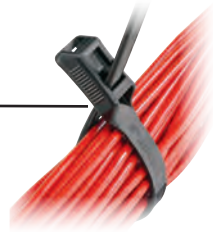
Curved tip threads easily and installs faster

Rounded tip and aggressive grip for faster initial threading



Hyper-V™ Cable Ties

Design provides for an optional threading position that allows releasable, temporary bundling



Fixed and flexible 2-wedge locking design



Tip bending serrations and threading hole facilitate installations in confined spaces



Belt-Ty™ In-Line Cable Ties



"Finger grip" shaped head assures positive grip while threading tie

Parallel-entry limits exposure to sharp edges and protects workers' arms/hands



IN-LINE Cable Ties

Outside teeth protect cable jacket and wire insulation



"Finger grip" shaped head with serrations assures positive grip while threading tie





Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.1 – B2.26.

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Selection Guide – Parallel-Entry Cable Ties






	Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Contour-Ty® Cable Ties	Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	CBR	B1.56
	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	CBR	B1.57
	Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	CBR	B1.58
	Heat Stabilized Nylon 6.6, Natural (39)	Locking Ties/Bundle	CBR	B1.58
	Flame Retardant Nylon 6.6, Ivory (69)	Locking Ties/Bundle	CBR	B1.58
Belt-Ty™ In-Line Cable Ties	Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	ILT	B1.59
	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	ILT	B1.59
Hyper-V™ Cable Ties	Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	HV	B1.60
IN-LINE Cable Ties	Weather Resistant Nylon 6.6, Black (0 and colors))	Locking Ties/Bundle	IT	B1.61

Part Number System for Contour-Ty® and Belt-Ty™ Cable Ties

CBR — **2** — **S** — **M** — **Material/Color**

Type
CBR = Locking Tie
ILT = Locking Tie

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
M = Miniature
I = Intermediate
S = Standard
HS = Heavy-Standard
LH = Light-Heavy

Package Size
C = 100
TL = 250
D = 500
M = 1000

Material/Color
See Page B1.62

Part Number System for Hyper-V™ and IN-LINE Cable Ties

HV — **9** — **100** — **C** — **Material/Color**

Type
HV = Locking Tie
IT = Locking Tie

Width
Approx. Width (mm)

Size
Approx. Maximum Bundle Dia. (mm)

Package Size
C = 100

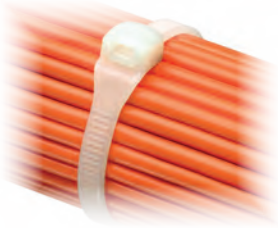
Material/Color
See Page B1.62

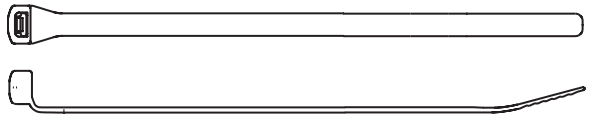
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Contour-Ty® Cable Ties – Nylon 6.6

- For indoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC
- Nylon 6.6 cable ties in natural and colors meet the testing requirements of SAE Aerospace Standard AS23190 and the dimensional requirements of SAE Aerospace Standard AS33671







Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section – Plenum Rated													
CBR1M-M	4.1	104	0.098	2.5	0.038	1.0	1.00	25	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
CBR1.5M-M	5.8	147	0.098	2.5	0.042	1.1	1.50	38					
CBR2M-M	7.3	185	0.098	2.5	0.042	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section – Plenum Rated													
CBR1.5I-M	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
CBR3I-M	10.4	264	0.140	3.6	0.052	1.3	3.00	76	40	178		1000	10000
CBR4I-M	13.6	345	0.140	3.6	0.052	1.3	4.00	102					
Standard Cross Section – Plenum Rated													
CBR2S-M	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M	14.0	356	0.190	4.8	0.052	1.3	4.00	102					
Heavy-Standard Cross Section – Plenum Rated													
CBR2HS-D	8.0	203	0.250	6.4	0.058	1.4	2.00	51	85	378	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	5000
Light-Heavy Cross Section – Plenum Rated													
CBR4LH-TL	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
CBR6LH-C	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000

Order number of pieces required, in multiples of Standard Package Quantity.

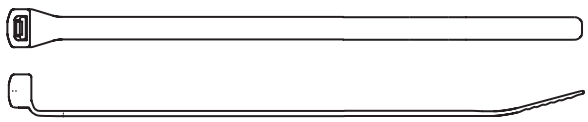
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Contour-Ty® Cable Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation







Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
CBR1M-M0	4.1	104	0.098	2.5	0.038	1.0	1.00	25	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
CBR1.5M-M0	5.8	147	0.098	2.5	0.042	1.1	1.50	38					
CBR2M-M0	7.3	185	0.098	2.5	0.042	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
CBR1.5I-M0	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
CBR3I-M0	10.4	264	0.140	3.6	0.052	1.3	3.00	76	40	178		1000	10000
CBR4I-M0	13.6	345	0.140	3.6	0.052	1.3	4.00	102					
Standard Cross Section													
CBR2S-M0	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M0	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M0	14.0	356	0.190	4.8	0.052	1.3	4.00	102					
Heavy-Standard Cross Section													
CBR2HS-D0	8.0	203	0.250	6.4	0.058	1.4	2.00	51	85	378	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	5000
Light-Heavy Cross Section													
CBR4LH-TL0	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
CBR6LH-C0	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000

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Contour-Ty® Cable Ties – Heat Stabilized and Flame Retardant Nylon 6.6

- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Flame retardant material has a flammability rating of UL 94V-0 – indoor use
- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation



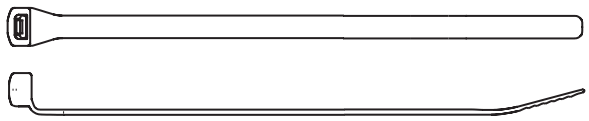
CBR2S-M30



CBR2S-M39



CBR3S-M69



Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Heat Stabilized Nylon 6.6 – Black													
Miniature Cross Section													
CBR1M-M30	4.1	104	0.098	2.5	0.038	1.0	0.90	25	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section													
CBR1.5I-M30	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
Standard Cross Section													
CBR2S-M30	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M30	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M30	14.0	356	0.190	4.8	0.052	1.3	4.00	102					
Light-Heavy Cross Section													
CBR4LH-TL30	14.6	371	0.300	7.6	0.070	1.8	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
CBR6LH-C30	20.9	531	0.300	7.6	0.070	1.8	6.00	152	120	534		100	2000
Heat Stabilized Nylon 6.6 – Natural													
Standard Cross Section													
CBR2S-M39	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
Flame Retardant Nylon 6.6 – Natural Ivory													
Standard Cross Section													
CBR3S-M69	10.8	274	0.190	4.8	0.052	1.3	3.00	76	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	5000

Note: UL Recognized, UL Listed, and CSA Certified, except CBR3S-M69.

Order number of pieces required, in multiples of Standard Package Quantity.

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Belt-Ty™ In-Line Cable Ties – Nylon and Weather Resistant Nylon 6.6

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Parallel-entry cable tie that threads like a belt (180° entry)
- Low profile head avoids snags and reduces overall bundle size
- Up to 35% lower head height than conventional 90° ties
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Nylon 6.6 cable ties are UL Listed for use in plenum or air handling spaces per NEC

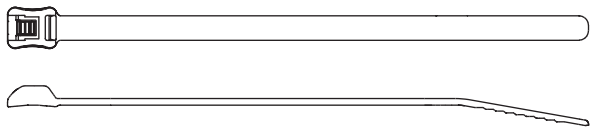


ILT2S-C



ILT2S-C0





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6 – Black													
Standard Cross Section – Plenum Rated													
ILT2S-C	8.3	211	0.190	4.8	0.052	1.3	1.88	48	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
ILT3S-C	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
ILT4S-C	14.7	373	0.190	4.8	0.052	1.3	4.00	102					
Light-Heavy Cross Section – Plenum Rated													
ILT4LH-TL	14.8	376	0.300	7.6	0.075	1.9	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
ILT6LH-C	21.2	538	0.300	7.6	0.075	1.9	6.00	152	120	534		100	2000
Weather Resistant Nylon 6.6													
Standard Cross Section													
ILT2S-C0	8.3	211	0.190	4.8	0.052	1.3	1.88	48	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
ILT3S-C0	11.5	292	0.190	4.8	0.052	1.3	3.00	76					
ILT4S-C0	14.7	373	0.190	4.8	0.052	1.3	4.00	102					
Light-Heavy Cross Section													
ILT4LH-TL0	14.8	376	0.300	7.6	0.075	1.9	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
ILT6LH-C0	21.2	538	0.300	7.6	0.075	1.9	6.00	152	120	534		100	2000

Weather resistant nylon 6.6 cable ties are UL Listed, and CSA Certified except ILT4LH/6LH.

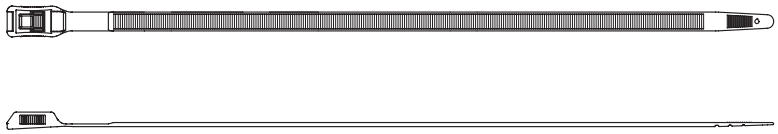
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Hyper-V™ In-Line Cable Ties – Weather Resistant Nylon 6.6

- Fixed and flexible two-wedge locking design provides a low threading force
- Teeth on both sides of cable tie body provide additional locking strength and improved flexibility to conform to irregular bundle shapes such as securing cables to cable tray systems
- Releasable head position for temporary bundling of cables prior to final locking; no need to replace ties when adding cables/wires to the bundle
- Teeth on full length of body support a wide range of bundle diameters
- Bending serrations on the tip of the tie allow the tip to be easily formed into an arc, enabling installer to “fish” the tie around the bundle in a confined space
- Threading hole in the tip of the tie allows an installer to hook the tip with a simple device to pull the tie through spaces with limited access
- In-Line tie design for parallel-entry of the tie into head resulting in a lower profile on cable bundles
- Complementary mounts shown below







Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
HV965-C0	10.4	265	0.350	8.9	0.076	1.9	2.60	65	160	710	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH, STHV	100	1000
HV9100-C0	14.4	367	0.350	8.9	0.076	1.9	3.90	100					
HV9150-C0	20.7	525	0.350	8.9	0.076	1.9	5.90	150					
HV9250-C0	33.1	841	0.350	8.9	0.076	1.9	9.80	250					

Hyper-V™ Cable Tie Mounts

- Tie mount has retaining tab within window to hold cable tie in position when pre-installed in the mount; low profile design keeps bundle close to mounting surface
- Masonry mounts are used to secure wire, cable, or tubing to masonry surfaces
- For outdoor use



HVTM



HVMPM

Part Number	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Tie Mounts					
HVTM-06-C0	Weather Resistant Nylon 6.6	Black	#12 (M6) screw	100	500
Masonry Mounts					
HVMPM-08-C0	Impact Modified Weather Resistant Nylon 6.6	Black	Fir tree hole mount	100	500

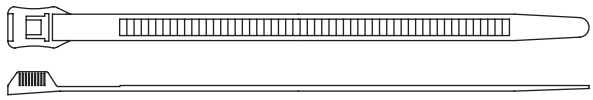
Order number of pieces required, in multiples of Standard Package Quantity.

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In-Line Cable Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Parallel-entry cable tie that threads like a belt (180° entry)
- Wide tie body provides high tensile strength
- Up to 50% lower head height than conventional 90° ties
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Outside teeth protect cable jacket and wire insulation
- "Finger grip" shaped head with serrations assures positive grip while threading tie
- Install by hand or use Panduit® GTH-E installation tool
- Flexible – easy to handle and install
- Available in UV weather resistant colors for color coordination and UV stability



Part Number	Color	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N		
Black Cable Ties													
IT940-C0	UV Black	6.8	173	0.350	8.9	0.065	1.7	1.57	40	124	552	100	1000
IT965-C0	UV Black	10.1	257	0.350	8.9	0.065	1.7	2.56	65				
IT9100-C0	UV Black	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9115-C0	UV Black	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
Colored Cable Ties													
IT9100-CUV2	UV Red	14.1	358	0.350	8.9	0.065	1.7	3.94	100	124	552	100	1000
IT9100-CUV4Y	UV Yellow	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9100-CUV6	UV Dark Blue	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9100-CUV6A	UV Light Blue	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9100-CUV7A	UV Purple	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9100-CUV8	UV Gray	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9100-CUV16B	UV Magenta	14.1	358	0.350	8.9	0.065	1.7	3.94	100				
IT9115-CUV2	UV Red	15.3	389	0.350	8.9	0.065	1.7	4.53	115	124	552	100	1000
IT9115-CUV2A	UV Bright Red	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV3	UV Orange	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV4Y	UV Yellow	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV4A	UV Butterscotch	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV5A	UV Green	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV5B	UV Hunter Green	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV6	UV Dark Blue	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV6A	UV Light Blue	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV6B	UV Cobalt Blue	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV7A	UV Purple	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV8	UV Gray	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV8A	UV Charcoal Gray	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV11	UV Teal	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV16B	UV Magenta	15.3	389	0.350	8.9	0.065	1.7	4.53	115				
IT9115-CUV18	UV Tan	15.3	389	0.350	8.9	0.065	1.7	4.53	115				

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Parallel-Entry Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39
Flame Retardant Nylon 6.6	Natural (Ivory)	69

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

Material	Color	Panduit Suffix
Nylon 6.6	Ultraviolet Red	UV2
Nylon 6.6	Ultraviolet Bright Red	UV2A
Nylon 6.6	Ultraviolet Orange	UV3
Nylon 6.6	Ultraviolet Yellow	UV4Y
Nylon 6.6	Ultraviolet Butterscotch	UV4A
Nylon 6.6	Ultraviolet Green	UV5A
Nylon 6.6	Ultraviolet Hunter Green	UV5B
Nylon 6.6	Ultraviolet Dark Blue	UV6
Nylon 6.6	Ultraviolet Light Blue	UV6A
Nylon 6.6	Ultraviolet Cobalt Blue	UV6B
Nylon 6.6	Ultraviolet Purple	UV7A
Nylon 6.6	Ultraviolet Gray	UV8
Nylon 6.6	Ultraviolet Charcoal Gray	UV8A
Nylon 6.6	Ultraviolet Teal	UV11
Nylon 6.6	Ultraviolet Magenta	UV16B
Nylon 6.6	Ultraviolet Tan	UV18

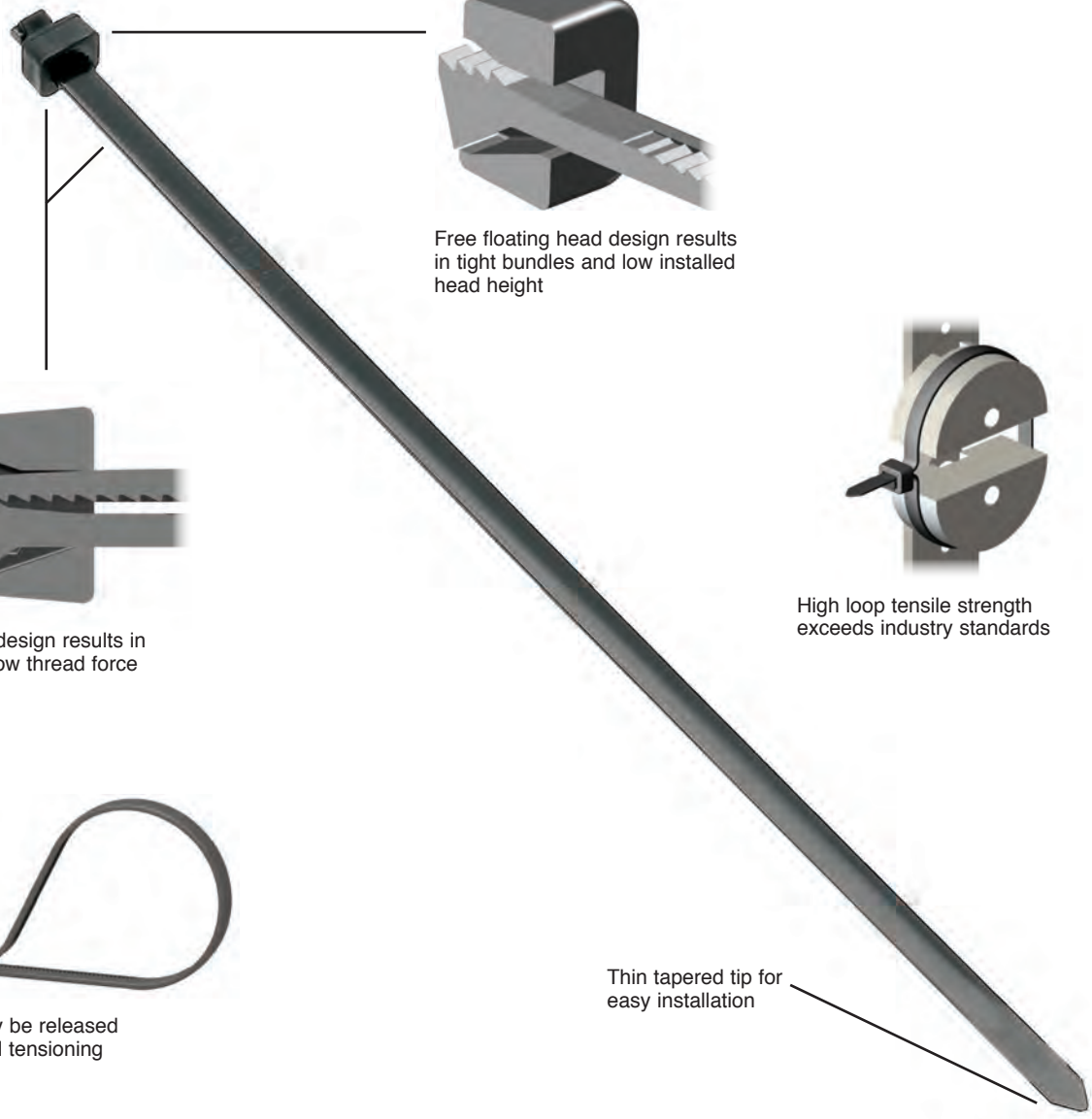
Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
			CBR1M-M	✓	0, 30
			CBR1.5M-M	✓	0
			CBR2M-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7
			CBR1.5I-M	✓	0, 30
			CBR3I-M	✓	0, 1, 2, 3, 4Y, 5, 6, 7, 8, 10
			CBR4I-M	✓	0
			CBR2S-M	✓	0, 30, 39
			CBR3S-M	✓	0, 30, 69
			CBR4S-M	✓	0, 30
			CBR2HS-D	✓	0
			CBR4LH-TL	✓	0, 30
			CBR6LH-C	✓	0, 30
			HV965-C		0
			HV9100-C		0
			HV9150-C		0
			HV9250-C		0
ILT2S-C	✓	0	**ILT2S-M**	✓	0
ILT3S-C	✓	0	**ILT3S-M**	✓	0
ILT4S-C	✓	0	**ILT4S-M**	✓	0
			ILT4LH-TL	✓	0
			ILT6LH-C	✓	0
			IT940-C		0
			IT965-C		0
			IT9100-C		0, UV2, UV4Y, UV6, UV7A, UV8, UV16B
			IT9115-C		0, UV2, UV2A, UV3, UV4Y, UV4A, UV5A, UV5B, UV6, UV6A, UV6B, UV7A, UV8, UV8A, UV11, UV16B, UV18

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Features and Benefits – Sta-Strap® Cable Ties

Two-piece design incorporates a separate nylon head and strap.



Free floating head design results in tight bundles and low installed head height

Two-piece design results in extremely low thread force

High loop tensile strength exceeds industry standards

Design may be released prior to final tensioning

Thin tapered tip for easy installation



Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

See pages B2.1 – B2.26.

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Selection Guide – Sta-Strap® Cable Ties



Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Nylon 6.6, Natural (No Suffix)	Locking Ties/Bundle	SST	B1.65
	Clamp Ties/Mount	SSC	B1.67
	Marker Ties/Identify	SSM	B1.68
Weather Resistant Nylon 6.6, Black (0)	Locking Ties/Bundle	SST	B1.66
	Clamp Ties/Mount	SSC	B1.67
	Marker Ties/Identify	SSM	B1.68
Heat Stabilized Nylon 6.6, Black (30)	Clamp Ties/Mount	SSC	B1.67

Part Number System for Sta-Strap® Cable Ties

SST **1** **M** — **C**

Type
SST = Locking Tie
SSC = Clamp Tie
SSM = Flag Tie

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
M = Miniature
I = Intermediate
S = Standard
H = Heavy
HH = Heavy Head

Screw Hole Size
(Clamp Ties Only)
-S6 = #6 (M3)
-S10 = #10 (M5)
-S25 = 1/4 (M6)

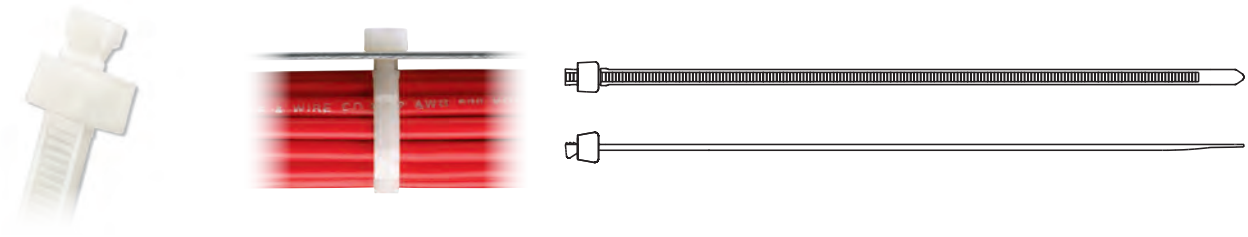
Package Size
L = 50
C = 100
D = 500
M = 1000

Material/Color
See Page B1.69

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Sta-Strap® Cable Ties – Nylon 6.6

- For indoor use
- Used for normal bundling and through-panel applications
- Small head height allows more efficient use of space in compact areas
- Exclusive two-piece design offers the lowest threading force in the industry
- Average 14% lighter than one-piece cable ties
- Releasable prior to final tensioning for bundle modifications



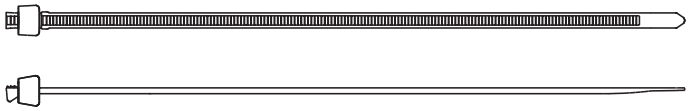
Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
SST1M-C	4.0	102	0.095	2.4	0.035	.9	.78	20	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
SST1.5M-C	5.5	140	0.095	2.4	0.037	.9	1.25	32					
Intermediate Cross Section													
SST1.5I-C	5.3	137	0.135	3.4	0.037	.9	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
SST2I-C	8.1	206	0.135	3.4	0.040	1.0	2.00	51					
SST3I-C	11.0	279	0.135	3.4	0.040	1.0	3.00	76					
SST4I-C	14.7	375	0.135	3.4	0.040	1.0	4.00	102					
Standard Cross Section													
SST1.5S-M	5.7	146	0.180	4.6	0.045	1.2	1.25	32	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	25000
SST2S-C	6.7	172	0.180	4.6	0.045	1.2	1.75	45	50	222		100	1000
SST3S-C	11.0	279	0.180	4.6	0.048	1.2	3.00	76					
SST4S-C	15.0	381	0.180	4.6	0.048	1.2	4.00	102					
Light-Heavy Cross Section													
SST2H-D	8.0	203	0.300	7.6	0.062	1.6	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	5000
SST4H-L	14.8	376	0.300	7.6	0.067	1.7	4.00	102	120	534		50	500
SST8H-L	27.5	699	0.300	7.6	0.067	1.7	8.00	203					

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Sta-Strap® Cable Ties – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used for normal bundling and through-panel applications
- Small head height allows more efficient use of space in compact areas
- Exclusive two-piece design offers the lowest threading force in the industry
- Average 14% lighter than one-piece cable ties
- Releasable prior to final tensioning for bundle modifications





Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
SST1M-C0	4.0	102	0.095	2.4	0.035	0.9	.78	20	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	100	1000
SST1.5M-M0	5.5	140	0.095	2.4	0.037	0.9	1.25	32	18	80		1000	50000
Intermediate Cross Section													
SST1.5I-M0	5.3	137	0.135	3.4	0.037	0.9	1.25	32	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
SST2I-M0	8.1	206	0.135	3.4	0.040	1.0	2.00	51					
SST3I-C0	11.1	279	0.135	3.4	0.040	1.0	3.00	76	40	178		100	1000
SST4I-M0	14.7	375	0.135	3.4	0.040	1.0	4.00	102	40	178		1000	10000
Standard Cross Section													
SST1.5S-M0	5.7	146	0.180	4.6	0.045	1.2	1.25	32	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	25000
SST2S-C0	6.7	172	0.180	4.6	0.045	1.2	1.75	45	50	222		100	1000
SST3S-C0	11.0	279	0.180	4.6	0.048	1.2	3.00	76					
SST4S-C0	15.0	381	0.180	4.6	0.048	1.2	4.00	102					
Light-Heavy Cross Section													
SST2H-D0	8.0	203	0.300	7.6	0.062	1.6	2.00	51	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	5000
SST4H-L0	14.8	376	0.300	7.6	0.067	1.7	4.00	102	120	534		50	500
SST8H-L0	27.5	699	0.300	7.6	0.067	1.7	8.00	203					

Order number of pieces required, in multiples of Standard Package Quantity.

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Sta-Strap® Clamp Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Design allows for bundling before or after screwing clamp in place
- Exclusive two-piece design offers the lowest threading force in the industry
- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Only clamp tie that is releasable prior to final tensioning

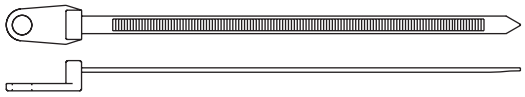


SSC2S-S10-C



SSC2S-S10-M0





Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Screw Size	Metric Screw Size	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Nylon 6.6																	
Standard Cross Section																	
SSC2S-S6-C	7.4	187	0.180	4.6	0.045	1.1	0.148	3.8	#6	M3	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
SSC2S-S10-C	7.4	187	0.180	4.6	0.045	1.1	0.200	5.1	#10	M5	1.75	45					
SSC4S-S10-C	15.7	398	0.180	4.6	0.045	1.1	0.200	5.1	#10	M5	4.00	102	50	222		100	500
Light-Heavy Cross Section																	
SSC4H-S25-L	15.6	395	0.300	7.6	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	500
Weather-Resistant Nylon 6.6																	
Standard Cross Section																	
SSC2S-S6-M0	7.4	187	0.180	4.6	0.045	1.1	0.148	3.8	#6	M3	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
SSC2S-S10-M0	7.4	187	0.180	4.6	0.045	1.1	0.200	5.1	#10	M5							
Light-Heavy Cross Section																	
SSC4H-S25-D0	15.6	395	0.300	7.6	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	2500
Heat Stabilized Nylon 6.6																	
Standard Cross Section																	
SSC2S-S10-M30	7.4	187	0.180	4.6	0.045	1.2	0.200	5.1	#10	M5	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
Light-Heavy Cross Section																	
SSC4H-S25-D30	15.6	395	0.300	7.6	0.065	1.7	0.260	6.6	1/4	M6	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	2500

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Sta-Strap® Marker Ties – Nylon and Weather Resistant Nylon 6.6

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Used to fasten and identify bundles at the same time
- Unique design allows tie to be used as a wrap-around or flag marker
- Can be marked with Panduit® Marker Pens on page B1.49 or computer printable labels

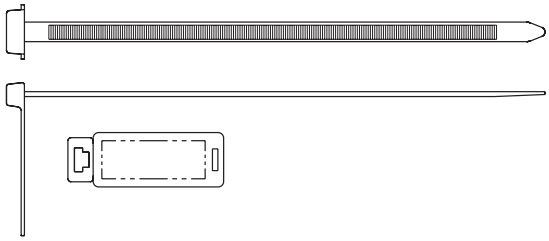


SSM2S-C



SSM2S-D0





Part Number	Marker Type	Length		Width		Thickness		Marker Write-On Area		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6																
Standard Cross Section																
SSM2S-C	Wrap/ Flag	6.7	170	0.180	4.6	0.045	1.1	0.44 x 0.96	11.2 x 24.4	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	500
SSM4S-D		14.9	378	0.180	4.6	0.045	1.1	0.44 x 0.96	11.2 x 24.4	4.00	102	50	222		500	5000
Weather Resistant Nylon 6.6																
Standard Cross Section																
SSM2S-D0	Wrap/ Flag	6.7	170	0.180	4.6	0.045	1.1	0.44 x 0.96	11.2 x 24.4	1.75	45	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH	500	10000

Order number of pieces required, in multiples of Standard Package Quantity.

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Sta-Strap® Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Red	2

Material	Color	Panduit Suffix
Nylon 6.6	Black	20
Heat Stabilized Nylon 6.6	Black	30

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
SSC2S-S6-C	✓		SSC2S-S6-M	✓	0
SSC2S-S10-C	✓		SSC2S-S10-M	✓	0, 30
SSC4S-S10-C	✓		SSC4S-S10-M	✓	0
SSC4H-S25-L	✓		SSC4H-S25-D	✓	0
SSM2S-C	✓		SSM2S-D	✓	0
			SSM4S-D	✓	
SST1M-C	✓	0	SST1M-M	✓	0, 20, 30
SST1.5M-C	✓		SST1.5M-M	✓	0, 20, 30
SST1.5I-C	✓		SST1.5I-M	✓	0
SST2I-C	✓		SST2I-M	✓	0, 20
SST3I-C	✓	0	SST3I-M	✓	0
SST4I-C	✓		SST4I-M	✓	0
			SST1.5S-M	✓	0
SST2S-C	✓	0	SST2S-M	✓	0, 20, 30
SST3S-C	✓	0	SST3S-M	✓	0, 20, 30
SST4S-C	✓	0	SST4S-M	✓	0, 2, 30
			SST2H-D	✓	0
			SST2HH-D		30
SST4H-L	✓	0	SST4H-D	✓	0, 30
		0	SST4HH-D		30
SST8H-L	✓	0	SST8H-D	✓	0, 30

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Selection Guide – Specialty Ties



	Material, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Stud Mounted Cable Ties	Heat Stabilized Nylon 6.6, Black (30)	Locking Ties/Bundle	PLST	B 1.71
		Releasable/Re-usable	PRST	B 1.71
	Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	Locking/Bundle	PLST	B 1.71
Ladder Style Stud Mount	Heat Stabilized Nylon 6.6, Black (30)	Releasable/Re-usable	PRST	B 1.72
Double Loop Ties – One-Piece	Nylon 6.6, Natural (No Suffix)	Locking/Bundle	PLB	B 1.72
	Weather Resistant Nylon 6.6, Black (0)			
	Heat Stabilized Nylon 6.6, Black (30)			
Double Loop Ties – Two-Piece	Nylon 6.6, Natural (No Suffix)	Locking/Bundle	SSB	B 1.73
	Weather Resistant Nylon 6.6, Black (0)			
	Heat Stabilized Nylon 6.6, Black (30)			
Triple Loop Ties	Weather Resistant Nylon 6.6, Black (0	Locking/Bundle	PL3B	B 1.74
Double Hose Clamp	Weather Resistant Nylon 6.6, Black (0	Locking/Bundle	DHC	B 1.74
Chassis/Panel Mount Ties	Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	Locking/Bundle	SSPM	B 1.75
Cable Marker Strap	Polyethylene (No Suffix)	Releasable/Re-usable	CM4S	B 1.76

Part Number System for Specialty Cable Ties

PLST **4** **H** **S25** — **TL** **300**

Type

CM4S = Cable Marker Strap
PLB = Locking Bow Tie
PL3B = Triple Loop Tie
DHC = Double Hose Clamp
PLST = Locking Stud Mounted Tie
PRST = Releasable Stud Mount Ladder Style
SSB = Sta-Strap® Bow-Ty™ Tie
SSPM = Sta-Strap® Panel Mount

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

S = Standard
H = Heavy
EH = Extra-Heavy

Stud Size

-S25 = M6
-SC = 5mm
-S14 = 5mm

Package Size

L = 50
C = 100
TL = 250
D = 500
M = 1000

Material/Color

See Page B1.77



Cable tie tools speed installation and reduce total installed cost.

Visit www.panduit.com/tools.



Cable tie accessories are used to speed and simplify the mounting of wires, cables, and tubing.

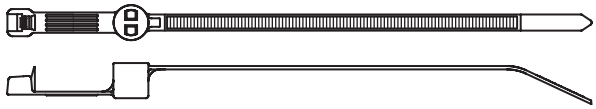
See pages B2.1 – B2.26.

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Pan-Ty® Stud Mounted Cable Ties – Heat Stabilized and Heat Stabilized Weather Resistant Nylon 6.6

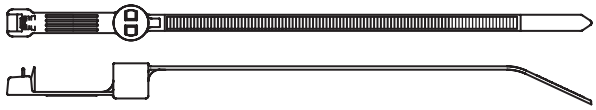
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- Heat stabilized weather resistant material has greater resistance to damage caused by ultraviolet light and for high temperature applications up to 293°F (115°C) – indoor or outdoor use
- Integral mount pushes onto a threaded stud and tie wraps around bundle
- Mid-mount style (PLST_SC) centers the wire bundle over the stud
- Tie can be removed from the stud by turning counterclockwise
- Releasable style available (PRST)
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





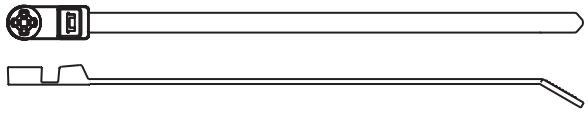
PLST30SC/50SC





PRST40SC





PLST4H

Part Number	Length		Width		Thickness		Recommended Stud Size		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Heat Stabilized Nylon 6.6															
Standard Cross Section															
PLST30SC-D30	5.7	146	0.190	4.8	0.050	1.3	10-24	5.0	1.18	30	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	500	5000
PLST50SC-D30	8.1	207	0.190	4.8	0.050	1.3	10-24	5.0	1.97	50					
PRST40SC-D30	6.9	176	0.190	4.8	0.050	1.3	10-24	5.0	1.57	40	50	222	Hand install only	500	5000
Heat Stabilized Weather Resistant Nylon 6.6															
Light-Heavy Cross Section															
PLST4HS25-TL300	15.3	389	0.300	7.6	0.075	1.9	1/4-20	6.4	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

Note: UL Recognized and CSA Certified except PLST4H.

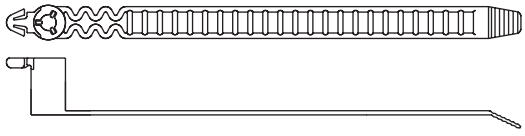
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Ty® Ladder Style Stud Mounted Cable Tie – Heat Stabilized Nylon 6.6

- For high temperature applications up to 239°F (115°C) – indoor use
- Integral mount pushes onto a threaded stud and tie wraps around bundle
- Tie can be removed from the stud by turning counterclockwise
- Adjustable, releasable, and re-usable
- Install by hand – no tools required







Part Number	Length		Width		Thickness		Boss Height		Recommended Stud Size		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N		
Standard Cross Section																
PRST30S-S14-M30	5.2	132	0.380	9.7	0.050	1.3	0.59	15	10-24	5.0	1.18	30	35	156	1000	10000

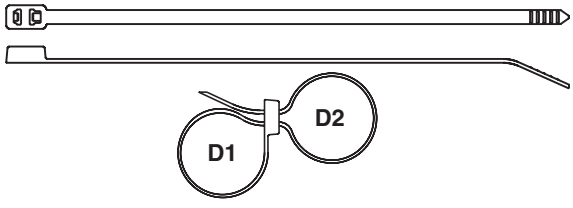
Pan-Ty® Double Loop Cable Ties

- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- A fast and economical method to secure and separate two bundles
- Reduces part number inventory – single part covers multiple bundle sizes
- Installs easily by hand – second loop can be installed with Panduit® cable tie installation tools


PLB4H
Head Design


PLB2S/3S/4S
Head Design





Assembled View

Part Number	Max. Combined Bundle Dia. D1 + D2		Length		Width		Thickness		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6													
Standard Cross Section													
PLB2S-C	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLB3S-C	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222			
PLB4S-C	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222			
Light-Heavy Cross Section													
PLB4H-TL	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
Weather Resistant Nylon 6.6													
Standard Cross Section													
PLB2S-C0	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	100	1000
PLB3S-C0	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222			
PLB4S-M0	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222		1000	5000
Light-Heavy Cross Section													
PLB4H-TL0	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
Heat Stabilized Nylon 6.6													
Standard Cross Section													
PLB2S-M30	1.80	46	7.6	193	0.190	4.8	0.052	1.3	50	222	GTS-E, GS2B-E, GTH-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
PLB3S-M30	3.00	76	11.8	300	0.190	4.8	0.052	1.3	50	222			
PLB4S-M30	4.10	104	14.8	376	0.190	4.8	0.052	1.3	50	222		1000	5000
Light-Heavy Cross Section													
PLB4H-TL30	3.60	91	14.7	373	0.300	7.6	0.075	1.9	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

Order number of pieces required, in multiples of Standard Package Quantity.

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Sta-Strap® Bow-Ty™ Cable Ties

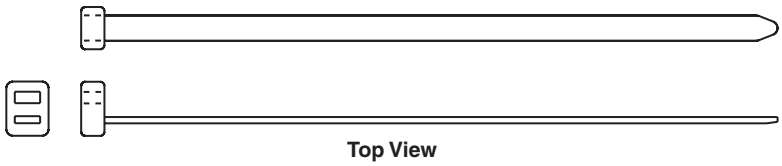
- Natural nylon material for indoor use
- Weather resistant material has greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Heat stabilized material for high temperature applications up to 239°F (115°C) – indoor use
- A fast and economical method to secure and separate two bundles
- Exclusive two-piece design offers the lowest threading force in the industry
- First loop is releasable prior to final tensioning



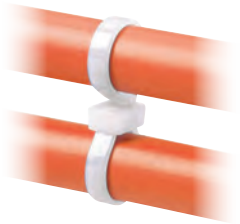
SSB2S-C

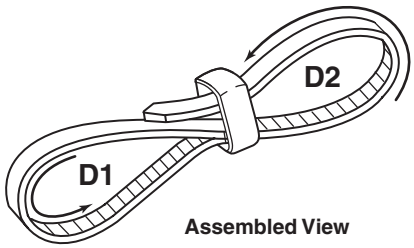


SSB2S-M0 (30)



Top View





Assembled View

Part Number	Max. Combined Bundle Dia. D1 + D2		Length		Width		Thickness		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Nylon 6.6													
Standard Cross Section													
SSB2S-C	1.25	32	6.8	172	0.18	4.6	0.045	1.1	30	133	Hand install only	100	1000
Weather Resistant Nylon 6.6													
Standard Cross Section													
SSB2S-M0	1.25	32	6.8	172	0.18	4.6	0.045	1.1	30	133	Hand install only	1000	10000
Heat Stabilized Nylon 6.6													
Standard Cross Section													
SSB2S-M30	1.25	32	6.8	172	0.18	4.6	0.045	1.1	30	133	Hand install only	1000	10000

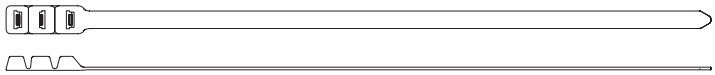
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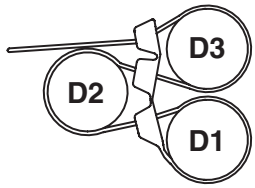
Pan-Ty® Triple Loop Cable Tie – Weather Resistant Nylon 6.6

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- A fast and economical method to secure and separate three bundles
- Third loop can be installed with Panduit® cable tie installation tools









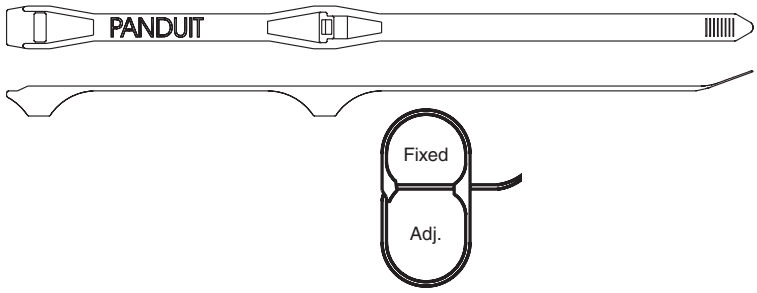
Assembled View

Part Number	Max. Combined Bundle Dia. D1 + D2 + D3 In.	mm	Length In.	mm	Width In.	mm	Thickness In.	mm	Min. Loop Tensile Str. Lbs.	N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Extra-Heavy Cross Section													
PL3B5EH-C0	5.00	127	20.0	508	0.500	12.7	0.075	1.9	125	556	GS4EH-E, ST3EH	100	1000

Double Hose Clamp – Weather Resistant Nylon 6.6

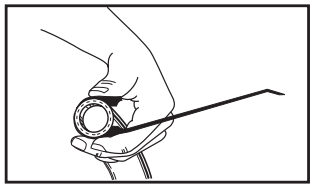
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Holds and separates two gasoline, hydraulic, or pneumatic hoses
- Holds each hose individually to prevent abrasion and twisting



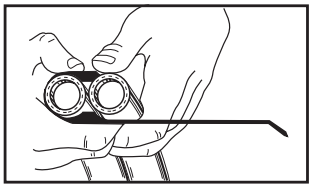


Assembled View

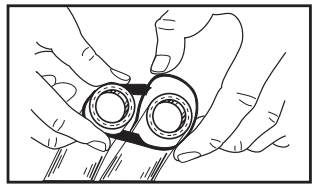
Part Number	Length In.	mm	Width In.	mm	Thickness In.	mm	Fixed Loop Dia. In.	mm	Adjustable Loop Dia. In.	mm	Min. Loop Tensile Str. Lbs.	N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
DHC1.12X1.75-D0	11.0	279	0.280	7.1	0.050	1.3	1.12	28	1.00 – 1.75	25 – 44	100	445	GTH-E, GS4H-E, PTH, STH2, ST3EH	500	2500



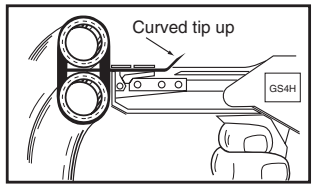
1) Wrap clamp around hose



2) Position second hose in clamp



3) Loop tail around second hose and thread tail through both spacer heads



4) Tension and cut off with recommended tool

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Ty® Double Clamp Cable Ties





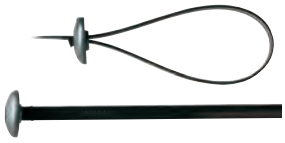
Materials: Nylon 6/6, Heat stabilized (continuous use temperature rating of 115°C), UV weather resistant and impact modified

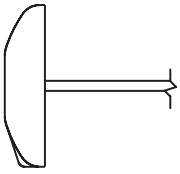
Part Number	Max. Bundle Dia.		Length		Width		Thickness		Min. Loop Tensile		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
PLDC1.5EH-C350	1.3	33	13.1	332.7	0.5	12.73	0.057	1.5	150	667.2	GS4EH-E, PPTEH	100	500
PLDC2.5EH-C350	2.3	58.4	19.28	489	0.5	12.73	0.057	1.5	150	667.2			

Sta-Strap® Chassis/Panel Mount Ties – Heat Stabilized Weather Resistant Nylon 6.6

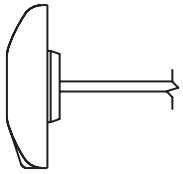
- Greater resistance to damage caused by ultraviolet light and for high temperature applications up to 239°F (115°C) – indoor or outdoor use
- Unique design allows tie to secure a bundle directly to a chassis or panel without the need for separate fasteners or mounting devices
- Releasable prior to final tensioning for bundle modifications
- Engages clearance hole with optional centering pilot to prevent tie from shifting or abrading in high vibration environments



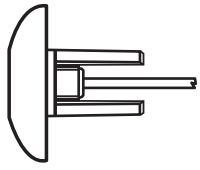




Without Centering Pilot



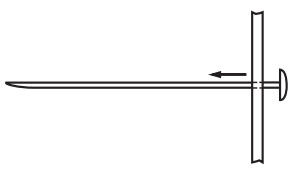
With Centering Pilot



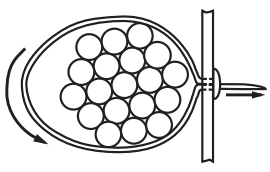
With Long Centering Pilot

Part Number	Length		Width		Thickness		Hole Diameter Range		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Without Centering Pilot															
SSPM2.5H-L300	10.1	257	0.300	7.6	0.062	1.6	0.316 – 0.820	8.0 – 21.0	2.76	70	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	2500
SSPM4H-L300	14.8	376	0.300	7.6	0.062	1.6	0.316 – 0.820	8.0 – 21.0	4.00	102					
With Centering Pilot															
SSPM2.5HP-L300	10.1	257	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	2.76	70	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	50	2500
SSPM4HP-L300	14.8	376	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	4.00	102					
With Long Centering Pilot															
SSPM4HLP-TL300	14.8	376	0.300	7.6	0.062	1.6	0.440 – 0.820	11.2 – 21.0	4.00	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500

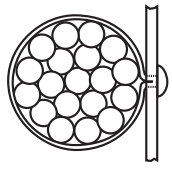
Through-Panel Mount Installation in Three Easy Steps:



1) Insert tip of cable tie through the pre-drilled hole in the panel.



2) Wrap cable tie around the bundle and insert tip back through the hole and head of the cable tie.



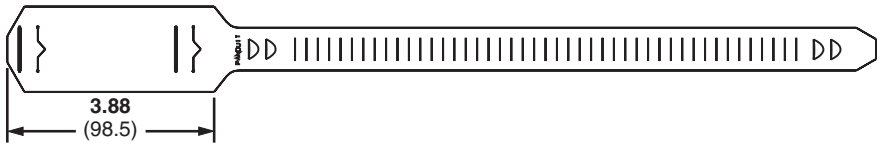
3) Pull tip until cable tie is snug on bundle. Tension and cut off excess portion with installation tool.

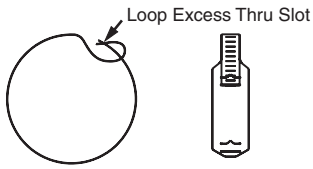
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Cable Marker Straps – Polyethylene

- Identify and code telephone and fiber optic cable
- Eliminate the need for costly and cumbersome lead marking tags
- Lightweight and easy to install
- Use as wrap-around or flag marker
- For underground identification applications
- Can be marked with Panduit® marker pens, see page B1.49
- Custom imprinting with text, symbols, or trademarks available using Panduit Custom Hot Stamping Service, see page B1.89









Wrap-Around Marker (Min. Dia.: 1.27")



Flag Marker (Min. Dia.: 0.25")

Part Number	Length		Width		Thickness		Color	Marker Write-On Area		Max. Bundle Dia.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm		In.	mm	In.	mm			
Extra-Heavy Cross Section														
CM4S-L2	15.3	387	0.750	19.1	0.033	0.84	Red	1.50 x 2.62	38.1 x 66.5	4.38	111	Hand install only	50	500
CM4S-L8	15.3	387	0.750	19.1	0.033	0.84	Gray							

Order number of pieces required, in multiples of Standard Package Quantity.

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Specialty Cable Ties

Material and Color Chart

Material	Color	Panduit Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Red	2
Nylon 6.6	Gray	8

✓Denotes Panduit® Natural Nylon 6.6 (no suffix).

Material	Color	Panduit Suffix
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Weather Resistant Nylon 6.6	Black	300

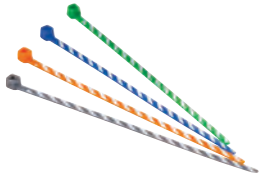
Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
CM4S-L		2, 8			
			DHC1.12X1.75-D		0
PLB2S-C	✓	0	PLB2S-M	✓	0, 30
PLB3S-C	✓	0	PLB3S-M	✓	0, 30
PLB4S-C	✓		PLB4S-M	✓	0, 30
			PLB4H-TL	✓	0, 30
			PL3B5EH-C		0
			PLST4HS25-TL		300
			PLST30SC-D		30
			PLST50SC-D		30
			PRST30S-S14-M		30
			PRST40SC-D		30
SSB2S-C	✓		SSB2S-M	✓	0, 30
SSPM2.5H-L		300	SSPM2.5H-TL		300
SSPM2.5HP-L		300	SSPM2.5HP-TL		300
SSPM4H-L		300	SSPM4H-TL		300
SSPM4HP-L		300	SSPM4HP-TL		300
			SSPM4HLP-TL		300

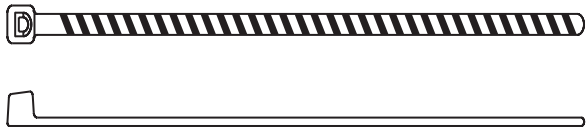
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Ty® Striped Cable Ties – Nylon 6.6

- Nylon material for indoor use
- Striped Pan-Ty® Cable Ties in 25 color combinations match the universally accepted Even-Count Color Code
- Solid color ties are available for identification of "super groups" in cable containing more than 600 pairs
- Each 50-piece package fits in the Pan-Pouch™ Kit or pocket pouch shown on the next page







Part Number	Color	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N		
Miniature Cross Section (Straight Tip)													
PLT1M-L6-10	Blue/White Stripe	4.0	102	0.100	2.5	0.036	0.9	0.82	21	18	80	50	1000
PLT1M-L3-10	Orange/White Stripe												
PLT1M-L5-10	Green/White Stripe												
PLT1M-L1-10	Brown/White Stripe												
PLT1M-L8-10	Slate/White Stripe												
PLT1M-L6-2	Blue/Red Stripe												
PLT1M-L3-2	Orange/Red Stripe												
PLT1M-L5-2	Green/Red Stripe												
PLT1M-L1-2	Brown/Red Stripe												
PLT1M-L8-2	Slate/Red Stripe												
PLT1M-L6-0	Blue/Black Stripe												
PLT1M-L3-0	Orange/Black Stripe												
PLT1M-L5-0	Green/Black Stripe												
PLT1M-L1-0	Brown/Black Stripe												
PLT1M-L8-0	Slate/Black Stripe												
PLT1M-L6-4	Blue/Yellow Stripe												
PLT1M-L3-4	Orange/Yellow Stripe												
PLT1M-L5-4	Green/Yellow Stripe												
PLT1M-L1-4	Brown/Yellow Stripe												
PLT1M-L8-4	Slate/Yellow Stripe												
PLT1M-L6-7	Blue/Violet Stripe												
PLT1M-L3-7	Orange/Violet Stripe												
PLT1M-L5-7	Green/Violet Stripe												
PLT1M-L1-7	Brown/Violet Stripe												
PLT1M-L8-7	Slate/Violet Stripe												
PLT1M-L0	Black												
PLT1M-L1	Brown												
PLT1M-L2	Red												
PLT1M-L3	Orange												
PLT1M-L4Y	Yellow												
PLT1M-L5	Green												
PLT1M-L6	Blue												
PLT1M-L8	Slate												

Note: CSA Certified on solid colors only.
Note: All part numbers have the same dimensions.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Telephone Cable Identification Kits

- Pan-Pouch™ Kit is made of two-ply laminated black nylon/vinyl and folds for easy storage
- Easily hang pouch from cable by using hook and loop fasteners
- Pocket pouch holds five (50-piece) packages and is made of a white vinyl



PPC25X50F



PP5X50F

Part Number	Description	Dimensions		Std. Pkg. Qty.
		Open	Closed	
PPC25X50F	Pouch filled with 1,250 cable ties (50 each of all 24 striped ties and 50 solid red ties)	10.5" x 38" (267mm x 965mm)	10.5" x 6" (267mm x 152mm)	1
PPC25X50	Empty pouch			
PP5X50F	Pocket pouch filled with 250 cable ties (50 of each color: blue, orange, green, brown and slate – all with white stripe)	—	3.5" x 5.25" (89mm x 133mm)	

Cable Tie Kits in Steel Boxes



K-205



K-504/SR2

Part Number	Part Description	Std. Pkg. Qty.
K-205	**Kit for Indoor Use** Pan-Ty® Cable Ties, cable tie installation tool, terminals, splices and crimp tool: (1) GTS tool (1) CT-100 crimp tool Natural Nylon 6.6 Cable Ties (100) PLT1M (100) PLT1.5I (100) PLT2S Terminals (100) PV18-6LF (100) PV14-8LF (100) PV14-10LF (50) PV10-10LF Splices (50) BSV10X (100) BSV14X (100) BSV18X	1
K-504	**Kit for Indoor Use** Pan-Ty® Cable Ties, cable tie installation tool, and mounts: (1) STS2 tool Natural Nylon 6.6 Cable Ties (100) PLT1M (100) PLT1.5I (100) PLT2S (100) PLC2S-S10 Mounts (100) TM2S8 (100) ABM2S-A	
SR2	Two-drawer slide rack to hold K-504 cable tie kit or K-1000 series terminal kit. Dimensions: 6.25"H x 15.25"W x 11.75"D (158.7mm x 387.4mm x 298.5mm)	

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Cable Tie Kits in Plastic Boxes and Bags



KP-506A



KP-506A-0



KP-509



KB-550



KB-551

Part Number	Part Description	Std. Pkg. Qty.
KP-506A	**Kit for Indoor Use** Pan-Ty® Cable Ties and Mounts: Natural Nylon 6.6 (100) PLT1M (100) PLT1.5I (100) PLT2S (50) ABM2S-A mounts	
KP-506A-0	**Kit for Outdoor Use** Pan-Ty® Cable Ties and Mounts: Black Weather Resistant Nylon 6.6 (100) PLT1M-0 (100) PLT1.5I-0 (100) PLT2S-0 (50) ABM2S-AT-0 mounts	
KP-509	**Kit for Indoor Use** For prototyping and new product development – contains over 600 pieces. Pan-Ty® Cable Ties in different styles, sizes, and colors. Huge assortment of cable tie mounts and wiring accessories.	
KB-550	**Assortment Pack for Indoor and Outdoor Use** Pan-Ty® Cable Ties: Natural Nylon 6.6 (15) PLT1M (15) PLT1.5I (15) PLT2S (15) PLT3S Black Weather Resistant Nylon 6.6 (10) PLT1M-0 (10) PLT1.5I-0 (10) PLT2S-0 (10) PLT3S-0	1
KB-551	**Assortment Pack for Indoor and Outdoor Use** Dome-Top® Barb Ty Cable Ties: Natural Nylon 6.6 (15) BT1M (15) BT1.5I (15) BT2S (15) BT3S Black Weather Resistant Nylon 6.6 (10) BT1M-0 (10) BT1.5I-0 (10) BT2S-0 (10) BT3S-0	

Order number of pieces required, in multiples of Standard Package Quantity.

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Features and Benefits – Hook and Loop Cable Ties

The comprehensive family of hook and loop cable ties delivers reliability by protecting against over-tensioning of high performance fiber and copper cables. These ties are adjustable, releasable, and re-usable to effectively support frequent moves, adds, and changes (MACs). A wide range of colors provides flexibility and an aesthetically pleasing appearance. The complete line of Panduit® Hook and Loop Cable Ties help maintain the reliable, scalable, and aesthetic requirements of data centers.

Tak-Ty® Hook & Loop Cable Ties – Premium, durable designs and sizes

Loop Style



Allows for pre-wrapping of bundles

Roll/Strip/Brick Style



Available in continuous or perforated rolls and stacked strips

Plenum Rated



Distinctive maroon color (also available in black)

Tak-Tape™ Hook & Loop Rolls



Ultra-Cinch™ Hook & Loop Cable Ties





Wire management accessories speed and simplify the mounting of high performance cabling.

See pages B2.4, B2.10, B2.19, B2.22, C4.2, C4.3 and C4.7.

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Selection Guide – Hook and Loop Cable Ties



Product, Color (Suffix)	Style/Function	Part Number Prefix	Catalog Page
Tak-Ty® Ties, Black (0)	Loop Ties/Re-usable	HLT	B1.83
	Strip Ties/Re-usable	HLS	B1.83
	15' and 75' Rolls/Re-usable	HLM, HLS	B1.83
	Strip Ties/Re-usable/Brick	HLB	B1.83
Tak-Ty® Plenum-Rated Ties, UL Listed Black, Maroon (0, 12)	Loop Ties/Re-usable	HLTP	B1.84
	Strip Ties/Re-usable	HLSP	B1.84
Tak-Tape™ Rolls, Black (0)	20' and 35' Rolls/Re-usable	TTS	B1.84
Ultra-Cinch™ Ties, Black (0)	Cinch Ties/Re-usable	UCT	B1.85
	Cinch Ties – Center Mount Grommet/Re-usable	UGCTC	B1.85
	Cinch Ties – End Mount Grommet/Re-usable	UGCTE	B1.85

Part Number System for Hook and Loop Ties

HLT – **2** **I** – **X** **0**

Type

HL = Hook and Loop
HLB = HL Brick
HLM = HL Miniature
HLT = HL Loop Tie
HLTP = HL Loop Tie Plenum-Rated
HLS = HL Strip Tie
HLSP = HL Strip Tie Plenum-Rated
TTS = Tak-Tape™ Roll
UCT = Ultra-Cinch™ Tie
UGCTC = UCT Grommet Cinch Tie – Center Mount
UGCTE = UCT Grommet Cinch Tie – End Mount

Size

Approx. Maximum Bundle Dia. (In.)

Cross Section

I = Intermediate
S = Standard

Package Size

X = 10
C = 100
15R = 15' Roll
20R = 20' Roll
35R3 = 35' Rolls (3)
35RX = 35' Rolls (10)
75R = 75' Roll

Color

See Page B1.86

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Tak-Ty® Hook & Loop Cable Ties

- Soft, premium material is safe to use on high performance cabling protecting against over-tensioning
- Broadest selection of durable designs and sizes to meet your application needs
- Adjustable, releasable, and re-usable multiple times – ideal for applications requiring frequent moves, adds, or changes
- A full range of colors
- Operating temperature range: 0°F to 220°F (-18°C to 104°C)
- Complementary mounts available, see page B2.5

Note: Minimum 2" overlap required to achieve loop tensile rating.



HLT (Loop Ties)



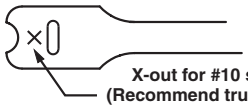
HLS (Strip Ties)



HLM/HLS (Rolls)



HLB2S (Stacked Strips)









Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
Loop Ties – Slot allows for pre-wrapping of bundles										
HLT2I-X0	8.0	203	0.500	12.7	1.91	49	40	178	10	100
HLT3I-X0	12.0	305	0.500	12.7	3.18	81				
Strip Ties – Perforated in convenient 6", 12", and 18" strips										
HLS1.5S-X0	6.0	152	0.750	19.1	1.50	38	50	222	10	100
HLS3S-X0	12.0	305	0.750	19.1	3.20	81				
HLS5S-X0	18.0	457	0.750	19.1	5.00	127				
Stacked Strip Ties – Eliminates cutting ties to length and staging them for each job Rounded edges for installer safety – 100 pieces										
HLB2S-C0	7.0	178	0.750	19.1	1.60	41	50	222	100	1000

Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste										
HLM-15R0	15.0	4.6	0.330	8.4	Various	Various	40	178	1	10
HLS-15R0	15.0	4.6	0.750	19.1			50	222		
HLS-75R0	75.0	22.9	0.750	19.1			50	222		

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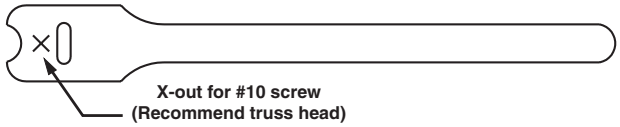
Tak-Ty® Hook & Loop Cable Ties – Plenum Rated

- Soft, premium material is safe to use on high performance cabling protecting against over-tensioning
- UL Listed for use in plenum or air handling spaces (such as ceiling voids and underfloor areas) per NEC, Section 300-22 (C) and (D)
- Flammability rating: UL 94V-2
- Adjustable, releasable, and re-usable multiple times – ideal for applications requiring frequent moves, adds, or changes
- Operating temperature range: 0°F to 122°F (-18°C to 50°C)

Note: Minimum 2" overlap required to achieve loop tensile rating.







Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
UL Listed Loop Ties (Maroon) – Slot allows for pre-wrapping of bundles										
HLTP2I-X12	8.0	203	0.500	12.7	1.91	49	40	178	10	100
HLTP3I-X12	12.0	305	0.500	12.7	3.18	81				
UL Listed Loop Ties (Black) – Slot allows for pre-wrapping of bundles										
HLTP2I-X0	8.0	203	0.500	12.7	1.91	49	40	178	10	100
HLTP3I-X0	12.0	305	0.500	12.7	3.18	81				
UL Listed Strip Ties (Maroon) – Perforated in convenient 6", 12", and 18" strips										
HLSP1.5S-X12	6.0	152	0.750	19.1	1.50	38	50	222	10	100
HLSP3S-X12	12.0	305	0.750	19.1	3.20	81				
HLSP5S-X12	18.0	457	0.750	19.1	5.00	127				
UL Listed Strip Ties (Black) – Perforated in convenient 6", 12", and 18" strips										
HLSP1.5S-X0	6.0	152	0.750	19.1	1.50	38	50	222	10	100
HLSP3S-X0	12.0	305	0.750	19.1	3.20	81				
HLSP5S-X0	18.0	457	0.750	19.1	5.00	127				

Tak-Tape™ Hook & Loop Cable Tie Rolls

- Strong, low profile, flexible material is safe to use on high performance cabling protecting against over-tensioning
- Adjustable, releasable, and re-usable
- Cost-effective for general purpose bundling
- Continuous rolls can be easily cut to size – Panduit® cutter included with TTS-35RX0
- Handy, re-usable plastic case with TTS-20R0, keeps material clean
- Leaves no residue
- Available in black color
- Operating temperature range: -22°F to 194°F (-30°C to 90°C)
- Complementary mounts available, see page B2.5

Note: Minimum 2" overlap required to achieve loop tensile rating.





Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
TTS-20R0	20.0	6.1	0.750	19.1	Various	Various	40	178	1	10
TTS-35R3-0	35.0	10.7	0.750	19.1	Various	Various	40	178	1	8
TTS-35RX0	35.0	10.7	0.750	19.1	Various	Various	40	178	1	10

Std. Pkg. Qty. of TTS-35R3-0 denotes 1 package of three 35' rolls, TTS-35RX0 denotes 1 package of ten 35' rolls.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ultra-Cinch™ Hook & Loop Cable Ties

- Unique material with hooks and loops on same side allows user to secure a greater range of bundle diameters, including smaller bundles
- Soft, premium material is safe to use on high performance cabling, protecting against over-tensioning
- Adjustable, releasable, and re-usable multiple times – ideal for applications requiring frequent moves, adds, or changes
- Low profile contoured cinch ring provides extra strength and bundle tightness while reducing overall bundle size
- Grommet (UGCTC and UGCTE styles) offers strength and assures reliable installations that resist pullout when bundling and mounting cables within cabinet applications
- Tapered tip facilitates easy, snag-free threading to speed installation
- Use flat-head screws for grommet applications shown below

Note: Minimum 2" overlap required to achieve loop tensile rating.







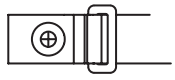




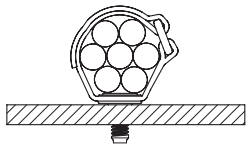
UCT



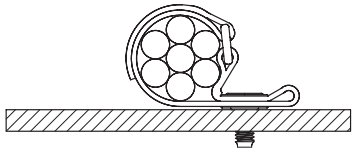
UGCTC



UGCTE



UGCTC
Bundle is centered over mounting point



UGCTE
Bundle is offset from mounting point

Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	Lbs.	N		
Cinch Ties										
UCT3S-X0	12.0	305	0.850	21.6	3.00	76	50	222	10	100
UCT5S-X0	18.0	457	0.850	21.6	5.00	127				
Cinch Ties – Center Mount Grommet (Bundle is centered over mounting point)										
UGCTC3S-X0	12.0	305	0.850	21.6	3.00	76	50	222	10	100
UGCTC5S-X0	18.0	457	0.850	21.6	5.00	127				
Cinch Ties – End Mount Grommet (Bundle is offset from mounting point)										
UGCTE3S-X0	12.0	305	0.850	21.6	3.00	76	50	222	10	100
UGCTE5S-X0	18.0	457	0.850	21.6	5.00	127				

Note: 1/4" (6mm) diameter mounting hole on grommet style cinch ties.

Flat Head Screws for Grommet Cinch Ties

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
UCTGS1224-X	12-24 UNC x 5/8mm (.625") flat head phillips screw	10	100
UCTGSM5-X	M5 x 16mm flat head phillips screw		
UCTGSM6-X	M6 x 16mm flat head phillips screw		

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Hook and Loop Cable Ties

Color Chart

Color	Panduit® Suffix
Black	0
Red	2
Orange	3
Yellow	4
Green	5

Color	Panduit Suffix
Blue	6
Gray	8
White	10
Maroon	12

Part Number Availability List

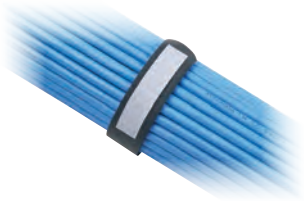
Standard Packaging	
Part Number	**Color**
HLB2S	0
HLM-15R	0, 2, 3, 4, 5, 6, 8, 10
HLS-15R	0, 2, 3, 4, 5, 6, 8, 10
HLS-75R	0, 2, 3, 4, 5, 6, 8, 10
HLS1.5S-X	0, 2, 3, 4, 5, 6, 8, 10
HLS3S-X	0, 2, 3, 4, 5, 6, 8, 10
HLS5S-X	0, 2, 3, 4, 5, 6, 8, 10
HLSP1.5S-X	0, 12
HLSP3S-X	0, 12
HLSP5S-X	0, 12
HLT2I-X	0, 2, 3, 4, 5, 6, 8, 10
HLT3I-X	0, 2, 3, 4, 5, 6, 8, 10
HLTP2I-X	0, 12
HLTP3I-X	0, 12
TTS-20R	0
TTS-35RX	0
TTS-35R3	0
UCT3S-X	0, 2, 3, 4, 5, 6, 8, 10
UCT5S-X	0, 2, 3, 4, 5, 6, 8, 10
UGCTC3S-X	0, 2, 3, 4, 5, 6, 8, 10
UGCTC5S-X	0, 2, 3, 4, 5, 6, 8, 10
UGCTE3S-X	0, 2, 3, 4, 5, 6, 8, 10
UGCTE5S-X	0, 2, 3, 4, 5, 6, 8, 10

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HLW Marker Hook and Loop Wrap Ties

- Safe choice for network cable bundling
- Re-usable multiple times; use where frequent moves, adds, and changes are anticipated
- Black tie contains a white rectangular “write-on” area where users can write a message using Panduit® permanent marking pens on page B2.26
- Minimum 2" overlap required to achieve loop tensile rating



Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Marker Write-on Area In.	Marker Write-on Area mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section (Straight Tip)														
HLWM1.5S-X0	1.5	38	6.0	152	0.790	20.1	0.17	4.3	2.5 x 0.50	63.5 x 12.7	50	222	10	100
HLWM3S-X0	3.2	81	12.0	305										

Elastomeric Cable Ties – ERT

- Elastic material provides a flexible tie body that safely contours around cable bundle to prevent over-tensioning of data cables to maintain network integrity
- UL 94V-0 material provides greater flame resistance and meets stringent telecommunication flammability requirements (i.e. NEBS GR-63-CORE)
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Soft material has no sharp edges to protect the installer and cable bundle for improved jobsite safety and reliability
- The high coefficient of friction material provides a tight grip and prevents lateral movement along cable bundle, minimizing overall installation time and potential re-work
- Releasable design allows release and re-use to accommodate frequent moves, adds, and changes to support evolving equipment and cabling needs
- Halogen-free, non-toxic and environmentally safe material will not release toxic or corrosive gases upon combustion
- Locking head design; the tapered tip tail threads into locking head to speed productivity; industry-accepted, intuitive tie design



Part Number	Color	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Head Height In.	Head Height mm	Head Width In.	Head Width mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
ERT2M-C20	Black	8.5	216	0.500	12.70	0.090	2.29	0.323	8.20	0.841	21.36	18	80	100	1000
ERT3M-C20		11.0	279												
ERT4.5M-C20		16.0	406												

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Cable Bundle Organizing Tool

- Reduces cable installation time up to 50% compared to traditional methods
- Arranges 24 cables prior to applying Panduit® network cable ties
- Optimizes bundle size and improves installed appearance
- Two inserts handle multiple network cable diameters
- Unique design allows twist-free bundling from the end or the middle of bundle
- Smooth edges; safe for use on network cables preventing cable abrasion
- Ergonomic fit and compact design
- Impact resistant material and low friction design to glide smoothly across cable bundle



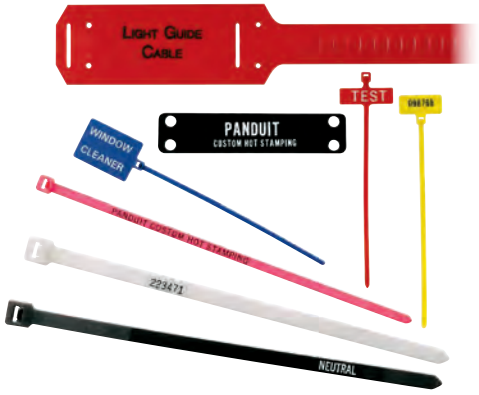
Part Number	Description	Recommended for Cable Outer Diameter Range	Use the Following Insert	Insert Used with the Following Panduit® Cable Types	Std. Pkg. Qty.	Std. Ctn. Qty.
CBOT24K	Kit contains jacket cover with hook and loop fastener and two inserts.	0.180" – 0.248" (4.57mm – 6.30mm)	Fluorescent Green	TX5500™ Category 5e UTP TX6000™ Category 6 UTP	1	10
		0.230" – 0.310" (5.84mm – 7.87mm)	Fluorescent Yellow	TX6500™ Enhanced Category 6 TX6A™ 10Gig™ Category 6A** All Shielded Cables		

**When using the CBOT24K on 10 Gigabit cables, it is recommended that Panduit 10Gig™ Category 6A cables be used for optimum performance of installed cable. See www.panduit.com for cable details.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Hot Stamping Service
Custom Printed Cable Ties



Custom Hot Stamping Service provides a permanent, high quality imprinted message on Panduit® cable ties and marker plates. Graphics, text, numbers and colors provide a variety of choices for customization.

Hot stamped cable ties and marker plates are typically used for identification, or for labeling critical components. Panduit cable ties, marker ties, marker plates and marker straps are available to suit your application.

Your choice of:

- Seven text colors (black, blue, green, red, yellow, orange, white)
- A variety of characters and fonts
- Sequential numbering
- Special customer logos and diagrams

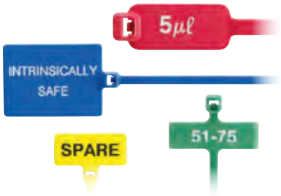
Minimum Order: (Pieces/part number and message)

- 5,000 for Miniature, Intermediate, Standard and Heavy-Standard cross section cable ties
- 3,000 for Light-Heavy, Heavy, and Extra-Heavy cross section cable ties
- 3,000 for Hook and Loop Wrap Ties

For hot stamping orders and inquiries, please call 1-800-777-3300













Cable Ties
– Used wherever you need to bundle wire, cable, hose or tubing
– A variety of colors for color-coding applications
– Cross Sections: Intermediate, Standard, Heavy-Standard, Light-Heavy, Heavy and Extra-Heavy

Marker and Flag Ties
– Fasten and identify bundles at the same time
– A variety of colors for color-coding applications
– Cross Sections: Miniature and Standard

Marker Plates
– Mount in any direction, either vertically or horizontally as flags, tags, or wrap-around identification plates.
– White or Weather Resistant black color
– Marker plate sizes:

1.50" x 0.75"	2.50" x 0.75"
1.75" x 0.75"	3.50" x 0.75"
2.00" x 0.75"	2.50" x 1.75"

Cable Marker Straps
– Identify and code telephone and fiber optic cable – replaces costly and cumbersome lead marking tags
– Lightweight and easy to install
– Can be used as wrap-around or flag marker
– Also can be used in underground identification applications
– Polyethylene material available in red and gray
– Marking area: 1.50" x 2.62"

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduit® Cable Tie Approvals

Logo (Symbol)	Agency	Spec/Approval	Requirement	Applicable Products
c UL us c TÜV us LISTED	Underwriters Laboratories, Inc.	File E56854 and MH29590	ZODZ(7), ZODZ2(8), ALKW	Most miniature, intermediate, standard, light-heavy and heavy cross section ties are Recognized or Listed in the US and Canada
CSA C US	Canadian Standards Association	File 031212	CAN/CSA - C22.2 Std. No. 62275 Cable Management Systems - Cable Ties for Electrical Installations	Most miniature, intermediate, standard, light-heavy and heavy cross section ties are Recognized or Listed in the US and Canada
CE	Conformity European	Low Voltage Directive 2014/35/EU. Pan-Ty and Dome-Top Barb Ty cable ties also meet the requirements from EN62275	CE Marking is required for products sold within the European Union. CE Marking Directives specify the minimum performance of these products. Applying the CE mark signifies compliance with essential requirements of specific directives.	All cable tie products
ABS TYPE APPROVAL PROGRAM	ABS (American Bureau of Shipping)	14-HS1245078-PDA	Steel Vessel Rules 1-1-4/7.7, 4-8-4/21.9.3 MODU Rules 4-3-3/5.9.1	PLT Series, BT Series
BUREAU VERITAS 1828	Bureau Veritas	Cert 05968/E2 BV File ACE 14/601/01	Bureau Veritas Rules for the Classification of Steel Ships	PLT Series, BT Series, PRT Series, CBR Series
TYPE APPROVED PRODUCT DNV·GL DNVGL.COM/AF	Det Norske Veritas & Germanischer Lloyd	TAE00000ZD TAE00001UM R1	DNV GL Rules for Classification of Ships and Mobile Offshore Units	PLT Series, PLC Series, PLM Series, PRT Series, PLWP Series, PRWP Series, PRST Series, BT Series, BC Series
APPROVED LR	Lloyd's Register of Shipping	15/600006 (E2)	Lloyd's Register Type Approval	PLT Series, BT Series, SST Series, CBR Series, ILT Series, SG Series
	NRC (Nuclear Regulatory Commission)	NRC 10CFR50	Quality Assurance Criteria for Nuclear Plants and Reprocessing Plants	All cable tie products
PLENUM P RATED	Plenum Rated	Panduit logo	Panduit® symbol indicates that the cable ties represented are suitable for use in plenum or air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code and Rules 12-010 (3), (4) and (5) and 12-020 of the Canadian Electrical Code, Part I.	Halar (702Y) and select Nylon 6.6 cable ties as noted throughout catalog
	US Military Aerospace Standard	QPL-AS23190	SAE spec AS23190	See Military Cross Reference Page B1.91
	Russian Maritime Register of Shipping	17.00775.315	Russian Maritime Register of Shipping Type Approval	PLT Series, BT Series, SG Series, CBR Series, DT Series

Military Cross Reference

The Panduit® cable ties and marker ties listed in the following tables meet all of the testing requirements of SAE Aerospace Standard AS23190 and the dimensional requirements of SAE Aerospace Standards AS33671 and AS33681.

		Cable Tie Cross Reference				
Mil. Std. Part Number	Color	Pan-Ty®	Dome-Top® Barb Ty	Sta-Strap®	Belt-Ty™ In-Line	Contour-Ty®
MS3367-1-0	Black*	PLT2S-C00, -M00	—	—	—	—
MS3367-1-1	Brown	PLT2S-C1, -M1	BT2S-M1	—	—	—
MS3367-1-2	Red	PLT2S-C2, -M2	BT2S-M2	—	—	—
MS3367-1-3	Orange	PLT2S-C3, -M3	BT2S-M3	—	—	—
MS3367-1-4	Yellow	PLT2S-C4Y, -M4Y	BT2S-M4Y	—	—	—

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Military Cross Reference (continued)

		Cable Tie Cross Reference				
Mil. Std. Part Number	Color	Pan-Ty®	Dome-Top® Barb Ty	Sta-Strap®	Belt-Ty™ In-Line	Contour-Ty®
MS3367-1-5	Green	PLT2S-C5, -M5	BT2S-M5	—	—	—
MS3367-1-6	Blue	PLT2S-C6, -M6	BT2S-M6	—	—	—
MS3367-1-7	Purple	PLT2S-C7, -M7	BT2S-M7	—	—	—
MS3367-1-8	Gray	PLT2S-C8, -M8	BT2S-M8	—	—	—
MS3367-1-9	Natural	PLT2S-C, -M, -VMR	BT2S-C, -M	SST2S-C, -M	—	—
MS3367-1-11	Black	PLT2S-C30, -M30	BT2S-M30	SST2S-M30	—	—
MS3367-1-12	Natural	PLT2S-M39	BT2S-M39	—	—	—
MS3367-1-15	Aqua Blue	PLT2S-C76, -M76	–	—	—	—
MS3367-1-16	Trans. Brown	PLT2S-C71, -M71	–	—	—	—
MS3367-2-0	Black*	PLT4S-C00, -M00	–	—	—	—
MS3367-2-1	Brown	PLT4S-M1	–	—	—	—
MS3367-2-2	Red	PLT4S-C2, -M2	BT4S-M2	SST4S-M2	—	—
MS3367-2-3	Orange	PLT4S-C3, -M3	BT4S-M3	—	—	—
MS3367-2-4	Yellow	PLT4S-C4Y, -M4Y	BT4S-M4Y	—	—	—
MS3367-2-5	Green	PLT4S-C5, -M5	BT4S-M5	—	—	—
MS3367-2-6	Blue	PLT4S-C6, -M6	BT4S-M6	—	—	—
MS3367-2-7	Purple	PLT4S-M7	BT4S-M7	—	—	—
MS3367-2-8	Gray	PLT4S-C8, -M8	BT4S-M8	—	—	—
MS3367-2-9	Natural	PLT4S-C, -M	BT4S-C, -M	SST4S-C, -M	—	—
MS3367-2-11	Black	PLT4S-C30, -M30	BT4S-M30	SST4S-M30	—	—
MS3367-2-12	Natural	–	BT4S-M39	—	—	—
MS3367-2-15	Aqua Blue	PLT4S-C76, -M76	–	—	—	—
MS3367-3-0	Black*	PLT4H-L00, -TL00	–	—	—	—
MS3367-3-1	Brown	PLT4H-TL1	–	—	—	—
MS3367-3-2	Red	PLT4H-TL2	–	—	—	—
MS3367-3-3	Orange	PLT4H-TL3	–	—	—	—
MS3367-3-4	Yellow	PLT4H-TL4Y	–	—	—	—
MS3367-3-5	Green	PLT4H-TL5	–	—	—	—
MS3367-3-6	Blue	PLT4H-TL6	–	—	—	—
MS3367-3-9	Natural	PLT4H-L, -C, -TL	BT4LH-L, -TL	SST4H-L, -D	—	—
MS3367-3-11	Black	PLT4H-TL30	BT4LH-TL30	SST4H-D30	—	—
MS3367-3-12	Natural	–	BT4LH-TL39	—	—	—
MS3367-3-15	Aqua Blue	PLT4H-L76, -TL76	–	—	—	—
MS3367-4-0	Black*	PLT1M-C00, -M00, -XMR00	–	—	—	—
MS3367-4-0		PLT1.5M-XMR00	–	—	—	—
MS3367-4-1	Brown	PLT1M-C1, -M1	BT1M-M1	—	—	—
MS3367-4-2	Red	PLT1M-C2, -M2, -XMR2	BT1M-M2	—	—	—
MS3367-4-3	Orange	PLT1M-C3, -M3, -XMR3	BT1M-M3	—	—	—
MS3367-4-4	Yellow	PLT1M-C4Y, -M4Y	BT1M-M4Y	—	—	—
MS3367-4-5	Green	PLT1M-C5, -M5, -XMR5	BT1M-M5	—	—	—
MS3367-4-6	Blue	PLT1M-C6, -M6, -XMR6	BT1M-M6	—	—	—
MS3367-4-7	Purple	PLT1M-C7, -M7, -XMR7	BT1M-M7	—	—	—
MS3367-4-8	Gray	PLT1M-C8, -M8, -XMR8	BT1M-M8	—	—	—
MS3367-4-9	Natural	PLT1M-C, -M, -XMR	BT1M-C, -M, -XMR	SST1M-C, -M	—	—
MS3367-4-9		PLT.7M-C, -M	–	—	—	—
MS3367-4-9		PLT1.5M-XMR	BT1.5M-XMR	—	—	—
MS3367-4-11	Black	PLT1M-C30, -M30	BT1M-C30, -M30	SST1M-M30	—	—
MS3367-4-12	Natural	–	BT1M-M39	—	—	—
MS3367-4-15	Aqua Blue	PLT1M-C76, -M76	–	—	—	—
MS3367-4-16	Trans. Brown	PLT1M-C71, PLT1.5M-C71	–	—	—	—

*Weather resistant per ASTM D 4066-94B.
-00 Weather Resistant Nylon 6.6
-30, -39 Heat Stabilized Nylon 6.6
-71 PEEK (Polyetheretherketone)
-76 TEFZEL is a registered trademark of the Chemours Company

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Military Cross Reference (continued)

		Cable Tie Cross Reference				
Mil. Std. Part Number	Color	Pan-Ty®	Dome-Top® Barb Ty	Sta-Strap®	Belt-Ty™ In-Line	Contour-Ty®
MS3367-5-0	Black*	PLT1.5I-M00	—	—	—	—
MS3367-5-1	Brown	PLT1.5I-C1, -M1	BT1.5I-M1	—	—	—
MS3367-5-2	Red	PLT1.5I-C2, -M2	BT1.5I-M2	—	—	—
MS3367-5-3	Orange	PLT1.5I-C3, -M3	BT1.5I-M3	—	—	—
MS3367-5-4	Yellow	PLT1.5I-C4Y, -M4Y	BT1.5I-M4Y	—	—	—
MS3367-5-5	Green	PLT1.5I-C5, -M5	BT1.5I-M5	—	—	—
MS3367-5-6	Blue	PLT1.5I-C6, -M6	BT1.5I-M6	—	—	—
MS3367-5-7	Purple	PLT1.5I-C7, -M7	BT1.5I-M7	—	—	—
MS3367-5-8	Gray	PLT1.5I-C8, -M8	BT1.5I-M8	—	—	—
MS3367-5-9	Natural	PLT1.5I-C, -M	BT1.5I-C, -M	SST1.5I-C, -M	—	—
MS3367-5-11	Black	PLT1.5I-C30, -M30	BT1.5I-M30	—	—	—
MS3367-5-12	Natural	—	BT1.5I-M39	—	—	—
MS3367-5-15	Aqua Blue	PLT2I-C76, -M76	—	—	—	—
MS3367-6-9	Natural	PLT8LH-L, -C	BT8LH-L, -C	SST8H-L, -D	—	—
MS3367-6-9		—	BT9LH-L, -C	—	—	—
MS3367-6-11	Black	—	—	SST8H-D30	—	—
MS3367-7-0	Black*	PLT3S-C00, -M00	—	—	—	—
MS3367-7-1	Brown	PLT3S-M1	—	—	—	—
MS3367-7-2	Red	PLT3S-C2, -M2	BT3S-C2	—	—	—
MS3367-7-3	Orange	PLT3S-M3	—	—	—	—
MS3367-7-4	Yellow	PLT3S-M4Y	—	—	—	—
MS3367-7-5	Green	PLT3S-M5	—	—	—	—
MS3367-7-6	Blue	PLT3S-M6	—	—	—	—
MS3367-7-7	Purple	PLT3S-M7	—	—	—	—
MS3367-7-8	Gray	PLT3S-M8	—	—	—	—
MS3367-7-9	Natural	PLT3S-C, -M, -VMR	BT3S-C, -M	SST3S-C, -M	—	—
MS3367-7-11	Black	PLT3S-C30, -M30	BT3S-M30	SST3S-M30	—	—
MS3367-7-12	Natural	—	BT3S-M39	—	—	—
MS3367-7-15	Aqua Blue	PLT3S-C76, -M76	—	—	—	—
MS3367-8-9	Natural	PLT5H-L, -C	—	—	—	—
MS3367-8-11	Black	PLT5H-C30	—	—	—	—
MS3367-9-9	Natural	PLT6H-L, -C	—	—	—	—
MS3367-9-11	Black	PLT6H-C30	—	—	—	—
MS3367-11-9	Natural	PLT8H-L, -C	—	—	—	—
MS3367-11-11	Black	PLT8H-C30	—	—	—	—
MS3367-14-9	Natural	PLT13H-Q, -C	—	—	—	—
MS3367-20-9		PLT5EH-Q, -C	—	—	—	—
MS3367-21-9		PLT6EH-Q, -C	—	—	—	—
MS3367-22-9		PLT8EH-C	—	—	—	—
MS3367-23-9		—	—	—	ILT2S-C, -M	—
MS3367-24-9		—	—	—	ILT4S-C, -M	—
MS3367-25-9		—	—	—	ILT4LH-TL	—
MS3367-29-9		—	—	—	ILT3S-C, -M	—
MS3367-30-9		—	—	—	—	CBR1M-M
MS3367-30-11	Black	—	—	—	—	CBR1M-M30
MS3367-31-9	Natural	—	—	—	—	CBR1.5M-M
MS3367-32-1	Brown	—	—	—	—	CBR2M-M1
MS3367-32-2	Red	—	—	—	—	CBR2M-M2
MS3367-32-3	Orange	—	—	—	—	CBR2M-M3
MS3367-32-4	Yellow	—	—	—	—	CBR2M-M4Y
MS3367-32-5	Green	—	—	—	—	CBR2M-M5
MS3367-32-6	Blue	—	—	—	—	CBR2M-M6
MS3367-32-7	Purple	—	—	—	—	CBR2M-M7

*Weather resistant per ASTM D 4066-94B.
-00 Weather Resistant Nylon 6.6
-30, -39 Heat Stabilized Nylon 6.6
-71 PEEK (Polyetheretherketone)
-76 TEFZEL is a registered trademark of the Chemours Company

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Military Cross Reference (continued)

		Cable Tie Cross Reference				
Mil. Std. Part Number	Color	Pan-Ty®	Dome-Top® Barb Ty	Sta-Strap®	Belt-Ty™ In-Line	Contour-Ty®
MS3367-32-9	Natural	—	—	—	—	CBR2M-M
MS3367-33-9		—	—	—	—	CBR1.5I-M
MS3367-33-11	Black	—	—	—	—	CBR1.5I-M30
MS3367-34-2	Red	—	—	—	—	CBR3I-M2
MS3367-34-3	Orange	—	—	—	—	CBR3I-M3
MS3367-34-4	Yellow	—	—	—	—	CBR3I-M4Y
MS3367-34-6	Blue	—	—	—	—	CBR3I-M6
MS3367-34-8	Gray	—	—	—	—	CBR3I-M8
MS3367-34-9	Natural	—	—	—	—	CBR3I-M
MS3367-35-9		—	—	—	—	CBR4I-M
MS3367-36-9		—	—	—	—	CBR2S-M
MS3367-36-11	Black	—	—	—	—	CBR2S-M30
MS3367-36-12	Natural	—	—	—	—	CBR2S-M39
MS3367-37-9		—	—	—	—	CBR3S-M
MS3367-37-11	Black	—	—	—	—	CBR3S-M30
MS3367-38-9	Natural	—	—	—	—	CBR4S-M
MS3367-38-11	Black	—	—	—	—	CBR4S-M30
MS3367-39-9	Natural	—	—	—	—	CBR2HS-D
MS3367-40-9		—	—	—	—	CBR4LH-TL
MS3367-40-11	Black	—	—	—	—	CBR4LH-TL30
MS3367-41-9	Natural	—	—	—	—	CBR6LH-C
MS3367-41-11	Black	—	—	—	—	CBR6LH-C30
MS3368-1-2A	Red	PLM2S-D2	—	—	—	—
MS3368-1-3A	Orange	PLM2S-D3	—	—	—	—
MS3368-1-4A	Yellow	PLM2S-C4Y, -D4Y	—	—	—	—
MS3368-1-5A	Green	PLM2S-D5	—	—	—	—
MS3368-1-6A	Blue	PLM2S-D6	—	—	—	—
MS3368-1-8A	Gray	PLM2S-D8	—	—	—	—
MS3368-1-9A	Natural	PLM2S-C, -D	BM2S-C, -D	—	—	—
MS3368-1-9B		—	—	SSM2S-C, -D	—	—
MS3368-2-2A	Red	PLM4S-D2	—	—	—	—
MS3368-2-4A	Yellow	PLM4S-D4Y	—	—	—	—
MS3368-2-6A	Blue	PLM4S-D6	—	—	—	—
MS3368-2-9A	Natural	PLM4S-C, -D	BM4S-C, -D	—	—	—
MS3368-2-9B		—	—	SSM4S-D	—	—
MS3368-3-4C	Yellow	PL2M2S-D4Y	—	—	—	—
MS3368-3-9C	Natural	PL2M2S-L, -D	B2M2S-D	—	—	—
MS3368-4-4D	Yellow	PL3M2S-D4Y	—	—	—	—
MS3368-4-9D	Natural	PL3M2S-L, -D	B3M2S-TL	—	—	—
MS3368-5-1E	Brown	PLM1M-M1	—	—	—	—
MS3368-5-2E	Red	PLM1M-M2	—	—	—	—
MS3368-5-3E	Orange	PLM1M-M3	—	—	—	—
MS3368-5-4E	Yellow	PLM1M-M4Y	—	—	—	—
MS3368-5-5E	Green	PLM1M-M5	—	—	—	—
MS3368-5-6E	Blue	PLM1M-M6	—	—	—	—
MS3368-5-7E	Purple	PLM1M-M7	—	—	—	—
MS3368-5-8E	Gray	PLM1M-M8	—	—	—	—
MS3368-5-9E	Natural	PLM1M-C, -M	BM1M-C, -M	—	—	—

Installation Tools

The Panduit® installation tools listed in the table below meet all of the testing requirements of SAE Aerospace Standard AS81306 and the dimensional requirements of AS90387.

Mil. Std. Part Number	Panduit Part Number
MS90387-1	GTS-E, GS2B-E
MS90387-2	GTH-E, GS4H-E
MS90387-4	GS4EH-E

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Cable Tie Selection and Specification Guidelines

Selecting the Proper Cable Tie Material for Your Application

By using the information on our material selection chart on pages B1.2 and B1.3 as a guide, the user will be better equipped to select the best cable tie and material suited to perform its intended function over a long period of time.

For long life and dependable service, there are many factors to consider when selecting the proper cable tie for each application. Since it is impossible for Panduit® to provide data on all the various combinations of conditions which may arise, it is suggested that this data be used as a guide. Sample cable ties should be tested under actual end-use conditions to determine the correct cable tie for the application.

To select the optimum cable tie for a specific application, the chart on pages B1.2 and B1.3 can be used as a reference. First, determine the most critical design criteria and then read across the table to find which material is most suitable to meet this need. Next, review the other criteria by scanning in a vertical direction on the chart and then make your final selection.

Example No. 1

Application	Selection
The application requires high radiation (2 x 108 rads) resistance and excellent resistance to hydrocarbons.	The best choice is PEEK, TEFZEL■, or HALAR▲. The price is higher than other materials, but all have high ratings in resistance to radiation and hydrocarbons.

Example No. 2

Application	Selection
The application requires a low cost material, good ultraviolet resistance, and good resistance to acid rains.	The best choice is Weather Resistant Polypropylene. Price is medium, the UV rating is 6, and the acid resistance rating is 9.

Weathering

Over a period of time, ultraviolet light (a component of sunlight) attacks most plastic materials and reduces their properties by breaking the molecular chain. The material breakdown is accompanied by reductions in tensile strength and elongation, increased brittleness, color changes and loss of surface gloss.

Carbon black, which is used in Panduit® nylon, polypropylene, and acetal cable ties, is one of the most effective stabilizers known today. A uniform dispersion of carbon black provides good ultraviolet light resistance without adversely affecting physical properties. The addition of carbon black, or any other ultraviolet light stabilizer, prolongs the useful outdoor life of plastic products, but it does not totally eliminate the destructive effects of the light. Some plastics, such as TEFZEL■ or HALAR▲, are intrinsically very resistant to ultraviolet light and do not require stabilizing additives.

Weathering Test Methods

In order to monitor the effects of ultraviolet light and the effectiveness of ultraviolet stabilizers, Panduit, in conformance with industry standards, adopted two methods of weatherability testing: Outdoor Aging and Accelerated Weather Aging.

Outdoor Aging

The Outdoor Aging method is probably the best and most realistic method of the two. It is conducted in accordance with ASTM D 1435 Standard Practice for Outdoor Weathering of Plastics, and allows the material to be affected by not only ultraviolet light, but by all other outdoor elements as well. Although this may more closely approximate an actual application, two drawbacks do exist. The period of time required to produce property decay and material failure may be quite long, and varying adverse chemical environments cannot be tested.

■TEFZEL is a registered trademark of The Chemours Company.
▲HALAR is a registered trademark of Solvay Solexis.

Continued on next page

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Weathering (continued)

Accelerated Weather Aging

Accelerated weathering tests are conducted to estimate the rate of degradation due to a combination of ultraviolet light, temperature, and moisture. The methods used are in accordance with the following standards:

- ASTM D 1499, Operating Light and Water Exposure Apparatus (Carbon-Arc type) for exposure to plastics
- ASTM G 154-04, Operating Light and Water Exposure (Fluorescent UV Condensation type) for exposure of non-metallic materials

The condition specified in ASTM D 1499 utilizes a water spray and a carbon arc to simulate natural sunshine. The test chamber is operated 20 hrs./day with a two-hour cycle of 108 minutes of simulated sunshine and twelve minutes of sunshine and water spray. The temperature of a black body inside the chamber is approximately 63°C (145°F) during the "sunshine only" portion of the cycle. Humidity is not controlled inside the chamber.

The test chamber per ASTM G 154-04 uses fluorescent sun lamps to generate ultraviolet light only. A heated water pan produces condensation during a portion of the cycle. The daily cycle is composed of 20 hours of light followed by 4 hours of condensation. Black body temperatures during the light cycle are 50°C (122°F) and 40°C (104°F) during the condensation cycle.

Panduit® has also designed a special chamber, which is used to simulate the effect of acid rain and ultraviolet light on cable tie materials. The effects of other common chemicals, such as road salt, are also evaluated in this chamber.

These methods are effective in quickly determining the ultraviolet light resistance of the various cable tie materials, but it must be emphasized that there are no exact correlations between accelerated aging and actual outdoor exposure.

Material Failure Testing

Property decay can lead to three different modes of failure: loss of strength, loss of toughness, or change in appearance. The critical mode for any given application would depend upon the application and the requirements it places upon the material itself.

Loss of strength is monitored by tensile testing samples of the material before and after it has been weathered. This test will reveal the decreasing strength accompanied by extended weathering.

Loss of toughness can be monitored by measuring changes in elongation and impact strength. As ultraviolet light exposure time increases and the material becomes brittle, its elongation and impact strength are greatly reduced. It is important to note that brittle failures can occur even when the tensile strength shows no change.

Although change in appearance is normally not a failure mode for cable ties, the plastic does tend to discolor and lose its surface gloss as exposure increases. These changes can be measured by color difference using Adams units, which are similar to National Bureau of Standard units.

Panduit has its own weathering test program to determine estimated life of various cable tie materials. This includes examining many previously aged samples obtained throughout the world.

In all cases, the amount of property decay increased with increasing exposure to ultraviolet light. The principal signs of degradation were found to be brittleness, cracking, and loss of surface gloss. It was also determined that the time for failure to occur was shorter than indicated from industry tests performed on material samples. This discrepancy is in part due to the fact that cable ties were tested in an end use, stressed condition, while most plastic resin suppliers conduct weathering tests using unstressed test bars.

Five cable tie materials have superior ultraviolet light resistance: TEFZEL■, HALAR▲, Weather Resistant Acetal, Nylon 12 and Stainless Steel.

Determining the outdoor life expectancy of any material is difficult since there are other factors, besides ultraviolet light stability, which have to be considered. These factors are listed below and should be considered before specifying a cable tie material.

■ TEFZEL is a registered trademark of The Chemours Company.
▲ HALAR is a registered trademark of Solvay Solexis

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Weathering (continued)

Table A – External Factors That Affect the Life of a Cable Tie

Factor	Effect on Cable Tie Life
Chemicals	Applications which have chemicals present can reduce the life of a tie. **This is the most detrimental factor to the life of a tie.**
Bundle Diameter	As the bundle diameter is reduced, the tie has more bending stress. A thick strap on a small bundle diameter has more stress.
Loading	If the tie is under high loading, this will add additional stress on the tie body.
Thickness	A thinner tie will have a decreased life since surface cracks will penetrate the thickness of the tie faster.
Vibration	Applications with high vibrations will cause impact, which will propagate any surface cracks.
Degree of Exposure	No shield or shade, southern exposure, higher altitudes and high temperatures, decrease the life of a cable tie.
Moisture	High humidity plus high temperature can result in degradation due to hydrolysis in nylon.
Galvanized metals	Acid rain and acid moisture acting on galvanized metals release chemicals known to attack Nylon 6.6.

Weathering Life Expectancy	
Material, Color (Part Number Suffix)	**Years***
Polypropylene, Green (109)	1
Nylon 6.6, Natural (No suffix)	1 – 2
Flame Retardant Nylon 6.6, Black (60)	
Flame Retardant Nylon 6.6, Ivory (69)	
Heat Stabilized Nylon 6.6, Natural (39)	
PEEK, Polyetheretherketone, Translucent Brown (71)	
Heat Stabilized Nylon 6.6, Black (30)	4 – 5
Weather Resistant Polypropylene, Black (100)	7 – 9
Weather Resistant Nylon 6.6, Black (0 and 00)	
Heat Stabilized Weather Resistant Nylon 6.6, Black (300)	
Weather Resistant Nylon 12, Black (120)	12 – 15
TEFZEL■, Aqua Blue (76)	>15
HALAR▲, Maroon (702Y)	
Weather Resistant Acetal, Black	>20
Stainless Steel	>30

*Based on the assumption of minimum loading, no chemical attack and impact-free conditions.
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▲ HALAR is a registered trademark of Solvay Solexis

Flammability

Flammability

A number of test procedures have been developed which can be used for the evaluation and comparison of various materials to support combustion.

UL 94 Vertical Burning Test

Samples of a material, with dimensions 127mm by 12.7mm and the thickness of the intended end use product, are tested in an unaged “as manufactured” state and in an aged state (seven days at 158°F, 70°C). The test requires the placement of a precisely controlled flame under a vertically supported specimen for a ten second period. The controlled flame is removed and the duration of flaming combustion of the specimen is recorded. When the flaming combustion of the specimen extinguishes, it is immediately subjected to an additional controlled flame exposure. After the additional ten seconds of exposure, the controlled flame is removed, and the duration of flaming combustion of the specimen is recorded. A piece of surgical cotton is placed under the specimen. If drips ignite the cotton, this fact is also recorded.

Materials Classed 94V-0

Requirements:

- None of the specimens will burn with flaming combustion for more than ten seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 50 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- None of the specimens will drip flaming particles that ignite the dry absorbent surgical cotton located 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 30 seconds after the second removal of the controlled flame

Continued on next page

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Flammability (continued)

Materials Classed 94V-1

Requirements:

- None of the specimens will burn with flaming combustion for more than 30 seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 250 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- Specimens may drip flaming particles which burn only briefly, and may not ignite the dry absorbent surgical cotton located 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 60 seconds after the second removal of the controlled flame

Materials Classed 94V-2

Requirements:

- None of the specimens will burn with flaming combustion for more than 30 seconds after either application of the controlled flame
- The total flaming combustion time will not exceed 250 seconds for the ten controlled flame applications (two controlled flame applications for each of the five specimens)
- None of the specimens will burn with flaming or glowing combustion up to the holding clamp
- Specimens may drip flaming particles which burn only briefly, and may ignite the dry absorbent surgical cotton placed 12 inches (305mm) below the test specimen
- None of the specimens will exhibit glowing combustion that persists for more than 60 seconds after the second removal of the controlled flame

ASTM D 635

Samples of a material, with dimensions 125mm by 12.5mm and the thickness of the intended end use product, are tested in an unaged “as manufactured” state. A precisely controlled flame is applied to the specimen and a stopwatch is started. The flame is applied for 30 seconds. The stopwatch is stopped when burning or glowing combustion ceases or when the flame has proceeded to a mark 100mm from the free end. Ten specimens are tested. If any of the specimens burn to the 100mm mark, an additional ten specimens are tested.

Burning Rate

- If two or more specimens have burned to the 100mm mark then Average Burning Rate (cm/min.) shall be reported as the average of the burning rates of all specimens which have burned to the 100mm mark

Average Time of Burning and Average Extent of Burning

- Average time of burning and average extent of burning of the sample shall be reported if none of the ten samples or no more than one of the twenty specimens have burned to the 100mm mark

- Average Time of Burning (ATB):

$$ATB,\ s = \frac{\sum_0^N [time(sec) - 30(sec)]}{N}$$

N = Number of specimens tested
Rounded to the nearest 5 seconds

- Average Extent of Burning (AEB):

$$AEB,\ mm = \frac{\sum_0^N [10(mm) - unburned\ length(mm)]}{N}$$

N = Number of specimens tested
Rounded to the nearest 5mm

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Flammability (continued)

Table B – Flammability Ratings

Materials	Part Number Suffix	UL 94	ASTM D 635
Nylon 6.6, Natural	None	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 6.6, Black (Meets Mil. Spec.)	00	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 6.6, Black*	0	94V-2** @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Nylon 6.6, Black	30	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Nylon 6.6, Natural	39	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Heat Stabilized Weather Resistant Nylon 6.6, Black	300	94V-2 @ .71mm	AEB = 20mm, ATB = 5 seconds
Flame Retardant Nylon 6.6, Black	60	94V-0 @ .81mm	AEB = 15mm, ATB = < 5 seconds
Flame Retardant Nylon 6.6, Natural (Ivory)	69	94V-0 @ .81mm	AEB = 15mm, ATB = < 5 seconds
PEEK, Polyetheretherketone, Translucent Brown	71	94V-0 @ 1.5mm	—
Metal Detectable Nylon 6.6, Blue	86	94 HB @ .71mm	AEB = 20mm, ATB = 5 seconds
Weather Resistant Nylon 12, Black	120	94 HB @ 1.6mm	Avg. Burning Rate 1.6cm/min.
Polypropylene, Green	109	94 HB @ .94mm	Avg. Burning Rate 2cm/min.
Weather Resistant Polypropylene, Black	100	94 HB @ .94mm	Avg. Burning Rate 2cm/min.
TEFZEL■, Aqua Blue	76	94V-0 @ 1.5mm	AEB = 15mm, ATB = < 5 seconds
HALAR▲, Maroon	702Y	94V-0 @ .18mm	AEB = 15mm, ATB = < 5 seconds
Weather Resistant Acetal, Black	DT Prefix	94 HB @ 1.5mm	Avg. Burning Rate, 2.8cm/min

*UL Recognized cable ties meet stated ratings. **UL Recognized -0 parts
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▲HALAR is a registered trademark of Solvay Solexis.

Radiation/Moisture/Temperature/Tensile Strength

Radiation

Installed cable ties of various materials have been exposed to different amounts of radiation to determine the maximum acceptable limit. These tests were conducted by Panduit® to determine the acceptability for use in various areas of nuclear power plants (for radiation exposure accumulated over a 40 year life). See Cable Tie Selection Chart (pages B1.2 and B1.3) for radiation resistance rating.

Moisture

Many plastics when exposed to high relative humidity absorb water and, as such, the tensile strength of the material can change dramatically. Nylon 6.6 when exposed to 100% relative humidity, will absorb as much as 8.5% water which will reduce tensile strength by 50% when compared to a dry cable tie. Polypropylene, HALAR▲, Type 12 Nylon, TEFZEL■, Acetal and PEEK are low water absorbing materials and, as such, the effect of water is minimal. See Cable Tie Selection Chart (pages B1.2 and B1.3) for moisture absorption.

Proper Storage

Nylon 6.6 is a hygroscopic material (affected by atmospheric moisture variations). The optimum storage requirement for Nylon 6.6 cable ties is 73°F (± 15°F) and 50% RH (relative humidity) in sealed containers. Improper storage, especially in cold/dry conditions can result in moisture loss, which impedes cable tie performance. Panduit packaging provides Nylon 6.6 cable ties conditioned to 2.5% moisture added by weight in heavy-wall, polyethylene heat-sealed bags.

Temperature

Plastic materials normally undergo property loss due to oxidation caused by exposure to high temperatures. The maximum continuous use temperature for cable tie materials depends upon the time at the elevated temperature as well as other environmental conditions. Initially, plastics become more flexible and weaker when exposed to high temperatures. After a period of time, oxidation may occur which will cause embrittlement, making plastic cable ties more susceptible to failure from impact and vibration.

The maximum continuous use temperature, is based on the UL Relative Thermal Index (mechanical without impact) as determined by UL per UL 746B. It is one indicator of a material's ability to retain a particular physical property when exposed to elevated temperatures over an extended period of time. It is based on the assumption that there is no loading, no chemical attack, and impact-free condition. The continuous use temperature range for cable tie materials are listed in the Cable Tie Selection Chart (pages B1.2 and B1.3).

Continued on next page

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Radiation/Moisture/Temperature/Tensile Strength (continued)

Temperature (continued)

Low temperature exposure will also make most plastics more brittle during the exposure, but little property loss occurs when the material is returned to room temperatures. The minimum installation temperatures for cable tie materials are listed in the Cable Tie Selection Chart (pages B1.2 and B1.3).

Tensile Strength

Most cable ties are selected based on material, length, and minimum loop tensile strength. Minimum loop tensile strength was established under SAE Aerospace Standard AS23190. Each cable tie cross section (SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy and EH = Extra-Heavy) has a different loop tensile strength when tested per AS23190.

The cable tie is first conditioned at 49°C (120°F), 20% relative humidity for 24 hours, then the cable tie is installed on a split mandrel and the halves of the mandrel separated at a rate of 1 inch (25.4mm) per minute. The separating force required to unlock or break the cable tie is the loop tensile strength. Loop tensile strength is dependent both on the locking design and the tensile strength (psi) of the material. As an example, the tensile strength of polypropylene material is approximately 1/2 to 1/3 of Nylon 6.6; thus the loop tensile strength of a given cross section tie made of polypropylene would be much less than a tie made of Nylon 6.6. This is another property to be considered when selecting a cable tie. The various representative loop tensile strengths are listed in the Cable Tie Selection Chart (pages B1.2 and B1.3).

Halogen-Free

All Panduit® cable ties (with the exception of TEFZEL■ and HALAR▲) are halogen-free per IEC Specification 61249-2-21.

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Table C – Chemical Resistance Table

Many factors combine to determine the useful life of a cable tie material and none is as important as chemical exposure. Various chemicals will have different effects on plastics depending on such variables as chemical concentrations, temperature, stress and ultraviolet light. This table is an excellent guideline for the selection of the best cable tie material for various cable tie environments. It should be noted that the exposure for this chemical resistance chart is at 70°F (21°C).

Resistance of Panduit® cable tie materials to chemical attack at 70°F (21°C)

A = Excellent
B = Satisfactory
C = Slight Attack
D = Attacked
— = Not Tested

[1] = Pitting occurs under some conditions
[2] = Attack may occur if sulfuric acid present
Aq. = Aqueous
C.S. = Cold Saturated

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Acetaldehyde	90	B	—	C	A	A	A	—	—
Acetic Acid	97	D	D	A	A	A	A	A	A
Acetic Acid	10	C	B	A	A	A	—	A	A
Acetic Anhydride	90	—	B	A	A	A	—	A	A
Acetone	100	A	A	A	A	A	A	A	A
Acetophenone	100	—	—	B	A	A	—	A	A
Acetylene	100	—	—	A	A	A	A	A	A
Aluminum Chloride	10	B	A	A	A	A	A	—	—
Aluminum Fluoride	10	B	A	A	A	A	—	—	—
Aluminum Hydroxide	Aq. C.S.	—	A	A	A	A	—	A	A
Aluminum Potassium Sulfate	10	B	A	A	A	A	—	A[1]	A[1]
Ammonia	All	—	A	A	A	A	A	A	A
Ammonium Carbonate	1 to 5	—	A	—	A	A	—	A	A
Ammonium Chloride	10 to 25	D	A	A	A	A	A	A	A
Ammonium Hydroxide	10	A	—	—	A	A	A	—	—
Ammonium Nitrate	100	—	A	A	A	A	A	A	A[1]
Ammonium Sulfate	10	—	A	A	A	A	A	E[1]	A
Amyl Acetate	100	—	—	C	A	A	A	A	A
Aniline	100	—	B	A	A	A	A	A	A
Antimony Trichloride	All	D	—	A	A	A	A	A	A
Arsenic Acid	1 to 80	—	—	A	A	A	—	A	A
Barium Carbonate	All	—	A	A	A	A	—	A	A
Barium Chloride	All	—	A	A	A	A	—	A[1]	A
Barium Sulfate	All	—	A	A	A	A	—	A	A
Barium Sulfide	All	—	A	A	A	A	—	A	A
Benzene	100	A	A	C	A	A	A	A	A
Benzoic Acid	100	D	A	A	A	A	A	A	A
Benzoyl Chloride	100	—	—	C	A	A	—	—	—
Benzyl Alcohol	100	—	—	A	A	A	A	—	—
Boric Acid	All	D	A	A	A	A	A	B	—
Bromine	100	D	D	D	A	A	D	D	D
Butadiene	100	—	—	C	A	A	—	A	A
Butane	100	—	A	A	A	A	A	A	A
Butanediol	100	—	—	A	A	A	—	—	—
Butyl Acetate	100	—	A	C	A	A	A	—	—
N. Butyl Alcohol	100	—	A	A	A	A	A	A	A
Butyl Phthalate	100	—	—	A	A	A	—	—	—
Butyraldehyde	100	—	—	A	A	A	—	—	—
Butyric Acid	10 to 100	D	—	A	A	A	—	A	A
Calcium Carbonate	Aq. C.S.	—	—	A	A	A	A	A	A
Calcium Chlorate	Aq. C.S.	—	—	A	A	A	—	A	A
Calcium Chloride	5	C	A	A	A	A	A	A[1]	A[1]
Calcium Hydroxide	50	—	—	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).
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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Calcium Hypochlorite	2	D	—	A	A	A	A	A[1]	A[1]
Calcium Nitrate	50	—	A	A	A	A	A	—	—
Calcium Sulfate	2	C	—	A	A	A	A	A	A
Carbon Tetrachloride	100	A	A	—	A	A	A	A	A
Carbon Tetrachloride	Aq. 10	—	—	—	—	A	—	C[1]	A[1]
Chlorine	Dry	—	D	D	A	A	D	C	C
Chlorine	Wet	—	D	C	A	A	D	D	D
Chloroacetic Acid	10 to 50	D	—	A	A	A	A	D	C
Chlorobenzene	100	—	C	A	A	A	A	—	—
Chloroform	100	A	C	C	A	A	A	A	A
Chlorosulphonic Acid	10 to 100	D	D	D	B	A	D	D	D
Chromic Acid	10 to 50	D	D	A	A	A	A	C	C
Citric Acid	10 to 50	B	B	A	—	A	A	A	A
Copper Chloride	1 to 10	D	—	A	A	A	A	A[1]-D	A[1]-C[1]
Copper Cyanide	Aq. C.S.	—	—	A	A	A	A	A	A
Copper Nitrate	50	—	—	A	A	A	A	A	A
Cresol	100	D	D	—	A	A	—	A	A
Crotonaldehyde	100	—	—	A	A	A	—	—	—
Cyclohexane	100	—	A	C	A	A	A	A	—
Cyclohexanol	100	—	A	A	A	A	A	A	—
Cyclohexanone	100	—	A	C	A	A	A	A	—
Dibutyl Phthalate	100	—	—	A	A	A	A	—	—
Dichloroethane	100	—	—	A	—	A	A	A	A
Dichloroethylene	100	—	—	C	A	A	—	—	—
Diesel Fuel	100	—	A	C	A	A	A	A	A
Diethyl Ether	100	—	A	A	A	A	A	A	A
Diglycolic Acid	Aq. C.S.	—	—	A	A	A	—	—	—
Diisobytyl Ketone	100	—	—	A	A	A	—	—	—
Dimethyl Amine	100	—	—	A	A	A	—	—	—
Dimethyl Formamide	100	—	A	A	A	A	A	A	—
Dimethyl Sulfate	100	—	—	C	A	A	—	—	—
Dioctyl Phthalate	100	—	—	A	A	A	A	A	—
1.4-Dioxane	100	—	B	C	A	A	A	A	—
Ethyl Acetate	100	A	A	B	A	A	A	A	A
Ethyl Alcohol	100	A	A	A	A	A	A	A	A
Ethyl Chloride	100	—	—	C	A	A	—	A	A
Ethylene Chloride	100	A	C	C	A	A	—	A	A
Ethylene Glycol	100	A	A	A	A	A	A	A	A
Ethylene Oxide	100	—	—	C	A	A	A	—	—
Fatty Acids	100	—	—	A	A	A	—	—	—
Ferric Chloride	50	D	—	A	A	A	C	D	D
Ferric Hydroxide	All	—	—	A	A	A	—	A	A
Ferric Nitrate	All	—	—	A	A	A	A	A	A
Ferrous Chloride	Aq. C.S.	D	—	A	A	A	A	D	C
Ferrous Sulfate	10	—	—	A	A	A	A	A[1]	A
Fluorine (Dry)	100	—	—	D	A	—	D	D	D
Formaldehyde	40	A	B	A	A	A	A	A[1]	A
Formic Acid	All	D	D	A	A	A	C	A	A
Freons	100	A	—	—	A	A	A	—	—
Fuel Oil	100	—	A	—	A	A	A	A	A
Furfural	100	A	—	—	A	A	—	A	A
Gallic Acid	Aq. C.S.	—	—	—	A	A	—	A	A
Gasoline	100	A	—	C	A	A	A	A	A
Glycerin	100	—	A	A	—	A	—	A	A
Glycolic Acid	40	D	—	A	A	A	—	—	—
Heptane	100	—	A	A	A	A	A	A	A
Hexane	100	—	A	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).
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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Hydrobromic Acid	All	D	D	A	A	A	D	D	D
Hydrochloric Acid	All	D	D	A	A	A	A	D	D
Hydrocyanic Acid	All	—	D	A	A	A	A	C	C
Hydrofluoric Acid	All	D	D	A	A	A	D	D	D
Hydrofluorosilicic Acid	30	—	D	A	A	A	—	D	D
Hydrogen Peroxide	30	D	B	B	A	A	A	B	A
Hydrogen Sulfide	Dry	—	—	A	A	A	A	A	A
Hydrogen Sulfide	Wet	D	—	A	A	A	—	C[2]	A[2]
Hydroquinone	100	—	—	A	A	A	—	—	—
Iodine	100	—	—	A	A	A	C	D	D
Iodoform	100	—	—	—	A	A	—	A	A
Isopropyl Alcohol	100	A	A	A	A	A	A	A	A
Jet Fuel	100	A	—	A	A	A	A	A	A
Lactic Acid	10	A	B	A	A	A	—	A	A
Lanolin	10	A	A	A	A	A	—	A	A
Lead Acetate	Aq. C.S.	—	—	A	A	A	A	A	A
Linseed Oil	100	A	A	A	A	A	—	A	A
Magnesium Carbonate	Aq. C.S.	—	A	A	A	A	—	A	A
Magnesium Chloride	Aq. C.S.	C	A	A	A	A	A	A[1]	A[1]
Magnesium Nitrate	Aq. C.S.	—	A	A	A	A	—	A	A
Maleic Acid	100	—	—	A	A	A	A	—	—
Malic Acid	Aq. C.S.	—	—	A	A	A	—	A	A
Mercuric Chloride	Dilute	—	A	A	A	A	A	D	D
Mercury	100	—	A	A	A	A	A	A	A
Methyl Alcohol	100	A	A	A	A	A	A	A	A
Methyl Bromide	100	—	—	D	A	A	—	—	—
Methyl Chloride	100	—	—	C	A	A	—	—	A
Methyl Chloroform	100	A	—	C	A	A	—	—	—
Methyl Ethyl Ketone	100	—	A	C	A	A	A	A	A
Methyl Isobutyl Ketone	100	A	—	C	A	A	—	A	A
Methylene Chloride	100	C	D	C	A	A	A	A	A
Naphtha	100	—	—	A	A	A	A	A	A
Naphthalene	100	—	B	A	A	A	A	A	A
Nickel Chloride	Aq. C.S.	—	A	A	A	A	A	A[1]	A[1]
Nickel Sulfate	Aq. C.S.	—	A	A	A	A	A	A[1]	A[1]
Nitric Acid	10 to 30	D	D	A	A	A	—	A	A
Nitric Acid	30 to 68	D	D	D	B	A	C	A	A
Nitro Benzene	100	—	C	C	A	A	A	A	A
Nitro Methane	100	A	—	—	A	A	—	—	—
Nitrous Acid	5	—	—	—	A	A	A	A	A
Oleic Acid	100	—	C	A	A	A	A	A	A
Oxalic Acid	10	—	C	A	A	A	A	A	A
Oxygen	All	—	—	A	A	A	A	—	—
Paraffin	100	A	A	A	A	A	—	A	A
Perchloroethylene	100	—	—	C	A	A	A	A	A
Petroleum Ether	100	—	A	A	A	A	A	A	A
Phenol	90	D	D	A	A	A	D	A	A
Phosphoric Acid	10	D	D	A	A	A	A	A	A
Phosphorous Pentoxide	100	—	D	A	A	A	A	—	—
Phosphorous Trichloride	100	—	D	C	A	A	—	A	A
Phthalic Acid	50	—	—	C	A	A	—	A	A
Picric Acid	1	—	—	A	A	A	A	A	A
Potassium Borate	1	—	—	A	A	A	—	—	—
Potassium Bromide	Aq. C.S.	—	—	A	A	A	A	A[1]	A[1]
Potassium Carbonate	Aq. C.S.	—	C	A	A	A	A	A	A
Potassium Chlorate	Aq. C.S.	—	B	A	A	A	A	A	A
Potassium Chloride	5	—	A	A	A	A	A	A[1]	A[1]
Potassium Dichromate	Aq. C.S.	—	D	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).
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Table C – Chemical Resistance Table (continued)

Materials	Percent Concentration	Nylon 6.6*	Nylon 12	Polypropylene	TEFZEL■	HALAR▲	PEEK	304 Stainless Steel	316 Stainless Steel
Potassium Ferrocyanide	25	—	—	A	A	A	A	A	A
Potassium Hydroxide	30	C	—	A	A	A	A	C	C
Potassium Iodide	Aq. C.S.	—	A	A	—	A	—	A	A
Potassium Nitrate	Aq. C.S.	—	A	A	A	A	A	A	A
Potassium Perchlorate	1	—	—	A	A	A	—	—	—
Potassium Permanganate	5	D	D	A	A	A	A	A	A
Potassium Persulfate	All	—	—	A	A	A	—	—	—
Potassium Sulfate	Aq. C.S.	—	A	A	A	A	A	A	A
Potassium Sulfide	Aq. C.S.	—	—	A	A	A	A	A	A
Propionic Acid	50	—	—	A	A	A	—	—	—
Propyl Alcohol	100	A	—	A	A	A	A	A	A
Pyridine	100	—	A	C	A	A	A	C	C
Sea Water	100	—	A	A	A	A	—	A[1]	A[1]
Silver Chloride	Aq. C.S.	—	A	A	A	A	—	D	D
Silver Nitrate	10	—	A	A	A	A	A	A	A
Sodium Acetate	Aq. C.S.	A	—	A	A	A	A	A[1]	A
Sodium Benzoate	Aq. C.S.	—	—	A	A	A	—	—	—
Sodium Bicarbonate	Aq. C.S.	A	A	A	A	A	A	A	A
Sodium Bisulfate	10	—	—	A	A	A	—	A	A
Sodium Bisulfite	Aq. C.S.	—	B	A	A	A	—	A	A
Sodium Borate	Aq. C.S.	—	—	A	A	A	—	A	A
Sodium Carbonate	2	A	A	A	A	A	A	A	A
Sodium Chlorate	25	—	C	A	A	A	A	A	A
Sodium Chloride	10	A	A	A	A	A	A	A	A
Sodium Chromate	Aq. C.S.	D	—	A	A	A	—	A	A
Sodium Fluoride	5	—	—	A	A	A	—	A[1]	A[1]
Sodium Hydroxide	10	A	A	A	A	A	A	A	A
Sodium Hypochlorite	5	B	C	A	A	A	A	C[1]	A[1]
Sodium Hyposulfite	Aq. C.S.	—	—	—	A	A	—	A	A
Sodium Nitrate	5	A	A	A	A	A	A	A	A
Sodium Perborate	Aq. C.S.	—	B	A	A	A	—	—	C
Sodium Perchlorate	10	—	—	—	A	A	—	A	A
Sodium Phosphate	5	—	A	A	A	A	—	A	A
Sodium Sulfate	5	—	A	A	A	A	A	A	A
Sodium Sulfide	5	—	A	A	A	A	A	A[1]	A
Sodium Thiosulfate	25	—	A	A	A	A	—	A[2]	A[2]
Stannic Chloride	Aq. C.S.	D	—	A	A	A	A	D	C
Stannous Chloride	Aq. C.S.	—	A	A	A	A	A	C	B
Stearic Acid	100	—	C	A	A	A	—	A	A
Succinic Acid	100	—	B	A	A	A	—	—	—
Sulfur	100	—	A	A	A	A	A	B	C
Sulfur Dioxide	All	D	—	C	A	A	A	A	A
Sulfuric Acid	5	D	C	A	A	A	C	C	A
Sulfuric Acid	50	D	D	A	A	A	D	D	C
Sulfuric Acid	Concentrate	D	D	C	A	A		C	C
Sulfurous Acid	10	A	—	A	A	A	A	C[1]	A[1]
Tannic Acid	10	—	A	A	A	A	A	A	A
Tartaric Acid	50	—	B	A	A	A	A	A	A
Tetrahydrofuran	100	—	C	C	A	A	A	A	A
Toluene	100	A	A	C	A	A	A	A	A
Trichloroacetic Acid	10	D	—	B	A	A	—	D	D
Trichloroethylene	100	—	D	C	A	A	A	A[1]	A[1]
Turpentine	100	—	B	D	A	A	A	A	A
Urea	50	—	A	A	A	A	—	—	—
Vinyl Acetate	100	—	—	A	A	A	—	—	—
Xylene	100	A	—	D	A	A	A	A	A
Zinc Chloride	70	D	A	A	A	A	A	A	A
Zinc Nitrate	Aq. C.S.	—	A	A	A	A	—	A	A
Zinc Sulfate	Aq. C.S.	—	A	A	A	A	A	A	A

*Includes all 6.6 Nylons (weather resistant, heat stabilized, and flame retardant).
■ TEFZEL is a registered trademark of The Chemours Company.
▲ HALAR is a registered trademark of Solvay Solexis.

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PLT-XMR Reel-Fed Cable Ties

- Continuously molded cable ties (5,000 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- All-nylon, one-piece locking ties with 18 lbs. minimum loop tensile strength in miniature cross section
- Available in a variety of colors and materials
- Reel-fed cable ties in Nylon 6.6 material (except black) are UL Listed for use in plenum or air handling spaces per NEC





Part Number	Tie Style	Material	Color	Max. Bundle Dia.		Length		Width		Min. Loop Tensile Str.	
				In.	mm	In.	mm	In.	mm	Lbs.	N
Reel-Fed Cable Ties for PAT1M4.0 System											
PLT1M-XMR*	All-Nylon	Nylon 6.6	Natural	0.82	21	4.0	102	0.100	2.5	18	80
PLT1M-XMR0	All-Nylon	Weather Resistant Nylon 6.6	Black								
PLT1M-XMR00*											
PLT1M-XMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black								
Reel-Fed Cable Ties for PAT1.5M4.0 System											
PLT1.5M-XMR	All-Nylon	Nylon 6.6	Natural	1.31	33	5.6	142	0.100	2.5	18	80
PLT1.5M-XMR0	All-Nylon	Weather Resistant Nylon 6.6	Black								
PLT1.5M-XMR00*											
PLT1.5M-XMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black								

*Military grade weather resistant material.
Note: PLT_XMR cable ties (natural, 00, and colors) are Class 2 Mil. Spec. per AS23190 and AS33671.
Please visit www.panduit.com for additional colors

Order number of pieces required, in multiples of Standard Package Quantity.

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PLT-VMR Reel-Fed Cable Ties

- Continuously molded cable ties (2,500 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- All-nylon, one-piece locking ties with 50 lbs. minimum loop tensile strength in standard cross section for larger bundles up to 1.94" (49mm) diameter
- Reel-fed cable ties in Nylon 6.6 material (Natural color) are UL Listed for use in plenum or air handling spaces per NEC





Part Number	Tie Style	Material	Color	Max. Bundle Dia.		Length		Width		Min. Loop Tensile Str.	
				In.	mm	In.	mm	In.	mm	Lbs.	N
Reel-Fed Cable Ties for PAT2S System											
PLT2S-VMR	All-Nylon	Nylon 6.6	Natural	1.94	49	8.1	206	0.190	4.8	50	222
PLT2S-VMR0	All-Nylon	Weather Resistant Nylon 6.6	Black								
PLT2S-VMR30	All-Nylon	Heat Stabilized Nylon 6.6									
Reel-Fed Cable Ties for PAT3S System											
PLT3S-VMR	All-Nylon	Nylon 6.6	Natural	2.75	70	11.3	287	0.190	4.8	50	222
PLT3S-VMR30	All-Nylon	Heat Stabilized Nylon 6.6	Black								

Note: PLT_VMR Nylon 6.6 cable ties are Class 2 Mil. Spec. per AS23190 and AS33671.

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BT-XMR Reel-Fed Cable Ties

- Continuously molded cable ties (5,000 ties/reel) provide continuous feeding for high productivity and reduced downtime due to fewer reel changes
- Reel-fed cable ties with exclusive stainless steel locking barb and 30 lbs. minimum loop tensile strength permit higher tension for demanding applications
- Metal locking barb and tie body design provide greater bundle tightness, reducing both rotational and lateral movement of the tie
- Reel-fed cable ties in Nylon 6.6 material (Natural color) are UL Listed for use in plenum or air handling spaces per NEC



BT_XMR



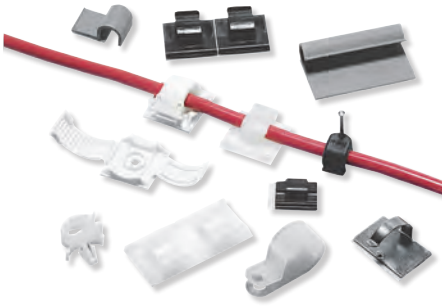
BT_XMR (0, 30)

Part Number	Tie Style	Material	Color	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Length In.	Length mm	Width In.	Width mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N
Reel-Fed Cable Ties for PAT1M4.0-BT System											
BT1M-XMR	Barbed	Nylon 6.6	Natural	0.82	21	4.0	102	0.100	2.5	30	133
BT1M-XMR0	Barbed	Weather Resistant Nylon 6.6	Black								
BT1M-XMR30	Barbed	Heat Stabilized Nylon 6.6									
Reel-Fed Cable Ties for PAT1.5M4.0-BT System											
BT1.5M-XMR	Barbed	Nylon 6.6	Natural	1.31	33	5.6	142	0.100	2.5	30	133
BT1.5M-XMR0	Barbed	Weather Resistant Nylon 6.6	Black								
BT1.5M-XMR30	Barbed	Heat Stabilized Nylon 6.6									

Order number of pieces required, in multiples of Standard Package Quantity.

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Cable Accessories

Panduit® provides a comprehensive offering of cable accessories. These accessories are engineered to speed installation and lower installed costs for routing and managing cable. Panduit cable accessories are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO and Aerospace.

- **Largest selection of mounts, clips, and clamps for cable management**
- **Panduit cable ties and accessories can be used in a variety of applications and environments, providing the optimal cable management solution**
- **Installation methods include adhesive backed, user applied adhesive, screws, rivets or push barb**

Panduit mounts, clips, and clamps are manufactured in an environment committed to design innovation, high quality, and knowledgeable service to our customers. Adhesive backed mounts provide a strong adhesive bond for long-term reliability. Cable clips offer a one-piece solution to save time and reduce inventory. Harness board accessories speed the routing and forming of cable bundles in the fabrication of a harness. They hold bundles at a uniform height above the board and are ideal for use with Panduit manual and automatic cable tie tooling.

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Cable Accessories Products Overview – Used with Cable Ties

Adhesive Backed Cable Tie Mounts

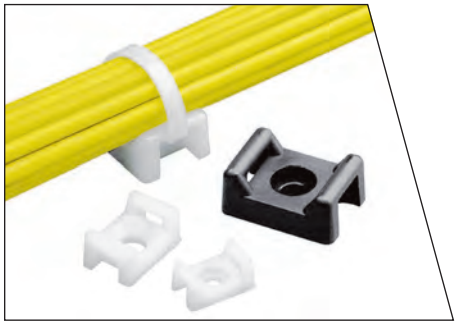
Pages B2.4 – B2.8



- Uses premium Panduit adhesive for a long-term, reliable bond
- Adhesive backing allows routing of wires and cables where mounting holes cannot be drilled
- Mounts should be used with Panduit cable ties for a complete wire routing solution

Screw Applied Cable Tie Mounts

Pages B2.9 – B2.15



- Screw/rivet applied cable tie mounts offer a countersunk or through hole in the mount through which a screw or rivet can be secured
- Offered in a wide selection of specialty materials for resistance to severe conditions such as heat, radiation, chemicals, and outdoor environments
- Available in styles ranging from low profile mounts with integral push-rivet to high stability cradle mounts for Extra-Heavy strength cable ties

Other Cable Tie Mounts

Pages B2.16 – B2.26



- Push mount designs lock into a hole in a metallic panel or in a blind masonry hole
- Edge clip mounts secure to a panel edge using metal barbs that dig into panel surface
- Stud mounts secure onto threaded bolts by screwing or hammering on the bolt
- Connector rings can be used to attach adjacent bundles to provide spacing and prevent vibration damage

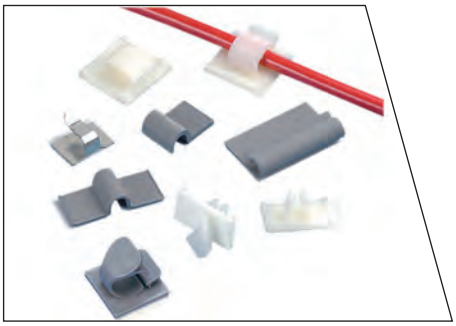
Order number of pieces required, in multiples of Standard Package Quantity.

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Cable Accessories Products Overview – Used without Cable Ties

Adhesive Back Clips and Clamps

Pages B2.27 – B2.36



- A wide range of styles and sizes of adhesive backed clips and clamps to secure a variety of cables, from individual small diameter wires to large flat cables
- Products come in designs that use friction to hold a few cables, or more secure releasable latching designs
- Uses premium Panduit adhesive for a long-term, reliable bond

Other Clips and Clamps

Pages B2.36 – B2.43



- Screw clips use a screw, nail, or rivet to secure the clip to surface
- Plastic edge clips secure to an edge in a panel which incorporates a punched hole to provide mechanical retention
- Push-in clips use an arrow-head shaped barb to lock into a hole in a panel, and is available in a range of bundle sizes

Harness Board Accessories

Pages B2.44 – B2.50



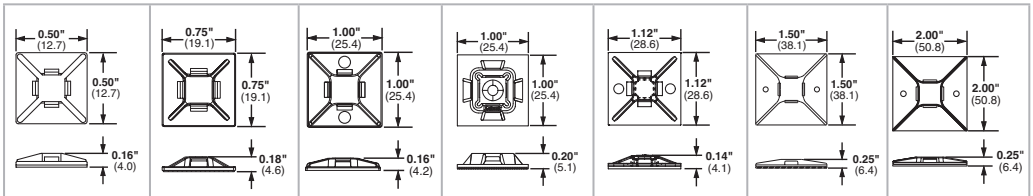
- Allow an installer to quickly configure a specific arrangement of wires, to aid in required wire bundling and termination
- Hold wire bundles at a uniform height from a harness board to ease manual or automatic cable tie installation
- Aid in the proper routing and forming of wire bundles to help maintain end product consistency, reduce expensive rework and maximize safety

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4-Way Adhesive Backed Cable Tie Mounts

- Allow cable tie entry from all four sides
- Available in multiple sizes to match application load requirements
- Produced 2-up or 4-up for fast and easy liner removal to speed installation





	ABM1M 0.50" x 0.50"	ABMM 0.75" x 0.75"	ABM2S 1.00" x 1.00"	ABM100 1.00" x 1.00"	ABM112 1.12" x 1.12"	ABM3H 1.50" x 1.50"	ABM4H 2.00" x 2.00"
	Accepts MCable Ties	Accepts M, I Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S Cable Ties	Accepts M, I, S, HS, LH, H, HLM Cable Ties	Accepts M, I, S, HS, LH, H, HLM Cable Ties
White Nylon 6.6; Rubber Adhesive; Indoor Environment	ABM1M-A-C 100 pc/pkg	-	-	ABM100-A-C** 100 pc/pkg	ABM112-A-C 100 pc/pkg	ABM3H-A-L 100 pc/pkg	ABM4H-A-L 100 pc/pkg
White Nylon 6.6; Acrylic Adhesive; Indoor/High Temp Environment	ABM1M-AT-C 100 pc/pkg	-	-	ABM100-AT-C 100 pc/pkg	ABM112-AT-C 100 pc/pkg	ABM3H-AT-L 100 pc/pkg	ABM4H-AT-L 100 pc/pkg
Black Weather Resistant Nylon 6.6; Acrylic Adhesive; Outdoor/High Temp Environment	ABM1M-AT-M0 1000 pc/pkg	-	-	ABM100-AT-C0 100 pc/pkg	ABM112-AT-C0 100 pc/pkg	ABM3H-AT-L0 50 pc/pkg	ABM4H-AT-T0 200 pc/pkg
White ABS; Rubber Adhesive; Indoor Environment	-	ABMM-A-C	ABM2S-A-C*^ 100 pc/pkg	-	-	-	-
White ABS; Acrylic Adhesive; Indoor/High Temp Environment	-	ABMM-AT-C 100 pc/pkg	ABM2S-AT-C 100 pc/pkg	-	-	-	-
Black ABS; Rubber Adhesive; Indoor Environment	-	-	ABM2S-A-C0 100 pc/pkg	-	-	-	-
Black Weather Resistant ABS; Acrylic Adhesive; Outdoor/High Temp Environment	-	ABMM-AT-C0 100 pc/pkg	ABM2S-AT-C0 100 pc/pkg	-	-	-	-
White ABS; Indoor Environment; User Supplied Adhesive	-	ABMM-D 500 pc/pkg	-	-	-	-	-
White ABS; Indoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	-	ABM2S-S6-D 500 pc/pkg	-	-	-	-
Black Weather Resistant ABS; Outdoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	-	ABM2S-S6-D0 500 pc/pkg	-	-	-	-
White Nylon 6.6; Indoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	-	-	ABM100-S6-C 100 pc/pkg	ABM112-S6-C 100 pc/pkg	ABM3H-S6-T 200 pc/pkg	ABM4H-S6-T 200 pc/pkg
Natural Flame Retardant Nylon 6.6; Indoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	-	-	ABM100-S6-C69 100 pc/pkg	ABM112-S6-C69 100 pc/pkg	-	-
Black Weather Resistant Nylon 6.6; User Supplied Adhesive or #6 (M3) screw(s)	-	-	-	-	ABM112-S6-D0 500 pc/pkg	ABM3H-S6-T0 200 pc/pkg	-

*Also available in Gray ABS material with Rubber Adhesive for Indoor environments. Part number ABM2S-A-C14
^Also available in Ivory ABS material with Rubber Adhesive for Indoor environments. Part number ABM2S-A-C15
**Also available in Ivory Nylon 6.6 material with Rubber Adhesive for Indoor environments. Part number ABM100-A-C15

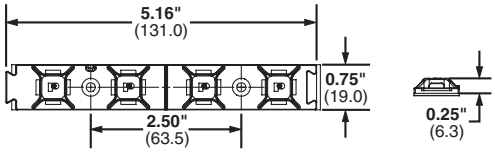
Order number of pieces required, in multiples of Standard Package Quantity.

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ABMQ Multiple Bridge Adhesive Backed Cable Tie Mounts

- Multiple cable tie bridges on one mount speeds installation of cable bundles by reducing the number of mounts applied
- Dovetail connection system provides alignment and a joining method to expand routing capabilities
- V-groove allows for easy separation into two mounts with two bridges each for separate applications
- 4-way cable tie bridges allow cable bundles to be secured perpendicular to the mount for even spacing or inline to secure a bundle in multiple places
- Large adhesive surface area provides long-term reliability and keeps product in place despite heavy load or high stress





Part Number	Used with Cable Ties	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
ABMQS-A-C	M, I, S	ABS	White	Indoors	Rubber	100	1000
ABMQS-A-Q	M, I, S	ABS	White	Indoors	Rubber	25	250
ABMQS-A-Q20			Black				

ABMQ Mounts for Installation with Screws or User-Supplied Adhesive

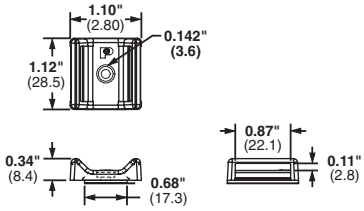
ABMQS-S6-C	M, I, S	ABS	White	Indoors	Two #6 M3 Screws	100	1000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Tak-Ty® Hook & Loop Cable Tie Mounts

- For use with hook and loop cable ties, see page B1.83, B1.84
- Unique cradle design provides maximum stability for cable bundle
- For indoor use only
- Dimensions: 1.10"L x 1.12"W x 0.34"H (27.9mm x 28.4mm x 8.6mm)





Part Number	Used with Cable Ties‡	Material	Color	Max. Static Load		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
				Lbs.	g			
ABMT-A-C	HLT, HLS, TTS, UCT	Nylon 6.6	Natural	0.38	174	Pre-Installed Rubber Adhesive	100	1000
ABMT-A-C20			Black					
ABMT-S6-C	HLT, HLS, TTS, UCT	Nylon 6.6	Natural	—	—	#6 (M3) Screw		
ABMT-S6-C20			Black					
ABMT-S6-C60	HLT, HLS, TTS, UCT	Flame Retardant Nylon 6.6	Black	—	—	#6 (M3) Screw		
ABMT-S6-C69			Natural					

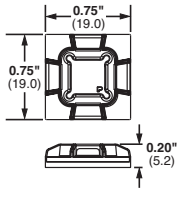
‡Cable tie cross section sizes: HLT = Tak-Ty™ Hook & Loop Ties, HLS = Tak-Ty™ Hook & Loop Strip Tie, TTS = Tak-Tape™ Roll, UCT = Ultra-Cinch™ Tie.
*For proper selection of adhesives see page B2.53.

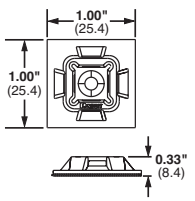
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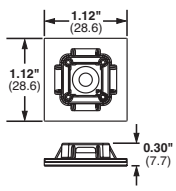
Super-Grip™ Adhesive Backed Cable Tie Mounts

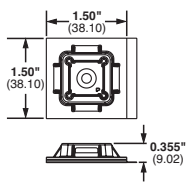
- Low profile design keeps bundle close to mounting surface
- Small overall size allows use where space is limited
- For use with Super-Grip™ Cable Ties found on page B1.36
- High Bond Adhesive available

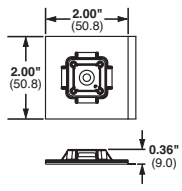










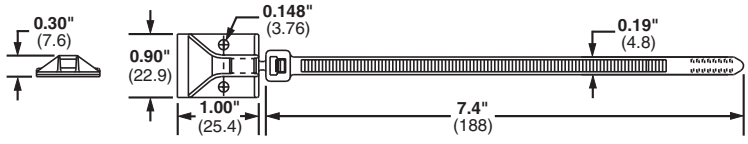


	SGABM20 0.75" x 0.75"	SGABM25 1.00" x 1.00"	SGABM30 1.12" x 1.12"	SGABM40 1.50" x 1.50"	SGABM50 2.00" x 2.00"
	Accepts SGM, SGI Cable Ties	Accepts SGM, SGI, SGS Cable Ties	Accepts SGM, SGI, SGS Cable Ties	Accepts SGM, SGI, SGS, SGLH, SGH Cable Ties	Accepts SGM, SGI, SGS, SGLH, SGH Cable Ties
White Nylon 6.6; Rubber Adhesive; Indoor Environment	SGABM20-A-C 100 pc/pkg	SGABM25-A-C 100 pc/pkg	SGABM30-A-C 100 pc/pkg	SGABM40-A-L 50 pc/pkg	SGABM50-A-L 50 pc/pkg
Black Weather Resistant Nylon 6.6; Acrylic Adhesive; Outdoor/High Temp Environment	SGABM20-AT-C0 100 pc/pkg	SGABM25-AT-C0 100 pc/pkg	SGABM30-AT-C0 100 pc/pkg	SGABM40-AT-L0 50 pc/pkg	SGABM50-AT-L0 50 pc/pkg
Black Weather Resistant Heat Stabalized Nylon 6.6; High Bond Acrylic Adhesive; Outdoor/High Temp Environment	SGABM20-AV-C300 100 pc/pkg	SGABM25-AV-C300 100 pc/pkg	SGABM30-AV-C300 100 pc/pkg	-	-
White Nylon 6.6; Indoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	SGABM25-S6-C 100 pc/pkg	-	-	-
Black Weather Resistant Nylon 6.6; Outdoor Environment; User Supplied Adhesive or #6 (M3) screw(s)	-	SGABM25-S6-C0 100 pc/pkg	-	-	-

c UL us Combination Adhesive Mount/Cable Ties

- Adhesive mount and cable tie molded as one-piece helps reduce inventory costs
- Available with locking or releasable tie
- For indoor use only
- Material: Nylon 6.6





Part Number	Tool	Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
Locking Cable Tie					
PLA2S-A-Q	GTS, GTSL, GS2B, GS4H, PTS, PTH, PPTS, STS2, STH2	White	Rubber	25	250
Releasable Cable Tie					
PRA2S-A-Q	Hand installed only	White	Rubber	25	250

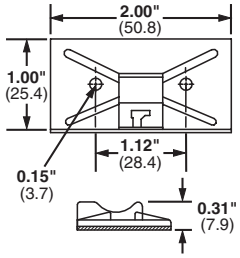
Order number of pieces required, in multiples of Standard Package Quantity.

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Snap-In Cable Tie Mounts – Mechanically Applied

- For use with Panduit Standard cross section cable ties including PLT1S, PLT1.5S, PLT2S, PRT1.5S and PRT2S
- Integral retaining notch holds cable tie head in place below bundle
- Eliminates protruding tie head and facilitates one hand tie threading
- Quickly route wire and cable where mounting holes cannot be drilled
- For indoor use only
- Material: ABS





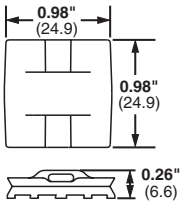
Part Number	Used with Cable Ties‡	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Snap-In Mounts with Pre-Installed Adhesive					
SMS-A-C	S	White	Rubber	100	500
SMS-A-C14	S	Gray			
SMS-A-C15	S	Ivory			
Snap-In Mounts for Application with Screws or User-Supplied Adhesive					
SMS-S6-D	S	White	User Supplied Adhesive and/or Two #6 M3 Screws	500	5000

‡Cable tie cross section size: S = Standard.

Epoxy Applied Mounts

- Provide a fast, strong, economical method to secure wire/cable to most surfaces
- Eliminate the need to drill holes





Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
EMS-A-C	M, I, S	Nylon 6.6	Natural	Indoors	EMA epoxy	100	1000
EMS-A-C0		Weather Resistant Nylon 6.6	Black	Outdoors			

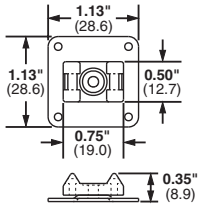
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

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Epoxy Applied Swivel Mount

- Swivels 360° to assure proper orientation with harness
- Four inspection holes to check adhesive coverage
- For indoor use only



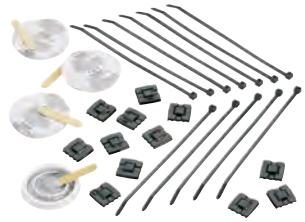


Part Number	Used with Cable Ties‡	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
ASMS-A-X	M, I, S, SGM, SGI	EMA epoxy	10	100

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, SGM = Super-Grip® Miniature, and SGI = Super-Grip® Intermediate.

Epoxy Applied Cable Tie Mount Kits

- EMA Epoxy supplied in convenient two-compartment mixer cup with a mixer stick for each cup
- Each cup contains adhesive for three EMS or ASMS mounts
- Epoxy hardens in approximately five minutes
- After full 24 hour cure time, bonding strength will exceed 50 lbs. on a clean, grease-free surface
- Not recommended for use on polyethylene and polypropylene surfaces



Part Number	Used with Cable Ties‡	Environment	Epoxy Cups	Mixer Sticks	EMS Mounts	Cable Ties	Std. Pkg. Qty.	Std. Ctn. Qty.
Epoxy Adhesive Only								
EMA-X	—	Indoors/Outdoors	10	10	—	—	10	—
Epoxy Mounting Kit with EMS Mounts								
EMSK3-1-X0	M, I, S	Indoors/Outdoors	1	1	3	—	1	10
Epoxy Mounting Kit with EMS Mounts and Cable Ties								
EMSK3-1-3-0	M, I, S	Indoors/Outdoors	1	1	3	3	1	10
EMSK12-4-12-X0			4	4	12	12	10	

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

c UL us Tie Mounts – Applied with User Supplied Adhesives

- Solid flat bottom surface provides maximum holding area
- For indoor use only
- Material: Nylon 6.6



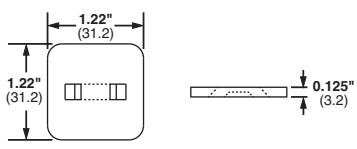
Part Number	Used with Cable Ties‡	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM1A-C	M	Natural	User Suppled Adhesive	100	1000
TM2A-C	M, I, S	Natural	User Suppled Adhesive	100	500
TM3A-C	M, I, S, HS, LH				

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy Standard and LH = Light-Heavy.

c UL us Low Profile Tie Mounts – User Supplied Adhesive Mounts

- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6





Part Number	Used with Cable Ties‡	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
AM2-C	M, I, S	Natural	User Supplied Adhesive	100	500

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

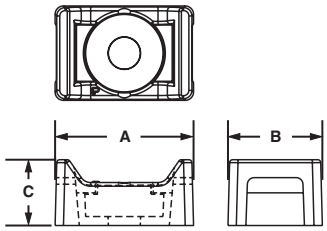
Order number of pieces required, in multiples of Standard Package Quantity.

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Cable Tie Mounts – Screw Applied

- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface
- Wide selection of materials available
- UL Recognized except HVTM and SGTM series





Part Number	Used with Cable Ties‡	Counterbore Diameter		Length A		Width B		Height C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
TM1S4-C	M	0.23	5.7	0.51	13.0	0.32	8.0	0.23	5.8	#4 (M2.5) Screw	100	500
TM1S6-C		0.28	7.0	0.51	13.0	0.32	8.0	0.23	5.8	#6 (M3) Screw		
TM2S6-C	M, I, S	0.29	7.1	0.63	16.0	0.43	10.8	0.28	7.0	#6 (M3) Screw		
TM2S8-C		0.33	8.4	0.63	16.0	0.43	10.8	0.28	7.0	#8 (M4) Screw		
TM3S8-C	M, I, S, LH	0.32	8.1	0.86	21.9	0.61	15.5	0.37	9.4	#8 (M4) Screw		
TM3S10-C		0.38	9.7	0.86	21.9	0.61	15.8	0.37	9.4	#10 (M5) Screw		
Super-Grip® Cable Tie Mounts												
SGTM1S6-C	SGM	0.28	7.0	0.51	13.0	0.38	9.7	0.22	5.6	#6 (M3) Screw	100	500
SGTM2S8-C	SGM,SGI,SGS	0.33	8.4	0.66	16.7	0.48	12.2	0.34	8.6	#8 (M4) Screw		
SGTM3S10-C	SGM, SGI, SGS, SGLH	0.38	9.7	0.91	23.1	0.61	15.4	0.43	11.0	#10 (M5) Screw		
Hyper-V™ Cable Tie Mounts												
HVTM-06-C0*	HV	0.40	10.2	0.81	20.6	0.68	17.3	0.41	10.4	#12 (M6) Screw	100	500

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy, SGM = Super-Grip® Miniature, SGI = Super-Grip® Intermediate, SGS = Super-Grip® Standard, SGLH = Super-Grip® Light-Heavy, and HV = Hyper-V™.
*Not UL Listed

Additional tie mounts available in specified materials.
All are available as standard Panduit® parts.

Metal Detectable Nylon*	Metal Detectable Polypropylene*	PEEK*	Heat Stabilized Nylon	Flame Retardant Nylon	Weather Resistant Nylon	Weather Resistant Polypropylene	Tefzel■
TM2S8-C86	TM2S8-C186	TM2S8-C71	TM1S4-M30	TM1S4-M69	TM1S6-M0	TM2S8-C100	TM2S8-C76
TM3S8-C86	TM3S8-C186		TM1S6-M30	TM1S6-M69	TM2R6-M0	TM3S8-C100	TM3S8-C76
TM3S10-C86	TM3S10-C186		TM2R6-M30	TM2S6-M69	TM2S6-M0	TM3S8-M100	TM3S10-C76
			TM2S6-M30	TM2S8-M69	TM2S8-M0		
			TM2S8-M30	TM3S8-C69	TM3R6-M0		
			TM3S8-M30	TM3S8-M69	TM3S10-M0		
			TM3S10-M30	TM3S10-M69	TM3S25-M0		
			TM3S25-M30		SGTM1S6-C0		
					SGTM2S8-C0		
					SGTM3S10-C0		

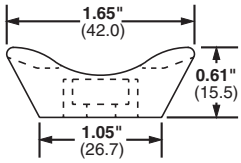
■TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company.
*Not UL Listed

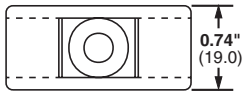
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Extra-Heavy Cable Tie Mounts – Screw Applied

- Unique cradle design provides maximum stability for cable bundle
- Route and support large diameter and heavy cable bundles







Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMEH-S8-Q0	M, I, S, HS, LH, H, EH, HLM	Weather Resistant Nylon 6.6	Black	Outdoors	#8 (M4) Screw	25	250
TMEH-S10-Q0					#10 (M5) Screw		
TMEH-S25-Q0					1/4 (M6) Screw		
TMEH-S10-C100	M, I, S, HS, LH, H, EH, HLM	Weather Resistant Polypropylene	Black	Outdoors	#10 (M5) Screw	100	500
TMEH-S10-C109		Polypropylene	Green	Indoors	#10 (M5) Screw		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy and HLM = Miniature Tak-Ty® Hook & Loop Ties.

Heavy Duty Cable Tie Mounts

Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMEH2S5-D350	I, S, H, EH	Heat Stabilized, Impact Modified, Weather Resistant Nylon 6.6	Black	Outdoors	#10 (M5) Screw	500	2000
TMEH2S6-D350					1/4" (M6) Screw		
TMEH2S8-D350					5/16" (M8) Screw		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy and HLM = Miniature Tak-Ty® Hook & Loop Ties.

Heavy Duty Cable Tie Mount Assemblies

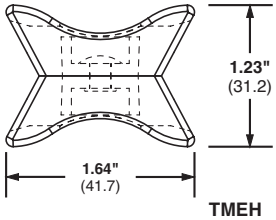
Part Number	Used with Cable Ties‡	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMEH2S5-3E-C350	M, I, S, HS, LH, H, EH, HLM	Black	Outdoors	#10 (M5) Screw	100	1000
TMEH2S6-3E-C350				1/4" (M6) Screw		
TMEH2S8-3E-C350				5/16" (M8) Screw		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy and HLM = Miniature Tak-Ty® Hook & Loop Ties.

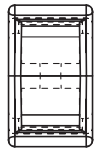
Swivel Mounts

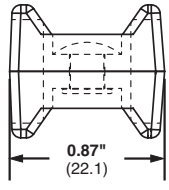
- The two mounts are securely fastened together with a connecting rivet that allows both mounts to rotate
- Can join bundles of cable, tubing, or hoses that may need to move or are not parallel
- Separates bundles to avoid abrasion
- Material: Weather Resistant Nylon 6.6

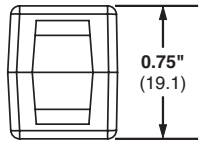




TMEH







TM3

Part Number	Used with Cable Ties‡	Pull Apart Force		Color	Environment	Std. Pkg. Qty.	Std. Ctn. Qty.
		Lbs.	g				
TM3-X2-C0Y	M, I, S, HS, LH	120	54,431	Black	Indoors/Outdoors	100	1000
TMEH-X2-L0Y	M, I, S, HS, LH, H, EH, HLM	250	113,398			50	500

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy and HLM = Miniature Tak-Ty® Hook & Loop Ties.

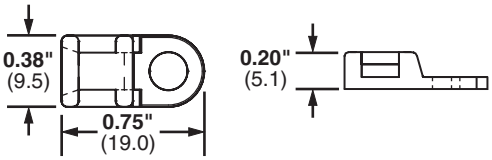
Order number of pieces required, in multiples of Standard Package Quantity.

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4-Way Tie Anchor Mounts – Screw Applied

- 4-way cable tie entry makes part orientation fast and easy
- Small overall size allows for use where space is limited



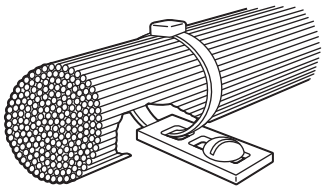


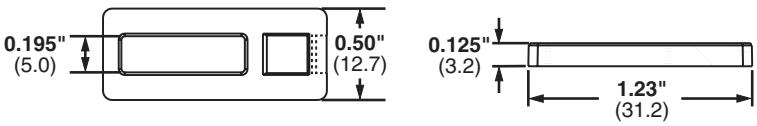
Part Number	Used with Cable Ties‡	Hole Diameter A		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm						
TA1S8-C	M, I, S	0.17	4.3	Nylon 6.6	Natural	Indoors	#8 (M4) Screw	100	500
TA1S8-M0	M, I, S	0.17	4.3	Weather Resistant Nylon 6.6	Black	Outdoors	#8 (M4) Screw	1000	5000
TA1S8-M30	M, I, S	0.17	4.3	Heat Stabilized Nylon 6.6	Black	Indoors			
TA1S8-M69	M, I, S	0.17	4.3	Flame Retardant Nylon 6.6	Natural	Indoors	#8 (M4) Screw	1000	5000
TA1S10-C	M, I, S	0.17	4.3	Nylon 6.6	Natural	Indoors	#10 (M5) Screw	100	500
TA1S10-M0	M, I, S	0.20	5.1	Weather Resistant Nylon 6.6	Black	Outdoors	#10 (M5) Screw	1000	5000
Super-Grip® Cable Tie Mounts									
SGTA1S8-C*	SGM, SGI, SGS	0.17	4.3	Nylon 6.6	Natural	Indoors	#8 (M4) Screw	100	500

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, SGM = Super-Grip® Miniature, SGI = Super-Grip® Intermediate, and SGS = Super-Grip® Standard.
* Not UL Listed

Tie Anchor Mounts – Screw Applied

- Install perpendicular to the wire bundle
- Elongated slot permits cable bundle adjustment in application
- Low profile design keeps bundle close to mounting surface where overhead space is limited
- Material: Nylon 6.6





Part Number	Used with Cable Ties‡	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TA2-C	M, I, S	Natural	Indoors	#10 (M5) Screw	100	1000
TA2-M					1000	500

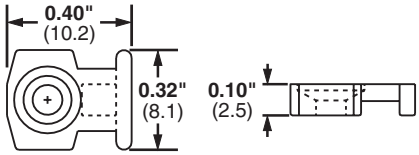
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

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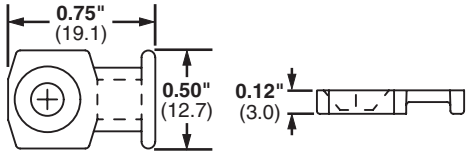
Low Profile Mounts – Screw Applied

- Low profile design keeps bundle close to mounting surface
- Small overall size
- Install with a screw or rivet for a strong, secure installation
- For indoor use only
- Material: Nylon 6.6





LPMM



LPMS

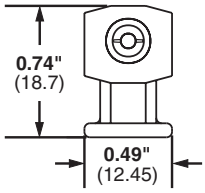
Part Number	Used with Cable Ties‡	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
LPMM-S2-C	M	Natural	#2 (M2) Countersunk Screw	100	1000
LPMM-S5-C			#5 (M3) Countersunk Screw		
LPMS-S8-C	M, I, S	Natural	#8 (M4) Countersunk Screw		

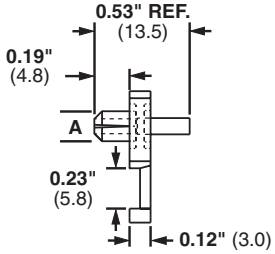
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Low Profile Mounts – Push Rivet Applied

- Eliminate screws
- Secure wires to any pre-drilled panel
- Can be installed in any panel thickness
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6







Part Number	Used with Cable Ties‡	Hole Diameter A		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm				
KIMS-H366-C2	M, I, S	0.144	3.7	Red	Integral Push Rivet	100	1000
KIMS-H430-C6		0.169	4.3	Blue			
KIMS-H500-C4		0.196	5.0	Yellow			

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

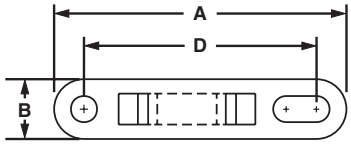
Order number of pieces required, in multiples of Standard Package Quantity.

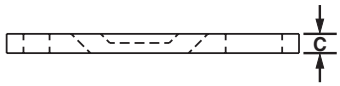
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Cable Tie Plates

- Slotted mounting hole accommodates various fastener spacing
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6







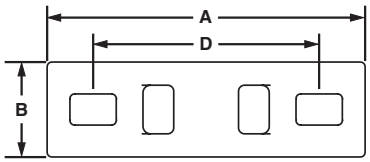
Part Number	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Color	Mil. Std. Part Number	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm					
TP2-C	M, I, S	1.98	50.3	0.50	12.7	0.13	3.2	1.60	40.6	Natural	MS3341-2-9	#10 (M5) Screw	100	1000
TP4H-C	M, I, S, HS, LH, H	3.08	78.2	0.62	15.7	0.20	5.2	2.50	63.5			1/4 (M6) Screw	500	

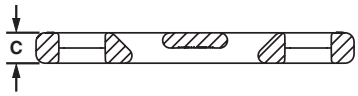
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

Contour Multiple Tie Plates

- Designed for aerospace industry to minimize chance for abrasion
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Heat stabilized Nylon 6.6 material







Part Number	No. of Bundles	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Mounting Method	Mil. Std. Part Number	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm				
MTPC1H-E10-C39	1	M, I, S, HS, LH, H	2.09	53.1	0.63	16.0	0.20	5.2	1.50	38.1	#10 (M5) Screw	—	100	1000
MTPC2H-E10-C39	2	M, I, S, HS, LH, H	3.59	91.2	0.63	16.0	0.20	5.2	3.00	6.2				
MTPC3H-E10-C39	3	M, I, S, HS, LH, H	5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3				
MTPC4H-E10-C39	4	M, I, S, HS, LH, H	6.59	167.4	0.63	15.7	0.20	5.2	6.00	152.4				
MTPC5H-E10-C39	5	M, I, S, HS, LH, H	8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5				
MTPC6H-E10-C39	6	M, I, S, HS, LH, H	9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6				
MTPC7H-E10-C39	7	M, I, S, HS, LH, H	11.09	281.7	0.63	16.0	0.20	5.1	10.50	266.7				

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

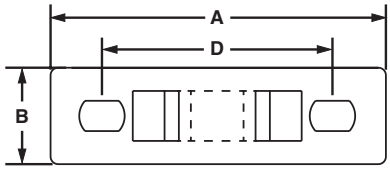
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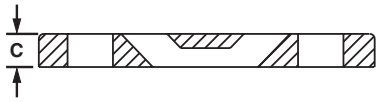
Multiple Tie Plates

c UL us LISTED

- Used to secure closely spaced wire bundles
- Low profile design keeps bundle close to mounting surface
- For indoor use only
- Material: Nylon 6.6







Part Number	No. of Bundles	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Mounting Method	Mil. Std. Part Number	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm				
MTP1S-E6-C	1	M, I, S	1.75	44.5	0.50	12.7	0.13	3.2	1.25	31.8	#6 (M3) Screw	MS3339-1-9	100	1000
MTP1S-E10-C			1.75	44.5	0.50	12.7	0.13	3.2	1.25	31.8	#10 (M5) Screw	—		
MTP1H-E6-C	1	M, I, S, HS, LH, H	2.09	53.1	0.63	16.0	0.20	5.2	1.50	31.8	#6 (M3) Screw	MS3339-6-9		
MTP1H-E10-C			2.09	53.1	0.63	16.0	0.20	5.2	1.50	31.8	#10 (M5) Screw	—		
MTP2S-E6-C	2	M, I, S	3.00	76.2	0.50	12.7	0.13	3.2	2.50	63.5	#6 (M3) Screw	MS3339-2-9		
MTP2S-E10-C			3.00	76.2	0.50	12.7	0.13	3.2	2.50	63.5	#10 (M5) Screw	—		
MTP2H-E6-C	2	M, I, S, HS, LH, H	3.59	91.2	0.63	16.0	0.20	5.2	3.00	76.2	#6 (M3) Screw	MS3339-7-9		
MTP2H-E10-C			3.59	91.2	0.63	16.0	0.20	5.2	3.00	76.2	#10 (M5) Screw	—		
MTP3S-E6-C	3	M, I, S	4.25	108.0	0.50	12.7	0.13	3.2	3.75	95.3	#6 (M3) Screw	MS3339-3-9		
MTP3S-E10-C			4.25	108.0	0.50	12.7	0.13	3.2	3.75	95.3	#10 (M5) Screw	—		
MTP3H-E6-C	3	M, I, S, HS, LH, H	5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3	#6 (M3) Screw	MS339-8-9		
MTP3H-E10-C			5.09	129.3	0.63	16.0	0.20	5.2	4.50	114.3	#10 (M5) Screw	—		
MTP4S-E6-C	4	M, I, S	5.50	139.7	0.50	12.7	0.13	3.2	5.00	127.0	#6 (M3) Screw	MS3339-4-9		
MTP4S-E10-C			5.50	139.7	0.50	12.7	0.13	3.2	5.00	127.0	#10 (M5) Screw	—		
MTP4H-E6-C	4	M, I, S, HS, LH, H	6.59	167.4	0.63	16.0	0.20	5.2	6.00	152.4	#6 (M3) Screw	MS3339-9-9		
MTP4H-E10-C			6.59	167.4	0.63	16.0	0.20	5.2	6.00	152.4	#10 (M5) Screw	—		
MTP5S-E6-C	5	M, I, S	6.75	171.5	0.50	12.7	0.13	3.2	6.25	158.8	#6 (M3) Screw	MS3339-5-9		
MTP5S-E10-C			6.75	171.5	0.50	12.7	0.13	3.2	6.25	158.8	#10 (M5) Screw	—		
MTP5H-E6-C	5	M, I, S, HS, LH, H	8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5	#6 (M3) Screw	MS3339-10-9		
MTP5H-E10-C			8.09	205.5	0.63	16.0	0.20	5.2	7.50	190.5	#10 (M5) Screw	—		
MTP6H-E6-C	6	M, I, S, HS, LH, H	9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6	#6 (M3) Screw	MS3339-11-9		
MTP6H-E10-C			9.59	243.6	0.63	16.0	0.20	5.2	9.00	228.6	#10 (M5) Screw	—		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

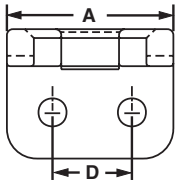
Order number of pieces required, in multiples of Standard Package Quantity.

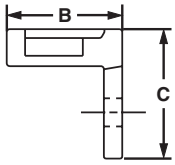
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Right Angle Mounts

- Hold cable bundles away from the sharp edges of bulkheads or cabinet holes
- Can also be used to mount cable bundles adjacent to any surface
- For indoor use only
- Material: Nylon 6.6







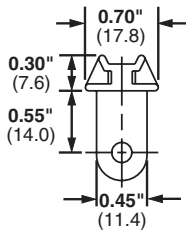
Part Number	Used with Cable Ties‡	Length A		Width B		Height C		Hole Spacing D		Color	Mil. Std. Part Number	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm					
RAMS-S3-M	M, I, S	0.56	14.2	0.39	0.99	0.44	11.0	0.28	7.1	Natural	MS3341-2-9	#3 (M2.5) Screw or 3/32 (2.4) Rivet	100	5000
RAMH-S6-D	M, I, S, HS, LH, H	1.00	25.4	0.75	19.1	1.00	0.28	0.28	7.1	Natural	MS3341-1-9	#6 (M3) Screw or 1/8 (3.2) Rivet	500	5000
RAMH-S10-D		1.00	25.4	0.75	19.1	1.00	0.50	0.50	12.7			#10 (M5) Screw or 3/16 (4.7) Rivet		

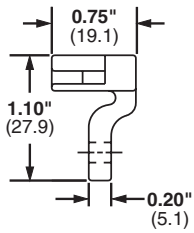
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy Standard, LH = Light-Heavy and H = Heavy.

Lightening Hole Mounts

- Secure cable bundles that run through bulkhead lightening holes
- Protect cable bundles from sharp edges
- For indoor use only
- Material: Nylon 6.6







Part Number	Used with Cable Ties‡	Color	Mil. Std. Part Number	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
LHMS-S5-D	M, I, S	Natural	—	#5 (M3) Screw or 1/8 (3.2) Rivet	500	2500
LHMS-S6-D			MS3340-1-9	#6 (M3) Screw or 9/64 (3.5) Rivet		
LHMS-S10-D			—	#10 (M5) Screw or 3/16 (4.7) Rivet		

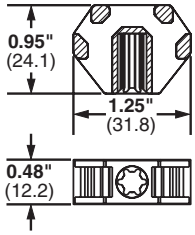
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

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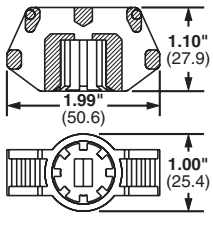
Stud Tie Mounts

- Easily applied to bolts or studs with a light hammer blow or turning of the mount
- Designed for use with cable ties to route and secure cable bundles, air, water and hydraulic lines
- Material: Impact Modified Weather Resistant Nylon 6.6





TMSTLH



TMSTH

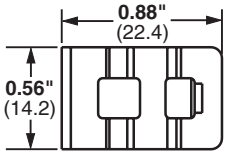
Part Number	Used with Cable Ties‡	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMSTLHS6-M0	M, I, S, HS, LH	Black	Outdoors	1/4" stud dia. (6mm)	1000	5000
TMSTLHS8-M0				5/16" stud dia (8mm)		
TMSTHS10-D0	M, I, S, HS, LH, H	Black	Outdoors	3/8" stud dia. (10mm)	500	—
TMSTHS11-D0				7/16" stud dia. (11mm)		
TMSTHS12-D0				12mm stud dia.		
TMSTHS13-D0	M, I, S, HS, LH, H	Black	Outdoors	1/2" stud dia. (13mm)	500	—
TMSTHS16-D0				5/8" stud dia. (16mm)		
TMSTHS19-D0				3/4" stud dia. (19mm)		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

Metal Clip-On Mounts

- Clips on sheet metal edges for fast mounting of harness with cable ties
- Allows cable tie entry from all four sides for easy harness orientation
- For indoor use only
- Material: Zinc plated steel







Part Number	Used with Cable Ties‡	Height A		Max. Panel Thickness		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm			
MCMS12-P-C	M, I, S	0.31	8.0	0.13	3.2	Clip-On	100	500
MCMS25-P-C		0.46	11.5	0.24	6.1			
MCMS30-P-C		0.55	14.0	0.27	6.9			
MCMS12-PJ-C*		0.31	8.0	0.13	3.2			

‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, and S = Standard.
*Note: Product is outdoor rated with superior plating.

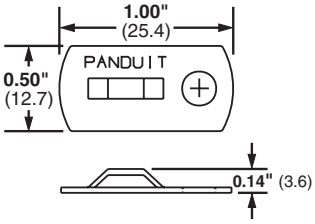
Order number of pieces required, in multiples of Standard Package Quantity.

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Metal Screw-On Mount

- Screw applied aluminum mounting base for a secure support in demanding applications





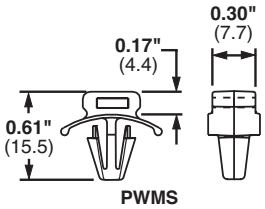
Part Number	Used with Cable Ties‡	Material	Environment	Mounting Method	Max Static Load		Std. Pkg. Qty.	Std. Ctn. Qty.
					Lbs.	g		
MBMS-S10-CY	M, I, S	Aluminum	Indoors/Outdoors	#10 (M5) Screw	10.00	4540	100	1000

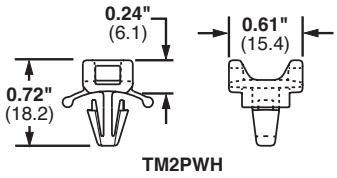
‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, and S = Standard.

Push Barb Cable Tie Mounts

- Wing provides added stability
- Requires no adhesive or additional mounting hardware
- Can be used where only one side of the panel is accessible







Part Number	Used with Cable Ties‡	Max. Panel Thickness		Panel Hole Diameter		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm						
PWMS-H25-C	M, I, S	0.11	2.7	0.25	6.5	Nylon 6.6	Natural	Indoors	Push Barb	100	1000
PWMS-H25-M0		0.11	2.7	0.25	6.5	Weather Resistant Nylon 6.6	Black	Outdoors		1000	5000
TM2PWH25-C	M, I, S	0.10	2.3	0.25	6.5	Nylon 6.6	Natural	Indoors	Push Barb	100	500

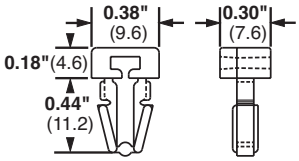
‡Cable tie cross section Sizes: M = Miniature, I = Intermediate, and S = Standard.

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Push Mounts

- Require no adhesive or additional mounting hardware
- Can be used where only one side of the panel is accessible





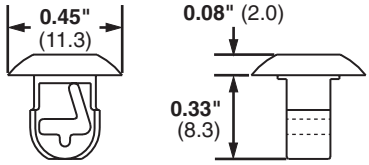
Part Number	Used with Cable Ties‡	Max. Panel Thickness		Panel Hole Diameter		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm						
PM2H25-C	M, I, S	0.125	3.2	0.250	6.4	Nylon 6.6	Natural	Indoors	Push Barb	100	500
PM2H25-M0	M, I, S	0.125	3.2	0.250	6.4	Weather Resistant Nylon 6.6	Black	Outdoors	Push Barb	1000	5000
PM2H25-M30	M, I, S	0.125	3.2	0.250	6.4	Heat Stabilized Nylon 6.6	Black	Indoors	Push Barb		

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Push Button Mounts

- Require no adhesive or additional mounting hardware
- Designed for use where both sides of the panel are accessible





Part Number	Used with Cable Ties‡	Max. Panel Thickness		Panel Hole Diameter		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm						
PBMS-H25-C	M, I, S	0.13	3.2	0.250	6.4	Nylon 6.6	Natural	Indoors	Push Barb	100	1000
PBMS-H25-C14		0.13	3.2	0.250	6.4	Nylon 6.6	Gray				
PBMS-H25-M0	M, I, S	0.13	3.2	0.250	6.4	Weather Resistant Nylon 6.6	Black	Outdoors	Push Barb	1000	5000
PBMS-H25-M30	M, I, S	0.13	3.2	0.250	6.4	Heat Stabilized Nylon 6.6	Black	Indoors	Push Barb	1000	5000
PBMSL-H25-M30*		0.29	7.2	0.250	6.4						

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.
*not cULus listed

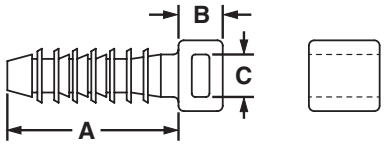
Order number of pieces required, in multiples of Standard Package Quantity.

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Masonry Push Mounts

- Used to secure wire, cable, or tubing to masonry surfaces
- Installed quickly into pre-drilled holes; design holds bundle securely
- Material: Impact Modified Weather Resistant Nylon 6.6





Part Number	Used with Cable Ties‡	Grip Length A		Height B		Hole Diameter D		Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm					
Pan-Ty® Masonry Push Mounts												
MPMS19-C0	M, I, S	0.97	24.6	0.25	6.4	0.19	5.0	Black	Indoors/ Outdoors	Fir Tree Hole Mount	100	500
MPMS25-C0		0.97	24.6	0.27	6.9	0.25	6.4					
MPMH38-L0	M, I, S, HS, LH, H, HLM	1.25	31.8	0.30	7.5	0.38	9.5	Black	Indoors/ Outdoors	Fir Tree Hole Mount	50	
MPMWH32-L0*		1.41	35.8	0.28	7.1	0.32	8.0					
Super-Grip® Masonry Push Mounts												
SGMPMS19-C0	SGM, SGI, SGS	0.97	24.6	1.19	30.2	0.19	5.0	Black	Indoors/ Outdoors	Fir Tree Hole Mount	100	500
SGMPMS25-C0		0.97	24.6	1.24	31.5	0.25	6.4					
SGMPMH38-L0	SGM, SGI, SGS	1.25	31.8	1.49	37.8	0.38	9.5	Black	Indoors/ Outdoors	Fir Tree Hole Mount	50	
SGMPMWH32-L0*	SGM, SGI, SGS, SGLH, SGH	1.41	35.8	0.28	7.1	0.32	8.0	Black	Indoors/ Outdoors	Fir Tree Hole Mount	50	
Hyper-V™ Masonry Push Mounts												
HVMPM-08-C0	HV	1.41	35.8	1.63	41.4	0.31	8.0	Black	Indoors/ Outdoors	Fir Tree Hole Mount	100	500

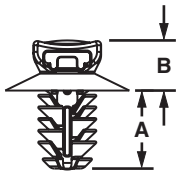
‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, HLM = Tak-Ty® Miniature, SGM = Super-Grip® Miniature, SGI = Super-Grip® Intermediate, SGS = Super-Grip® Standard, SGLH = Super-Grip® Light-Heavy, SGH = Super-Grip® Heavy, and HV = Hyper-V™.
*cRUus listed

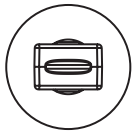
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Fir Tree Push Mounts

- Unique alternating barb design
- Lock securely into position
- Umbrella tensioning
- Exclusive contoured anvil head







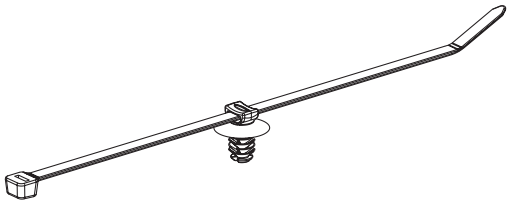
Part Number	Used with Cable Ties‡	Head Diameter		Panel to Top of Mount		Overall Height		Panel Hole Diameter Range		Panel Thickness Range		Material	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
PUM-049-M30	M, I, S	0.67	17.0	0.26	6.6	0.54	13.8	0.18 – 0.19	4.6 – 4.9	0.03 – 0.19	0.7 – 3.0	Heat Stabilized Nylon 6.6	1000	5000
PUM-071-M30	M, I, S	0.67	17.0	0.26	6.5	0.67	16.9	0.25 –0.28	6.3 – 7.1	0.03 – 0.28	0.8 – 7.0		1000	
PUM-100-M30		0.64	16.0	0.26	6.5	0.67	16.9	0.35 – 0.40	9.0 – 10.0	0.03 – 0.28	0.8 – 7.0			
PUM-925-M30	M, I, S, LH	0.77	20.0	0.30	7.6	1.05	26.7	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0		1000	
PUME925-D350	M, I, S, LH, H, EH	1.80	30.0	0.27	7.0	1.10	28.0	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0		500	

‡Cable Tie Cross Section: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy, H = Heavy, and EH = Extra Heavy.

Fir Tree Push Mount Assemblies

- Cable tie/mount assemblies significantly reduce installation time compared to loose parts
- Fewer parts throughout the manufacturing/ assembly process





Part Number	Head Diameter		Panel to Top of Mount		Overall Height		Panel Hole Diameter Range		Panel Thickness Range		Max. Bundle Diameter		Material	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
PUM-049-2S-D30	0.67	17.0	0.26	6.6	0.54	13.8	0.18 – 0.19	4.6 – 4.9	0.03 – 0.19	0.7 – 3.0	1.88	48.0	Heat Stabilized Nylon 6.6	500	5000
PUM-071-2S-D30	0.67	17.0	0.26	6.6	0.67	16.9	0.25 – 0.28	6.3 – 7.1	0.03 – 0.28	0.8 – 7.0	1.88	48.0		500	5000
PUM-100-2S-D30	0.64	16.0	0.26	66	0.67	16.9	0.35 – 0.40	9.0 – 10.0	0.03 – 0.28	0.8 – 7.0	1.88	48.0			
PUM-925-3H-T30	0.77	20.0	0.30	7.6	1.05	26.7	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0	3.00	76.0		200	1000
PUME925-3E-C350	1.80	30.0	0.27	7.0	1.1	28	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0	3.25	82.6		100	1000
PUME925-4E-C350	1.80	30.0	0.27	7.0	1.1	28	0.34 – 0.36	8.8 – 9.3	0.04 – 0.62	1.0 – 16.0	4.13	105.0			

‡Use with PLT2S Cable Ties except PUM-925-3H-T30, use with PLT3H Cable Ties.

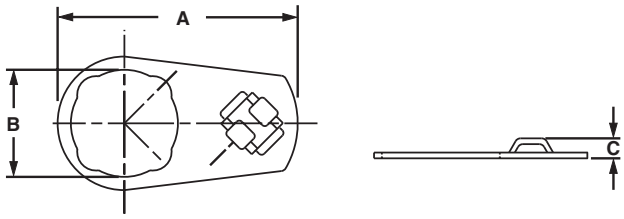
Order number of pieces required, in multiples of Standard Package Quantity.

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Control Panel Mounts

- Installed behind control panel switch
- Ideal for high strain areas where cable is routed from panel to panel door
- Compatible with most control panel switch designs
- Indoor use only





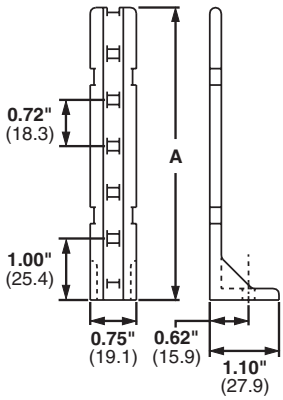
Part Number	Used with Cable Ties‡	Length A		Width B		Height C		Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm				
CPM87S-C	M, I, S	2.01	51.1	0.89	22.6	0.17	4.3	Zinc plated steel	Control panel switch	100	1000
CPM122S-C		2.82	71.7	1.22	31.0	0.17	4.3				

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Pan-Post™ Standoff

- Supports cable bundles above or away from surface
- For indoor use only
- Material: Nylon 6.6





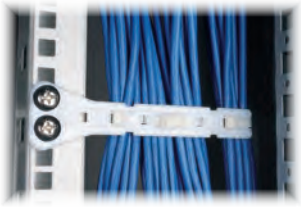
Part Number	Used with Cable Ties‡	Height A		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm				
PP1S-S10-X	M, I, S	2.00	50.8	Natural	#10 (M5) Screw	10	100
PP1S-S12-X					#12 (M5.5) Screw		
PP2S-S10-X		4.60	116.8		#10 (M5) Screw		
PP2S-S12-X					#12 (M5.5) Screw		
PP2S-S10-C0				Black	#10 (M5) Screw	100	1000

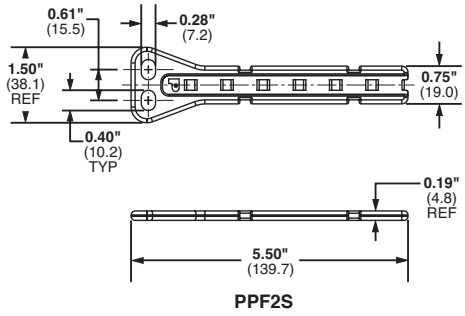
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

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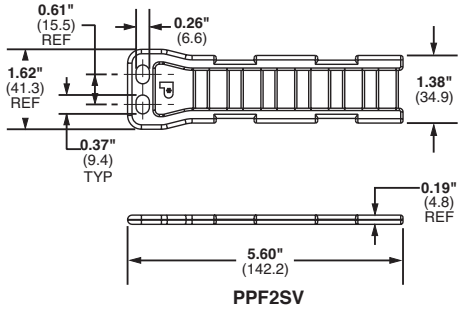
Flat Pan-Post™ Standoffs

- Standard EIA hole spacing allows product to be mounted with user supplied screws up to 1/4" diameter
- Organize cables in standard cabinets and racks
- Mounting method: 1/4" (M6) screw
- Use where space is limited
- For indoor use only





PPF2S



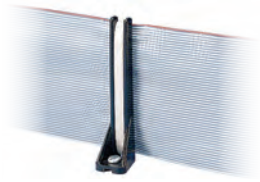
PPF2SV

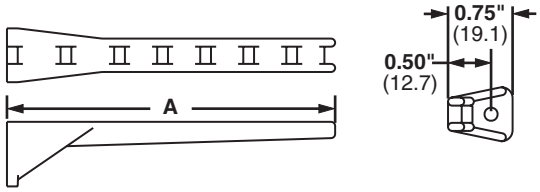
Part Number	Used with Cable Ties‡	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
PPF2S-S25-V	M, I, S	Nylon 6.6	Natural	Two 1/4" (M6) screws	5	100
PPF2S-S25-V69		Flame Retardant Nylon 6.6				
PPF2SV-S25-V	M, I, S, HS, LH, H, HLM, HLS	Nylon 6.6				
PPF2SV-S25-V69		Flame Retardant Nylon 6.6				

‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, HLM = Miniature Tak-Ty® Hook & Loop Ties and HLS = Standard Tak-Ty® Hook & Loop Ties.

Right Angle Bases

- Support cable above the mounting surface





Part Number	Used with Cable Ties‡	Max. Flat Cable Width		Length A		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm						
RAFCBI1-S6-C20	I	1.00	25.4	1.75	44.4	Nylon 6.6	Black	Indoors	#6 (M3) Screw	100	1000
RAFCBI2-S6-C20	I	2.00	50.8	2.78	70.6						
RAFCBI3-S6-C20	I	3.00	76.2	3.81	96.8						

‡Cable tie cross section sizes: I = Intermediate.

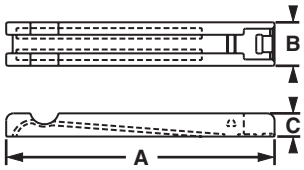
Order number of pieces required, in multiples of Standard Package Quantity.

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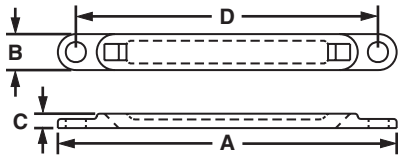
Flat Cable Mounting System – FCB Base and FCPI Plate

- Secures stacked cables, folds, and breakouts, as well as laminated and molded bus bars
- Use one base, one corresponding size plate (FCPI), and one Intermediate cross section cable tie
- For indoor use only
- See also Latching Flat Cable Mounts on page B2.35
- Material: Nylon 6.6





FCPI



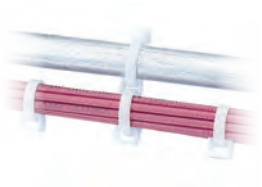
FCBI

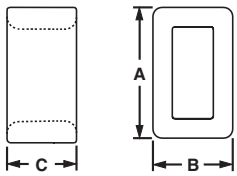
Part Number	Max. Flat Cable Width In.	Max. Flat Cable Width mm	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Hole Spacing D In.	Hole Spacing D mm	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
FCBI1-A-C20	1.04	26.4	2.50	63.5	0.38	9.5	0.15	3.8	—	—	Black	User Supplied Adhesive	100	1000
FCBI2-A-C20	2.04	51.8	3.50	88.9	0.38	9.5	0.15	3.8	—	—				
FCBI3-A-C20	3.32	7.72	4.52	114.8	0.38	9.5	0.15	3.8	—	—				
FCBI1-S10-C20	1.04	26.4	2.50	63.5	0.38	9.5	0.15	3.8	2.08	52.8	Black	#10 (M5) Screw		
FCBI2-S10-C20	2.04	51.8	3.50	88.9	0.38	9.5	0.15	3.8	3.10	78.7				
FCBI3-S10-C20	3.32	7.72	4.52	114.8	0.38	9.5	0.15	3.8	4.12	104.6				
FCPI1-C20*	1.04	26.4	1.29	32.8	0.38	9.5	0.20	5.1	—	—	Black	Cable Ties		
FCPI2-C20*	2.04	51.8	2.31	58.7	0.38	9.5	0.20	5.1	—	—				
FCPI3-C20*	3.32	7.72	3.32	84.3	0.38	9.5	0.20	5.1	—	—				

*Recommend for use with PLT2I cable ties on page B1.8

Closed Connector Rings

- Connect multiple cable bundles





Part Number	Used with Cable Ties‡	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CR2-M	M, I, S	0.33	8.4	0.20	5.1	0.20	5.0	Nylon 6.6	Natural	Indoors	Cable Ties	1000	10000
CR4H-M	M, I, S, HS, LH	0.57	14.5	0.36	9.1	0.30	7.6	Nylon 6.6	Natural	Indoors			
CR4H-M0		0.57	14.5	0.36	9.1	0.30	7.6	Weather Resistant Nylon 6.6	Black	Indoors/ Outdoors			

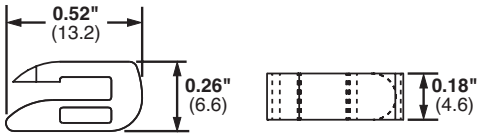
‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard and LH = Light-Heavy.

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Open Connector Ring

- Designed to add on cable bundles without removing cable ties





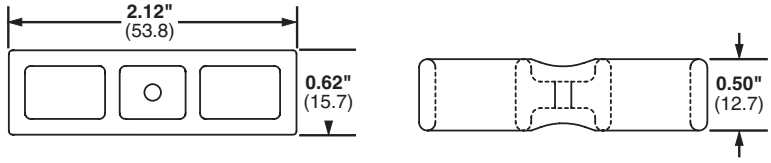
Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CROS-M	M, I, S	Nylon 6.6	Natural	Indoors	Cable Ties	1000	5000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Cable Spacers

- Used to separate and/or hang cords, cables, and tubing





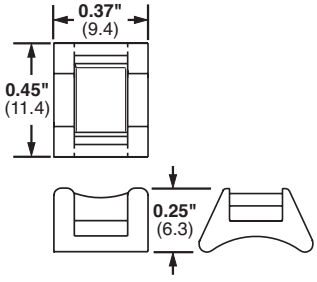
Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CSH-D20	M, I, S, HS, LH, H	Nylon 6.6	Black	Indoors	Cable Ties	500	2500
CSH-D0		Weather Resistant Nylon 6.6	Black	Indoors/Outdoors			

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy and H = Heavy.

Cable Spacer Cross

- Connects two bundles at 90°
- Separates bundles to prevent abrasion
- Dual cradle design stabilizes cable bundle





Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CSCS-M	M, I, S	Nylon 6.6	Natural	Indoors	Cable Ties	1000	10000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

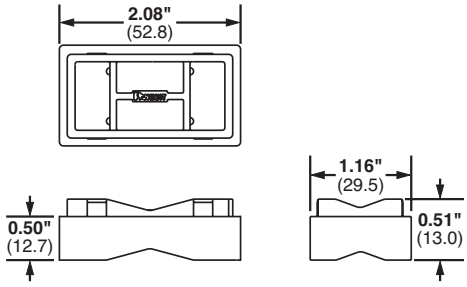
Order number of pieces required, in multiples of Standard Package Quantity.

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Stackable Aerial Cable Spacer

- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use
- Each spacer snaps into another to increase spacer heights by 1/2" increments
- Designed for use in parallel or perpendicular applications
- For use with Dura-Ty™ Cable Ties shown on page B1.51 or Pan-Steel® Self-Locking Ties on page B3.5 – B3.6.





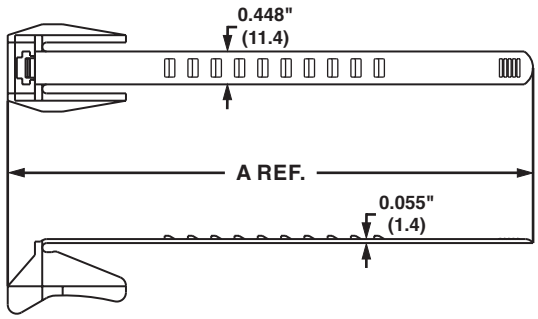
Part Number	Used with Cable Ties‡	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
SACS50-T100	LH, H, EH	Weather Resistant Polypropylene	Black	Outdoors	Cable Ties	200	2000

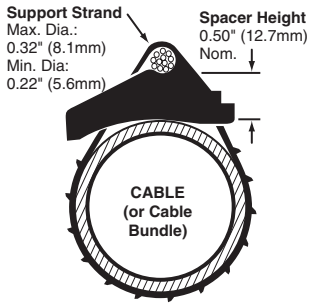
*Cable tie cross sizes: LH = Light-Heavy, H = Heavy, and EH = Extra-Heavy.

Aerial Support Ties – Weather Resistant Polypropylene

- Designed to attach coax or telephone cable to the 1/4" (6.4mm) or 5/16" (7.9mm) support strand to form the expansion loop and keep equipment and cables clear of pole hardware
- One-piece construction with integral 1/2" (12.7mm) spacer reduces inventory costs of separate spacer and bands, and installs faster to lower installed cost
- Releasable and re-usable
- Hand install only







Assembled View

Part Number	Length A		Max. Bundle Diameter		Min. Loop Tensile Strength		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N		
AST10-5-C100	5.6	142	1.00	25	75	334	100	1000
AST15-5-C100	6.9	175	1.50	38	75	334		
AST20-5-C100	8.4	214	2.00	51	75	334		
AST25-5-C100	10.0	254	2.50	64	75	334		

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Permanent Marking Pens

- Fast drying, permanent ink for identification on marker ties (pages B1.32, B1.50), marker plates (page B2.26), or cable marker straps (page B1.76)
- May be used with any label shown in the catalog when a printer is not available



PX-0
PX-2



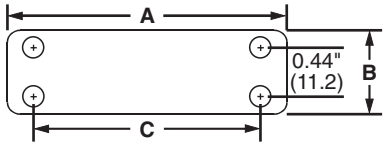
PX-10

Part Number	Color	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PX-0	Black	Permanent marking pen – regular tip	12	144
PX-2	Red			
PX-10	White	Marking pen for black or other dark colored parts – regular tip	12	300

Marker Plates – Loose Piece

- Install as flags, tags, or wrap-around identification plates to clearly identify all wire harnesses
- Use with nylon marking pens for an easy and economic alternative to identify wire harnesses
- Available in black or white to match the wire harness
- Thickness: 0.02 inches (0.5mm)





Part Number	Used with Cable Ties‡	Length A		Width B		Hole Spacing C		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm						
MP150-C	M, I, S	1.50	38.1	0.75	19.0	1.03	26.2	Nylon 6.6	White	Indoors	Cable Ties	100	500
MP175-C		1.75	44.4	0.75	19.0	1.28	32.5						
MP200-C		2.00	50.8	0.75	19.0	1.53	38.9						
MP250-C		2.50	63.5	0.75	19.0	2.03	51.6						
MP350-C	M, I, S	3.50	88.9	0.75	19.0	3.03	77.7	Nylon 6.6	White	Indoors	Cable Ties	100	1000
MP250W175-C		2.50	63.5	1.75	44.5	2.03	51.6						
MP150-C0	M, I, S	1.50	38.1	0.75	19.0	1.03	26.2	Weather Resistant Nylon 6.6	Black	Indoors/ Outdoors	Cable Ties	100	500
MP175-C0		1.75	44.4	0.75	19.0	1.28	32.5						
MP200-C0		2.00	50.8	0.75	19.0	1.53	38.9						
MP250-C0		2.50	63.5	0.75	19.0	2.03	51.6						
MP350-C0	M, I, S	3.50	88.9	0.75	19.0	3.03	77.7	Weather Resistant Nylon 6.6	Black	Indoors/ Outdoors	Cable Ties	100	1000

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

Order number of pieces required, in multiples of Standard Package Quantity.

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Cable and Wire Mounting Devices (Used without Cable Ties)



Wiring accessories are an integral part of the Panduit comprehensive selection of wire management products.

These accessories are one piece solutions that help provide the lowest installed cost for controlling, mounting, and protecting wire and cable. Mounting methods include:

- Adhesive-backed
- Screw applied
- Rivet applied
- Push mounts

Adhesive Backed Mounting Devices

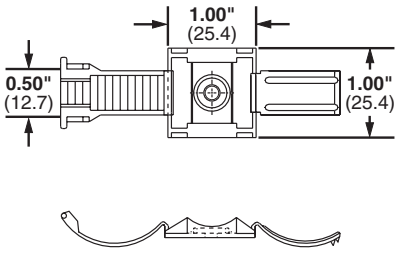
Faster Liner Removal Speeds Installation and Lowers Installed Cost

- The adhesive backed mounts are offered either as one or two mounts per liner
- The 2-up mounts are easily removed by bending the mounts away from the liner
- The individual mounts have a convenient tear tab for quick removal

Clincher™ Adjustable Releasable Clamp

- Adjustable clamp designed to contain a range of cable bundle diameters
- Latch can be released to provide access to cable bundles
- For indoor use only
- Material: Polypropylene





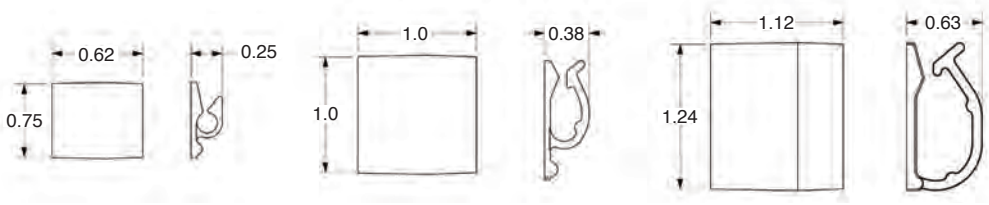
Part Number	Bundle Diameter Range		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm				
ARC.68-A-Q	0.19 – 0.68	4.8 – 17.3	White	Rubber Adhesive Tape	25	250
ARC.68-A-Q14	0.19 – 0.68	4.8 – 17.3	Gray			
ARC.68-S6-Q	0.19 – 0.69	4.8 – 17.5	White	#6 (M3) Screw		
ARC.68-S6-Q14	0.19 – 0.69	4.8 – 17.5	Gray			

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Adhesive Backed Cord Clips

- Cables are easily snapped into or out of the clips





A
Max Bundle: 0.19"

B
Max Bundle: 0.38"

C
Max Bundle: 0.62"

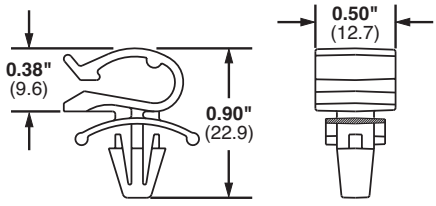
	Max. Bundle Dia.: 0.19"	Max. Bundle Dia.: 0.38"	Max. Bundle Dia.: 0.62"
Natural Nylon 6.6; Rubber Adhesive; 100 pc/pkg	ACC19-A-C	ACC38-A-C	ACC62-A-C
Natural Nylon 6.6; Acrylic Adhesive; 100 pc/pkg	ACC19-AT-C	ACC38-AT-C	ACC62-AT-C
Black Nylon 6.6; Rubber Adhesive; 100 pc/pkg	ACC19-A-C0	ACC38-A-C0	ACC62-A-C0
Black Weather Resistant Nylon 6.6; Acrylic Adhesive; 100 pc/pkg	ACC19-AT-C0	ACC38-AT-C0	ACC62-AT-C0
Black Heat Stabilized Weather Resistant Nylon; High Bond Acrylic Adhesive, 1,000 pc/pkg	ACC19-AV-M300*	ACC38-AV-M300*	ACC62-AV-M300*

*Not UL recognized

Push Mount Cord Clip

- Cables are easily snapped into or out of clips
- Winged design holds mount in place even in applications where vibration is present
- Design of wing provides added stability





Part Number	Max. Bundle Diameter		Max. Panel Thickness		Panel Hole Diameter		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm						
PMCC38H25-C	0.38	9.6	0.105	2.7	0.250	6.4	Nylon 6.6	Natural	Indoors	Push Barb	100	1000
PMCC38H25-M0	0.38	9.6	0.105	2.7	0.250	6.4	Weather Resistant Nylon 6.6	Black	Outdoors		1000	5000

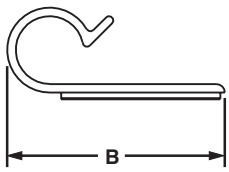
Order number of pieces required, in multiples of Standard Package Quantity.

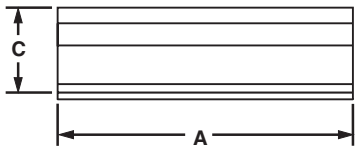
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"J" Clips

- Low profile clips retain cords, cables, or tubing
- Flexible design allows for easy cord insertion, yet holds bundle tightly
- For indoor use only
- Material: PVC





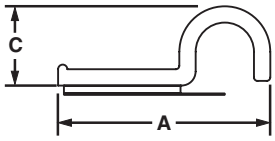


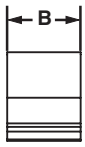
Part Number	Max. Bundle Diameter		Length A		Width B		Height C		Diameter		Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
AJC12-A-C	0.12	3.0	1.00	2.54	0.86	21.8	0.19	4.8	0.13	3.3	Light Gray	Rubber Adhesive Tape	100	500
AJC19-A-C	0.19	4.8	1.25	3.18	0.87	22.1	0.26	6.6	0.18	4.6				
AJC25-A-C	0.25	6.4	1.50	38.1	0.97	24.6	0.31	7.9	0.23	5.8				
AJC31-A-C	0.31	7.9	1.75	44.5	1.22	30.1	0.40	10.2	0.29	7.4				
AJC38-A-C	0.38	9.6	2.00	50.8	1.27	32.3	0.50	12.7	0.39	9.9	Light Gray	Rubber Adhesive Tape	100	1000

A1C Type Clips

- Hold cords, cables, and tubing
- Single rubber adhesive pad for confined areas
- For indoor use only
- Material: PVC







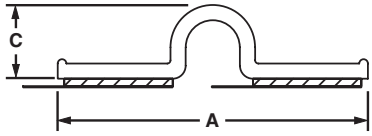
Part Number	Max. Bundle Diameter		Length A		Width B		Height C		Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
A1C12-A-C8	0.12	3.0	0.77	19.6	0.63	16.0	0.23	5.8	Light Gray	Rubber	100	1000
A1C25-A-C8	0.25	6.4	0.91	23.1	0.63	16.0	0.38	9.7				
A1C38-A-C8	0.38	9.5	1.04	26.4	0.63	16.0	0.51	13.0				
A1C50-A-C8	0.50	12.7	1.17	29.7	0.63	16.0	0.64	16.3				

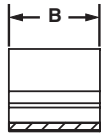
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A2C Type Clips

- Hold cords, cables, and tubing
- Two rubber adhesive pads for added strength
- For indoor use only
- Material: PVC





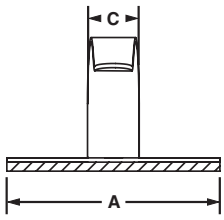


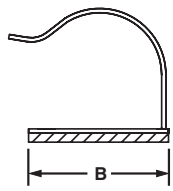
Part Number	Max. Bundle Diameter		Length A		Width B		Height C		Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
A2C12-A-C8	0.12	3.0	1.30	33.0	0.63	16.0	0.23	5.8	Light Gray	Rubber	100	1000
A2C25-A-C8	0.25	6.4	1.43	36.3	0.63	16.0	0.36	9.1				
A2C38-A-C8	0.38	9.5	1.56	39.6	0.63	16.0	0.49	12.4				
A2C50-A-C8	0.50	12.7	1.72	43.7	0.63	16.0	0.61	15.5				

Metal Adhesive Backed Cord Clips

- Can be opened and closed without damaging clip in order to remove or add cables quickly and easily
- For indoor use only







Part Number	Max. Bundle Diameter		Length A		Width B		Clip Width C		Material	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
MACC25-A-C	0.25	6.4	0.77	19.6	0.54	13.7	0.29	7.4	Zinc Plated Steel	Rubber	100	1000
MACC62-A-C	0.62	15.7	1.18	30.0	0.78	19.7	0.29	7.4				
MACC25-AV-D	0.25	6.4	0.77	19.6	0.54	13.7	0.29	7.4	Zinc Plated Steel	High Bond Acrylic	500	
MACC62-AV-C	0.62	15.7	1.18	30.0	0.78	19.7	0.29	7.4	Zinc Plated Steel	High Bond Acrylic	100	

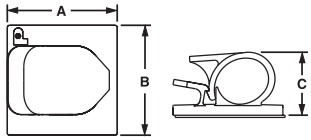
Order number of pieces required, in multiples of Standard Package Quantity.

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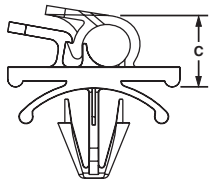
Latching Wire Clips

- Route and secure cords and cables
- Convenient releasable latch
- Available in six sizes with releasable latch
- Push barb parts are for use with a max panel thickness of 0.11" (2.7mm) and a hole diameter of 0.22" (5.6mm)
- For indoor use only
- Material: Nylon 6.6





LWC**-A



LWC**-H25

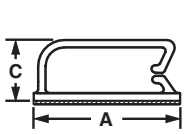
Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length In.	Length mm	Width In.	Width mm	Height In.	Height mm	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed												
LWC19-A-C	0.19	4.8	0.85	21.6	0.61	15.5	0.39	9.9	Natural	Rubber Adhesive	100	1000
LWC19-A-C14	0.19	4.8	0.85	21.6	0.61	15.5	0.39	9.9	Gray			
LWC19-A-C20	0.19	4.8	0.85	21.6	0.61	15.5	0.39	9.9	Black			
LWC25-A-C	0.25	6.4	0.88	22.2	1.00	25.4	0.45	11.4	Natural			
LWC25-A-C14	0.25	6.4	0.88	22.2	1.00	25.4	0.45	11.4	Gray			
LWC25-A-C20	0.25	6.4	0.88	22.2	1.00	25.4	0.45	11.4	Black			
LWC38-A-C	0.38	9.5	1.00	25.4	1.00	25.4	0.56	14.2	Natural			
LWC38-A-C14	0.38	9.5	1.00	25.4	1.00	25.4	0.56	14.2	Gray			
LWC38-A-C20	0.38	9.5	1.00	25.4	1.00	25.4	0.56	14.2	Black			
LWC50-A-L	0.50	12.7	1.26	32.0	1.00	25.4	0.67	17.0	Natural	Rubber Adhesive	50	1000
LWC50-A-L14	0.50	12.7	1.26	32.0	1.00	25.4	0.67	17.0	Gray			
LWC50-A-L20	0.50	12.7	1.26	32.0	1.00	25.4	0.67	17.0	Black			
LWC75-A-L	0.75	19.1	1.48	37.6	1.24	31.5	0.90	22.9	Natural			
LWC75-A-L14	0.75	19.1	1.48	37.6	1.24	31.5	0.90	22.9	Gray			
LWC75-A-L20	0.75	19.1	1.48	37.6	1.24	31.5	0.90	22.9	Black			
LWC100-A-L	1.00	25.4	2.21	56.1	1.97	50.0	1.26	32.0	Natural			
LWC100-A-L14	1.00	25.4	2.21	56.1	1.97	50.0	1.26	32.0	Gray			
LWC100-A-L20	1.00	25.4	2.21	56.1	1.97	50.0	1.26	32.0	Black			
Push Mount												
LWC19-H25-C	0.19	4.8	0.85	21.6	0.51	12.8	0.41	10.4	Natural	Push Barb	100	1000
LWC19-H25-C14	0.19	4.8	0.85	21.6	0.51	12.8	0.41	10.4	Gray			
LWC25-H25-C	0.25	6.4	0.86	21.8	0.58	14.7	0.47	11.9	Natural			
LWC25-H25-C14	0.25	6.4	0.86	21.8	0.58	14.7	0.47	11.9	Gray			
LWC25-H25-C20	0.25	6.4	0.86	21.8	0.58	14.7	0.47	11.9	Black			
LWC38-H25-C	0.38	9.5	0.94	23.9	0.58	14.7	0.57	14.5	Natural			
LWC38-H25-C14	0.38	9.5	0.94	23.9	0.58	14.7	0.57	14.5	Gray			
LWC38-H25-C20	0.38	9.5	0.94	23.9	0.58	14.7	0.57	14.5	Black			
LWC50-H25-L	0.50	12.7	1.25	31.8	0.76	19.3	0.78	19.8	Natural	Push Barb	50	1000
LWC50-H25-L14	0.50	12.7	1.25	31.8	0.76	19.3	0.78	19.8	Gray			
LWC50-H25-L20	0.50	12.7	1.25	31.8	0.76	19.3	0.78	19.8	Black			
LWC75-H25-L	0.75	19.1	1.45	36.8	0.87	22.1	0.97	24.7	Natural			
LWC75-H25-L14	0.75	19.1	1.45	36.8	0.87	22.1	0.97	24.7	Gray			
LWC75-H25-L20	0.75	19.1	1.45	36.8	0.87	22.1	0.97	24.7	Black			
LWC100-H25-L	1.00	25.4	1.89	47.9	0.99	25.2	1.30	33.0	Natural			
LWC100-H25-L14	1.00	25.4	1.89	47.9	0.99	25.2	1.30	33.0	Gray			
LWC100-H25-L20	1.00	25.4	1.89	47.9	0.99	25.2	1.30	33.0	Black			

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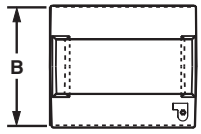
Bevel Entry Clips

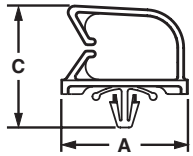
- Beveled entry allows for easy insertion of cable bundle





BEC





BECP

Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed														
BEC38-A-L	0.38	9.6	1.46	37.1	1.24	31.5	0.52	13.2	Nylon 6.6	Natural	Indoors	Rubber Adhesive	50	500
BEC38-A-L20	0.38	9.6	1.46	37.1	1.24	31.5	0.52	13.2	Nylon 6.6	Black				
BEC62-A-L	0.62	15.7	1.46	37.1	1.24	31.5	0.79	20.1	Nylon 6.6	Natural				
BEC62-A-L20	0.62	15.7	1.46	37.1	1.24	31.5	0.79	20.1	Nylon 6.6	Black				
BEC75-A-L	0.75	19.0	1.46	37.1	1.49	37.8	0.89	22.6	Nylon 6.6	Natural				
BEC75-A-L20	0.75	19.0	1.46	37.1	1.49	37.8	0.89	22.6	Nylon 6.6	Black				
Push Barb														
BECP38H25-L	0.38	9.6	1.46	37.1	0.73	18.5	1.00	25.4	Nylon 6.6	Natural	Indoors	Push Barb	50	500
BECP38H25-L20	0.38	9.6	1.46	37.1	0.73	18.5	1.00	25.4	Nylon 6.6	Black				
BECP75H25-L	0.75	19.0	1.47	37.3	0.73	18.5	1.00	25.4	Nylon 6.6	Black				
BECP75H25-L20	0.75	19.0	1.47	37.3	0.73	18.5	1.00	25.4	Nylon 6.6	Natural				

*For proper selection of adhesive see page B2.53.

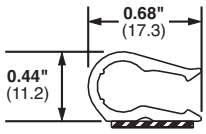
Order number of pieces required, in multiples of Standard Package Quantity.

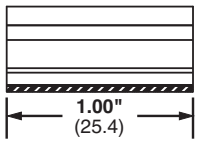
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Adhesive Backed Dual Cord Clip

- Holds two cables in high temperature applications





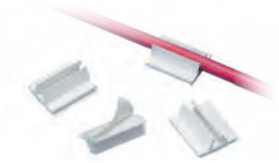


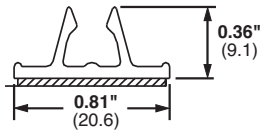
Part Number	Max. Bundle Diameter		Material	Color	Environment	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm						
Adhesive Backed								
ADCC31-AT-C10	0.33	9.0	NORYL*	White	Indoors	Acrylic	100	500

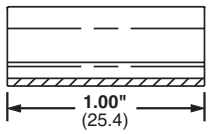
*NORYL Thermoplastic Resin is a registered trademark of General Electric Company.

Adhesive Backed Mount Cord Clip

- Holds a single cable
- Vertical cable entry for ease of installation
- Funnel entry speeds cable insertion





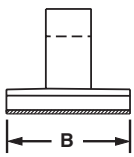


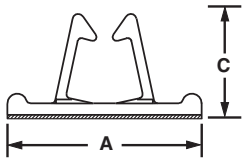
Part Number	Max. Bundle Diameter		Material	Color	Environment	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm						
Adhesive Backed								
AMC25-AT-C10	0.22 – 0.28	6.0 – 7.0	PVC	White	Indoors	Acrylic	100	1000

Vertical Cord Clips

- Funnel entry design allows for easy insertion of cords and cables
- Vertical cable entry for ease of installation
- For indoor use only





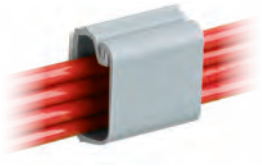


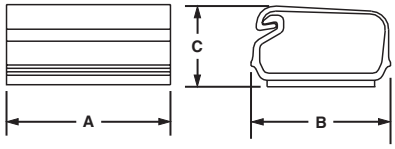
Part Number	Max. Bundle Diameter		Length A		Width B		Height C		Material	Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm					
Adhesive Backed													
VCC25-A-C	0.25	6.4	1.00	25.4	0.50	12.7	0.44	11.2	Nylon 6.6	Natural	Rubber	100	500
VCC50-A-C	0.25	12.7	1.56	39.7	1.00	25.4	0.81	20.6					

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Adhesive Backed Latching Clips

- Latching cover withstands vibration
- For indoor use only



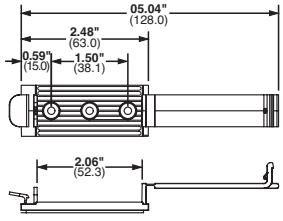


Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length A In.	Length A mm	Width B In.	Width B mm	Height C In.	Height C mm	Material	Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
LC3-A-C8	0.20	5.0	0.75	19.1	0.75	19.0	0.47	11.9	PVC	Light Gray	Rubber	100	1000
LC5-A-C8	0.36	9.1	1.01	25.7	1.01	25.7	0.61	15.5					
LC10-A-L8	0.93	23.6	1.51	38.4	1.51	38.4	0.84	21.3	PVC	Light Gray	Rubber	50	500

Cable Holder – Adhesive Backed

- Convenient releasable latch allows easy addition and removal of cables
- Low profile design provides a compact cable routing solution
- For indoor use only

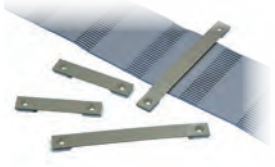


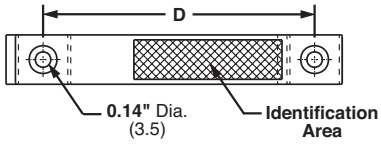


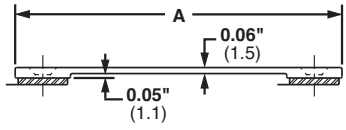
Part Number	Cable Width In.	Cable Width mm	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CH105-A-C14	2.06	52.3	Nylon 6.6	Gray	Rubber Adhesive Tape	100	1000
CH105-S6-C14	2.06	52.3	Nylon 6.6	Gray	#6 (M3) Screw		

Low Profile Flat Cable Mounts

- Three sizes provide a cost effective flat cable containment for stack heights up to 0.105 inches (2.7mm)
- Features a matte, textured surface, for either hand written identification or application of computer labels
- Low profile design holds wires, cables, and tubing
- For indoor use only







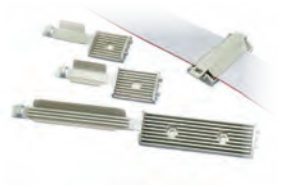
Part Number	Cable Width In.	Cable Width mm	Length A In.	Length A mm	Hole Spacing D In.	Hole Spacing D mm	Material	Color	Adhesive Type	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed											
LPFCM14-A-C14	1.44	37.0	2.56	65.0	0.75	19.0	Nylon 6.6	Gray	Rubber	100	500
LPFCM22-A-C14	2.19	56.0	3.31	84.0	1.01	25.7					
LPFCM34-A-C14	3.44	87.0	4.56	115.8	1.51	38.4					

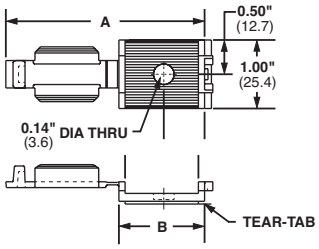
Order number of pieces required, in multiples of Standard Package Quantity.

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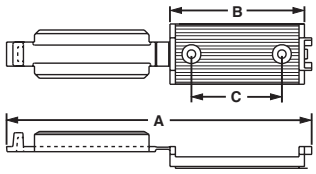
Latching Flat Cable Mounts

- Available in four sizes with a stack height of 0.17 inches (4.3mm) to accommodate different flat cable widths
- Low profile design holds wires, cables, and tubing
- Convenient releasable latch
- Large mounting base for high bonding strength
- For indoor use only
- Material: Nylon 6.6





FCM1 and FCM1.2



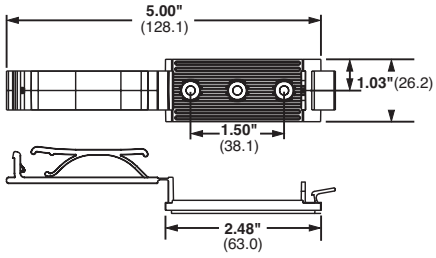
FCM2 and FCM3.25

Part Number	Cable Width In.	Cable Width mm	Length A In.	Length A mm	Width B In.	Width B mm	Hole Spacing C In.	Hole Spacing C mm	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed												
FCM1-A-C14	1.05	26.7	2.90	73.7	1.05	26.7	—	—	Gray	Rubber Adhesive	100	500
FCM1.2-A-C14	1.20	30.5	3.16	80.3	1.37	34.8	—	—			100	1000
FCM2-A-C14	2.05	52.1	5.06	128.5	2.22	56.4	1.53	38.9			100	500
FCM3.25-A-L14	3.38	85.9	7.30	185.4	3.38	85.9	1.50	38.1	Gray	Rubber Adhesive	50	500
Screw Mounted												
FCM1-S6-C14	1.05	26.7	2.90	73.7	1.05	26.7	—	—	Gray	#6 (M3) Screw	100	1000
FCM1.2-S6-C14	1.20	30.5	3.16	80.3	1.37	34.8	—	—				
FCM2-S6-C14	2.05	52.1	5.06	128.5	2.22	56.4	1.53	38.9				
FCM3.25-S6-L14	3.38	85.9	7.30	185.4	3.38	85.9	1.50	38.1	Gray	#6 (M3) Screw	50	500

Latching Flat Cable Holders

- Low profile design holds wires, cables, and tubing
- Convenient releasable latch
- Large mounting base for high bonding strength
- For indoor use only
- See also Flat Cable Mounting System on Page B2.23
- Material: Nylon 6.6





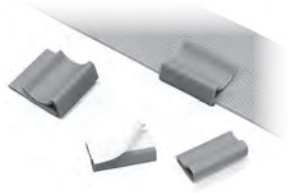
Part Number	Length In.	Length mm	Cable Width In.	Cable Width mm	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed								
FCH2-A-C14	2.48	63.0	2.06	50.8	Gray	Rubber Adhesive	100	500
FCH2-S6-C14	2.48	63.0	2.06	50.8	Gray	#6 (M3) Screw		

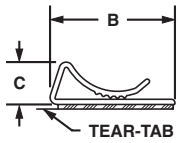
See also Flat Cable Mounting System on Page B2.23.

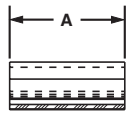
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Flat Cable Clips

- Use with any width flat cable for a maximum stack height of 0.17 inches (4.3mm)
- Low profile design holds wires, cables, and tubing
- For indoor use only
- Material: PVC





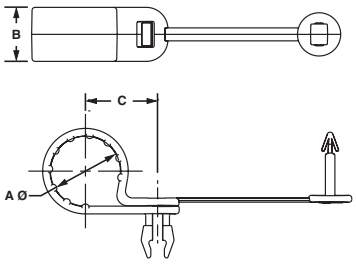


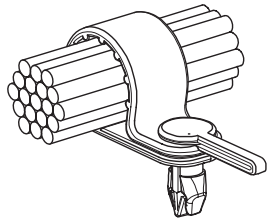
Part Number	Cable Width	Length A		Width B		Height C		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm				
FCC5-A-C8	Any width flat cable	1.00	25.4	0.56	14.2	0.29	7.4	Gray	Rubber	100	1000
FCC-A-C8		1.00	25.4	1.09	27.7	0.38	9.7				

Pan-Clamp™ Heavy Duty Fixed Diameter Clamps

- One-piece design significantly reduces installation time
- Integrated ribs prevent rotation of cable bundles and ensures secure grip on hoses
- Material: Impact modified Weather Resistant Nylon 6.6







Part Number	Max. Bundle Diameter A		Width B		Bundle Offset C		Max. Panel Thickness		Panel Hole Diameter		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
PC038-H25D-C0	0.38	9.5	0.62	15.7	0.64	16.3	0.13	3.2	0.28	7.1	Black	100	500
PC050-H25D-C0	0.50	12.7	0.62	15.7	0.71	17.9	0.13	3.2	0.28	7.1			
PC062-H25D-C0	0.63	15.8	0.62	15.7	0.77	19.5	0.13	3.2	0.28	7.1			
PC075-H25D-C0	0.75	19.1	0.62	15.7	0.83	21.1	0.13	3.2	0.28	7.1		100	1000
PC087-H25D-C0	0.88	22.1	0.62	15.7	0.89	22.7	0.13	3.2	0.28	7.1			
PC100-H25D-C0	1.00	25.4	0.62	15.7	0.96	24.3	0.13	3.2	0.28	7.1			
PC112-H25D-C0	1.13	28.5	0.62	15.7	1.02	25.8	0.13	3.2	0.28	7.1			
PC125-H25D-C0	1.25	31.8	0.62	15.7	1.08	27.4	0.13	3.2	0.28	7.1			

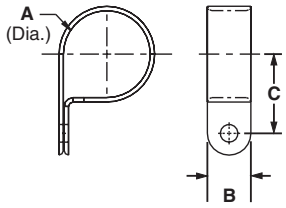
Order number of pieces required, in multiples of Standard Package Quantity.

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Fixed Diameter Cable Clamps

- Durable Nylon 6.6 cable clamps





Part Number	Max. Bundle Diameter A		Width B		Bundle Offset C		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
CCS12-S8-C	0.12	3.1	0.37	9.4	0.33	8.4	#8 (M4) Screw	100	500
CCS19-S8-C	0.19	4.8	0.37	9.4	0.43	10.9			
CCS25-S8-C	0.25	6.3	0.37	9.4	0.41	10.4			
CCS25-S10-C	0.25	6.3	0.37	9.4	0.41	10.4	#10 (M5) Screw	100	500
CCS31-S8-C	0.31	7.9	0.37	9.4	0.49	12.4	#8 (M4) Screw	100	500
CCS38-S8-C	0.38	9.5	0.37	9.4	0.59	15.0			
CCS44-S8-C	0.44	11.1	0.37	9.4	0.57	14.5			
CCS50-S8-C	0.50	12.7	0.37	9.4	0.60	15.2			
CCH12-S10-C	0.12	3.1	0.50	12.7	0.36	9.1	#10 (M5) Screw	100	500
CCH19-S10-C	0.19	4.8	0.50	12.7	0.42	10.7			
CCH25-S10-C	0.25	6.3	0.50	12.7	0.46	11.7			
CCH31-S10-C	0.31	7.9	0.50	12.7	0.50	12.7			
CCH38-S10-C	0.38	9.5	0.50	12.7	0.53	13.5			
CCH44-S10-C	0.44	11.1	0.50	12.7	0.56	14.2			
CCH50-S10-C	0.50	12.7	0.50	12.7	0.59	15.0			
CCH56-S10-C	0.56	14.2	0.50	12.7	0.61	15.5			
CCH62-S10-C	0.62	15.7	0.50	12.7	0.65	16.5			
CCH69-S10-C	0.69	17.5	0.50	12.7	0.75	19.1			
CCH75-S10-C	0.75	19.1	0.50	12.7	0.78	19.8			
CCH81-S10-C	0.81	20.6	0.50	12.7	0.81	20.6			
CCH87-S10-C	0.87	22.1	0.50	12.7	0.84	21.3			
CCH100-S10-C	1.00	25.4	0.50	12.7	0.91	23.1			
CCH112-S10-C	1.12	28.4	0.50	12.7	0.97	24.6			
CCH119-S10-C	1.19	30.2	0.50	12.7	1.00	25.4			
CCH125-S10-C	1.25	31.8	0.50	12.7	1.06	26.9			
CCH138-S10-C	1.37	34.8	0.50	12.7	1.12	28.4			
CCH150-S10-C	1.50	38.1	0.50	12.7	1.19	30.2			

All parts listed are also available in black weather resistant material (add suffix 0). Bulk package only.

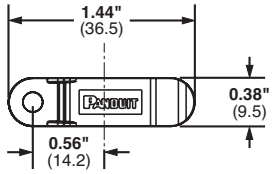
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Wire Retainers

- Wires slide into the clip and are held in place by tension
- Funnel entry design allows for easy insertion of cords and cables
- Low profile design holds wires, cables, and tubing



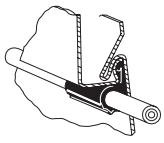


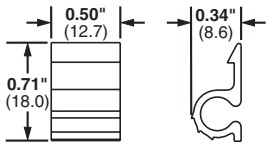


Part Number	Max. Bundle Diameter		Material	Color	Environment	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm						
TWR-C	0.38	9.5	Nylon 6.6	Natural	Indoors	#6 (M3) Screw	100	500
TWR-C0	0.38	9.5	Weather Resistant Nylon 6.6	Black	Outdoors			

Horizontal Siding Clips

- Low profile installs without drilling or nailing
- Attach coax cable to buildings having “Pittsburgh Interlok” type aluminum or steel siding
- Will not corrode or stain siding





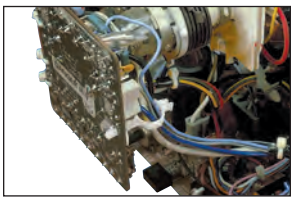
Part Number	Max. Bundle Diameter		Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm					
HSC.25-L	0.25	6.4	Nylon 6.6	White	Clip	50	500
HSC.25-L100	0.25	6.4	Weather Resistant Polypropylene	Black			

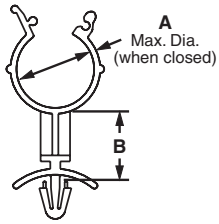
Order number of pieces required, in multiples of Standard Package Quantity.

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Wire Standoffs

- For retaining wires, cable, components or tubing away from panel or conductive chassis
- Finger grip flanges can be easily locked or unlocked for revisions
- Design of wing provides added stability
- Material: Nylon 6.6
- For indoor use only



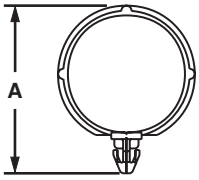


Part Number	Max. Bundle Diameter A		Standoff Height B		Max. Panel Thickness		Panel Hole Diameter		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
WS25-25-C	0.25	6.4	0.25	6.4	0.08	2.0	0.19	4.7	Natural	Push Barb	100	500
WS25-50-C	0.25	6.4	0.50	12.7	0.08	2.0	0.19	4.7				
WS25-75-C	0.25	6.4	0.75	19.1	0.08	2.0	0.19	4.7				
WS35-25-C	0.35	8.9	0.25	6.4	0.08	2.0	0.19	4.7				
WS35-50-C	0.35	8.9	0.50	12.7	0.08	2.0	0.19	4.7				
WS35-75-C	0.35	8.9	0.75	19.1	0.08	2.0	0.19	4.7				
WS50-25-C	0.47	11.9	0.25	6.4	0.08	2.0	0.19	4.7				
WS50-50-C	0.47	11.9	0.50	12.7	0.08	2.0	0.19	4.7				
WS50-75-C	0.47	11.9	0.75	19.1	0.08	2.0	0.19	4.7				
WS75-25-C	0.78	19.8	0.25	6.4	0.08	2.0	0.19	4.7				
WS75-50-C	0.78	19.8	0.50	12.7	0.08	2.0	0.19	4.7				
WS75-75-C	0.78	19.8	0.75	19.1	0.08	2.0	0.19	4.7				

Snap-In Clips

- Clip around bundle to hold securely in place
- Clips are placed on the bundle then attached to the panel
- Material: Nylon 6.6
- For indoor use only



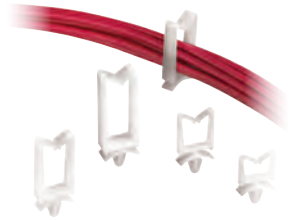


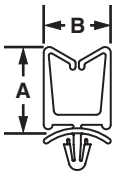
Part Number	Max. Bundle Diameter A		Standoff Height B		Max. Panel Thickness		Panel Hole Diameter		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
SICH25-C	0.25	6.4	0.40	20.9	0.10	2.5	0.25	6.4	Natural	Push Barb	100	500
SICH38-C	0.38	9.7	0.54	24.9	0.10	2.5	0.25	6.4				
SICH50-C	0.50	12.7	0.67	28.2	0.10	2.5	0.25	6.4				
SICH75-C	0.75	19.1	0.96	35.6	0.10	2.5	0.25	6.4				
SICH100-C	1.00	25.4	1.21	41.9	0.10	2.5	0.25	6.4				
SICH150-C	1.50	38.0	1.71	54.6	0.10	2.5	0.25	6.4				

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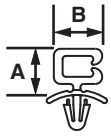
Wire Saddles

- Funnel entry design for fast insertion of wires and cables
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability
- Material: Nylon 6.6
- For indoor use only





VWS Vertical



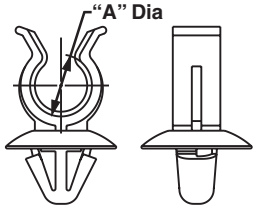
HWS Horizontal

Part Number	Max. Bundle Diameter		Height A		Width B		Max. Panel Thickness		Panel Hole Diameter		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
VWS3750-C	0.38 x 0.50	9.7 x 12.7	0.90	22.9	0.25	6.4	0.08	2.0	0.19	4.7	Natural	Push Barb	100	500
VWS3775-C	0.38 x 0.75	9.7 x 19.1	1.17	29.7	0.25	6.4	0.08	2.0	0.19	4.7				
VWS50100-C	0.50 x 1.00	12.7 x 25.4	1.47	37.3	0.25	6.4	0.08	2.0	0.19	4.7	Natural	Push Barb	100	1000
HWS2819-C	0.19 x 0.28	5.0 x 7.1	0.42	10.7	0.44	11.2	0.08	2.0	0.19	4.7	Natural	Push Barb	100	500

Corrugated Tubing Holder with Push Mount

- Use to secure and route all standard sizes of solid wall or slit corrugated loom tubing
- Ribs prevent lateral movement of corrugated loom tubing along the mount
- Rugged clip prevents accidental disassembly of tubing due to shock or vibration





Part Number	Nominal Diameter A		Max. Panel Thickness		Panel Hole Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm		
CTH19U04-C30	0.19	5	0.125	3.2	0.386	9.8	100	—
CTH35U08-C30	0.35	9	0.125	3.2	0.386	9.8	100	500
CTH38U10-C30	0.38	10	0.125	3.2	0.386	9.8	100	—
CTH50U13-C30	0.50	13	0.125	3.2	0.386	9.8		
CTH62U17-C30	0.62	17	0.125	3.2	0.386	9.8		
CTH87U22-C30	0.87	22	0.125	3.2	0.386	9.8		

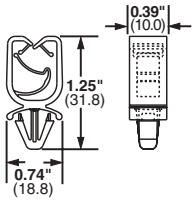
Order number of pieces required, in multiples of Standard Package Quantity.

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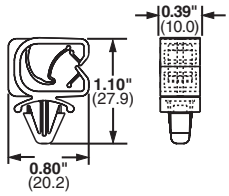
Harness Clips

- Integral “spring” holds wire bundles tightly
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability





HCMP06B



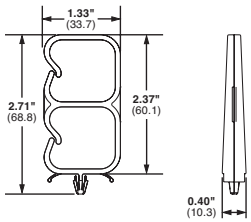
HCMP06C

Part Number	Max. Bundle Diameter Range		Max. Panel Thickness		Panel Hole Diameter		Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm					
HCMP06B12-M20	0.24 – 0.47	5.9 – 12.5	0.118	3.0	0.25	6.4	Nylon 6.6	Black	Push Mount	100	500
HCMP06C12-M20	0.24 – 0.47	5.9 – 12.5	0.105	2.7	0.25	6.4					

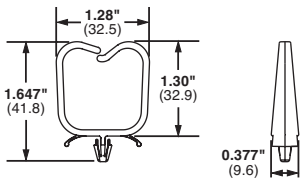
Optical Fiber Network Saddles

- Use in pre-drilled 0.18 inch (4.0mm) holes in panels up to 0.09 inch (2.0mm) thick
- Smooth rounded edges eliminate potential for snagging and stress on cable





VWSDC



VWS106

Part Number	Max. Bundle Diameter		Material	Mounting Method	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm					
VWSDC-C*	1.06	26.9	Nylon 6.6	Push Barb	Natural	100	500
VWSDC-C20*	1.06	26.9	Nylon 6.6	Push Barb	Black	100	—
VWS106-C	1.06	26.9	Nylon 6.6	Push Barb	Natural	100	500
VWS106-C20	1.06	26.9			Black		

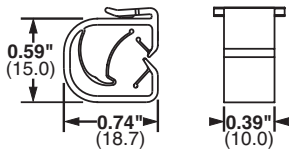
*Accepts two bundles.

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Nylon Edge Clips

- Integral “spring” holds wire bundles tightly
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability
- Indoor/Outdoor use





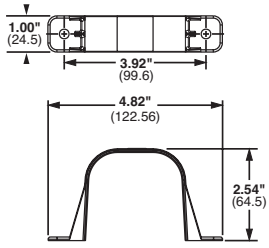
HCME06A12

Part Number	Max. Bundle Diameter Range		Max. Panel Thickness		Material	Color	Mounting Method	Std. Pkg. Qty.
	In.	mm	In.	mm				
HCME06Y12-M30	0.32 - 0.47	8.0 -12.0	0.16	4	Heat Stabilized Nylon 6.6	Black	Clip onto Edge	1000
HCME06A12-M130	0.24 - 0.47	6.0 - 12.0	0.05	1.2	Acetal			
HCME04Y09-M30	0.16 - 0.35	4.0 - 9.0	0.16	4	Heat Stabilized Nylon 6.6			
HCME06X12-VM139	0.24 - 0.47	6.0 - 12.0	0.09	2.2	Acetal	Natural	Clip onto Edge	5000

Wire Bundle Strap

- Securely routes large cable bundles
- Rounded edges prevent damage to cable jackets





Part Number	Bundle Retaining Area In.^{2}	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
WBS6-Q	6.00	ABS	White	Natural	25	125

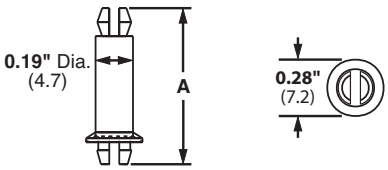
Order number of pieces required, in multiples of Standard Package Quantity.

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Circuit Board Posts

- For board-to-board or board-to-chassis mounting
- Bell flange on bottom end provides greater stability
- Releasable and reusable
- Material: Nylon 6.6
- Color: Natural



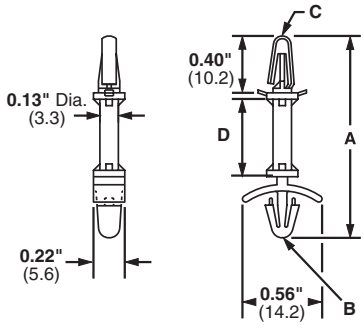


Part Number	Standoff Height		Height A		Panel Hole Diameter		Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
CBP12-C	0.12	3.0	0.40	10.2	0.156	3.96	Push Barb	100	500
CBP25-C	0.25	6.4	0.54	13.5	0.156	3.96			
CBP31-C	0.31	7.9	0.59	15.0	0.156	3.96			
CBP37-C	0.37	9.4	0.62	15.7	0.156	3.96			
CBP50-C	0.50	12.7	0.78	19.8	0.156	3.96			
CBP62-C	0.62	15.7	0.91	23.0	0.156	3.96			
CBP75-C	0.75	19.1	1.04	26.2	0.156	3.96			
CBP87-C	0.87	22.1	1.15	29.2	0.156	3.96			
CBP100-C	1.00	25.4	1.28	32.5	0.156	3.96			

Circuit Board Locking Supports

- For board-to-chassis support
- Snap-in design for fast assembly
- Design of wing provides added stability
- Releasable and reusable
- Material: Nylon 6.6





Part Number	Height A		Panel Hole Diameter B		Chassis Panel Hole Diameter C		Standoff Height D		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm				
CBLS18-C	0.92	23.4	0.19	4.8	0.16	4.0	0.19	4.7	Natural	Push Barb	100	500
CBLS25-C	0.98	24.9	0.19	4.8	0.16	4.0	0.25	6.4				
CBLS37-C	1.11	28.2	0.19	4.8	0.16	4.0	0.38	9.5				
CBLS50-C	1.23	31.2	0.19	4.8	0.16	4.0	0.50	12.7				
CBLS62-C	1.35	34.3	0.19	4.8	0.16	4.0	0.63	15.9				
CBLS75-C	1.48	37.5	0.19	4.8	0.16	4.0	0.75	19.1				

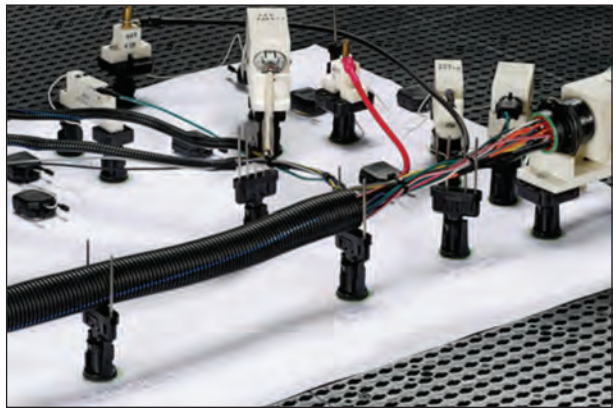
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Quick-Build™ Harness Board System

A Revolutionary Modular Solution for Harness Manufacturers

The modular, reusable solution consists of 1' X 1' (305mm x 305mm) grid tiles and specially designed, repositionable accessories that improve the productivity of wire harness assembly builds by up to 18%. The Quick-Build™ Accessories are more effective than nail, magnetic, or snap-in routing fixture methods. Accessories easily twist and lock in place until you're ready to make a change for faster routing of wires and design flexibility.

Low-Volume-High-Mix (LVHM) manufacturers achieve the greatest savings due to reduced material costs — up to 65% of layout and board builds. By reducing the number of bulky plywood boards, the Quick-Build™ Harness Board System delivers more than 50% in storage space savings. Whether you need to build a variety of wire and cable assemblies to meet different customer specifications or for prototyping new harness designs, the more you build, the greater your profitability.



Quick-Build™ Starter Kit

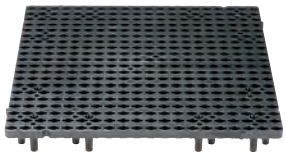
- Kit of Quick-Build™ components and various harness board accessories allows customers to evaluate the Quick-Build™ solution by simply ordering a single part number



Part Number	Description	Std. Pkg. Qty.
QB-KIT2	Starter Kit assortment that includes our core Quick-Build™ Components essential for faster wire harness builds. Black.	1
QB-KIT2-GRY	Starter Kit assortment that includes our core Quick-Build™ Components essential for faster wire harness builds. Gray.	

Quick-Build™ Grid Tile

- Install on top of plywood backing to provide mounting surface
- Secure to plywood with user supplied screws



Part Number	Description	Std. Pkg. Qty.
QB-TILE	1' X 1' (305mm x 305mm) square base component that allows Quick-Build™ mounting pegs and platforms to create a modular harness system. One package includes 8 tiles. Black.	1 PK
QB-TILE-GRY	1' X 1' (305mm x 305mm) square base component that allows Quick-Build™ mounting pegs and platforms to create a modular harness system. One package includes 8 tiles. Gray.	

Order number of pieces required, in multiples of Standard Package Quantity.

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Quick-Build™ Mounting Pegs

- Repositionable to allow user to build different harness configurations as needed
- Pointed end inserts through drawing secured to grid tiles, providing the ability to create a harness on top of a drawing

Replacement Washers	
Part Number	**Qty**
QB-WASHER-Q	25

Note: Required for use with Quick-Build™ mounting platform and Quick-Build™ nail holders to provide a modular harness board system



Part Number	Description	Std. Pkg. Qty
QB-MOUNT-L	Peg can be positioned and relocated. Accepts single nail holders, five nail holders, and Quick-Build™ mounting platforms. Allows accessories to rotate as needed even after mounting peg is installed into grid tile. Black.	50

Quick-Build™ Mounting Platform

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Provides the ability to rotate to allow breakouts and cable pathways to accommodate various harness design requirements
- Use Quick-Build™ mounting screws (sold separately, see page B2.45) to secure harness board accessories to the Quick-Build™ mounting platform



Part Number	Description	Std. Pkg. Qty
QB-BASE175-Q	Mounting platform that is inserted in Quick-Build™ mounting pegs 1.75" x 1.75" (44.45mm x 44.45mm). Allows elastic retainers, wire end holders, corner posts, bundle retainers and other harness board accessories to create a complete Quick-Build™ harness system. Compatible with: #4, #6, #8, and 1/4" screws. Black.	25
QB-BASE120-Q	Mounting platform that is inserted in Quick-Build™ pegs 1.2" x 1.2" (30.48mm x 30.48mm). Allows test fixtures corner posts, wire end holders, and other harness board accessories to be installed to provide a complete Quick-Build™ harness system. Compatible with #8 screw size. Screw length will vary based on test fixtures and accessories used. Note: Consider multiple QB-BASE120-Q components for large test fixtures. Black.	

Quick-Build™ Screws

- Used to secure traditional harness board accessories and test fixtures to Quick-Build™ mounting platform
- Phillips/slot combination screw style



Part Number	Description	Std. Pkg. Qty
QB-S6-500-C	#6 screw; 1/2" long	100
QB-S8-500-C	#8 screw; 1/2" long	
QB-S8-750-C	#8 screw; 3/4" long	
QB-S25-500-C	1/4" screw; 1/2" long	
QB-S25-1000-L	1/4" screw; 1" long	50

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Quick-Build™ Single Nail Holder

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of harness board nails (sold separately, see page B2.47)
- Use with single nails to create pathways and breakout channels



Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-SN1-Q	Single nail holder to accommodate one 1" nail. White	HBN1-T	25
QB-SN2-Q	Single nail holder to accommodate one 2" nail. Black	HBN2-T	
QB-SN3-Q	Single nail holder to accommodate one 3" nail. Gray	HBN3-T	

Quick-Build™ Five Nail Holder

- Requires the use of Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of up to five harness board nails (sold separately, see B2.47)
- Use with nails to create pathways and breakout channels with harness board nails



Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-FN1-Q	Five nail holder to accommodate up to five 1" nails. White	HBN1-T	25
QB-FN2-Q	Five nail holder to accommodate up to five 2" nails. Black	HBN2-T	
QB-FN3-Q	Five nail holder to accommodate up to five 3" nails. Gray	HBN3-T	

Quick-Build Wire End Holders

- Requires the use of Quick-Build™ Mounting Pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Multiple sizes available to provide a securing point for different gauge wires



Part Number	Description	Std. Pkg. Qty.
QB-WEH1012-Q	Wire end holder for Quick-Build™ System. Suitable for #10 – #12 gauge wire. Holds three wires. Yellow.	25
QB-WEH1416-Q	Wire end holder for Quick-Build™ System. Suitable for #14 – #16 gauge wire. Holds four wires. Blue.	
QB-WEH1822-Q	Wire end holder for Quick-Build™ System. Suitable for #18 – #22 gauge wire. Holds six wires. Red.	

Order number of pieces required, in multiples of Standard Package Quantity.

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Quick-Build™ Wire Elastic Retainers

- Requires the use of Quick-Build™ Mounting Pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Multiple sizes available to provide a securing point for different size bundles



Part Number	Description	Std. Pkg. Qty.
QB-RER.5-X	Quick-Build™ Peg with RER.5-S6-X pre-installed for use with Quick-Build™ System. Suitable for 1/2" bundle.	10
QB-RER.75-X	Quick-Build™ Peg with RER.75-S6-X pre-installed for use with Quick-Build™ System. Suitable for 3/4" bundle.	
QB-RER1.25-X	Quick-Build™ Peg with RER1.25-S6-X pre-installed for use with Quick-Build™ System. Suitable for 1.25" bundle.	
QB-RERBASE-X	Quick-Build™ Peg suitable for user to permanently install user-supplied RER.5-S6-X, RER.75-S6-X, or RER1.25-S6-X. Products sold separately – see below.	

Quick-Build™ Grid Tile Connector

- Optional accessory for use with grid tiles to prevent the need for plywood backing and ensure accurate alignment of grid system
- Recommended for adjacent tiles where corners of two or four tiles come together



Part Number	Description	Std. Pkg. Qty.
QB-CONN	Grid tile connector to ensure accurate alignment of Grid System. One package includes five pieces. Black	1

Traditional Harness Board Accessories

Panduit harness board accessories have been around for a long time and continue to provide easy routing and forming of wires in harness fabrication.

Harness Board Nails

- Manufactured from Nickel Plated Steel
- Smooth finish on nails prevents abrasion to wire jackets



Part Number	Description	Compatible QB Components (see Page B2.46)	Std. Pkg. Qty.
HBN1-T	Harness Board Nail - 1" long (1.65" overall).	QB-SN1-Q and QB-FN1-Q	200
HBN2-T	Harness Board Nail - 2" long (2.66" overall).	QB-SN2-Q and QB-FN2-Q	
HBN3-T	Harness Board Nail - 3" long (3.67" overall).	QB-SN3-Q and QB-FN3-Q	

Elastic Retainers – Replaceable Version



- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed
- The elastic band is replaceable

Replacement Elastic	
Part Number	Qty
RER.5E-X	10
RER.75E-X	
RER1.25E-X	
RER2.0E-X	

Part Number	Description	Compatible QB Components (see Page B2.45)	Std. Pkg. Qty.
RER.5-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.5" maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
RER.75-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.75" maximum bundle capacity.		
RER1.25-S6-X	Elastic retainer with replaceable elastic band. Suitable for 1.25" maximum bundle capacity.		
RER2.0-S6-X	Elastic retainer with replaceable elastic band. Suitable for 2.0" maximum bundle capacity.		

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Elastic Retainers

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed



Part Number	Description	Compatible QB Components (see B2.45)	Std. Pkg. Qty.
ER.5-E4-X	Elastic Retainer. Suitable for 0.5" maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
ER1.25-E4-X	Elastic Retainer. Suitable for 1.25" maximum bundle capacity.		

Bundle Retainers

- Funnel entry allows fast cable insertion
- Completed bundles can be easily removed



Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
BR.5-E6-C	Bundle Retainer. Suitable for 0.5" maximum bundle capacity. 1.07" standoff height. Black	QB-BASE175-Q and QB-S6-500-L	100
BR.75-E6-C	Bundle Retainer. Suitable for 0.75" maximum bundle capacity. 0.95" standoff height. Black		
BR2-1.3-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 1.32" standoff height. Black	QB-BASE175-Q and QB-S25-500-L	10
BR2-1.5-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 1.59" standoff height. Black	QB-BASE175-Q and QB-S25-1000-L	10
BR2-4-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 4.06" standoff height. Black		
BR2-6-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 6.02" standoff height. Black		

Corner Posts

- Designed to pre-form tight bundles at harness corners and breakouts
- Top arm rotates upward for easy removal of completed harness



Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
CPH.75-S8-X	Corner post to assist in tight corners of harness systems. 0.75" maximum bundle diameter. Center of bundle is 1.35" from surface.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
CPL.75-S8-X	Corner post to assist in tight corners of harness systems. 0.75" maximum bundle diameter. Center of bundle is 0.56" from surface.		

Wire End Holder

- Secures wire ends while harness is being fabricated
- Use with #28 thru #16 AWG wires



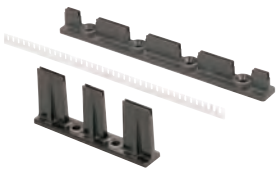
Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
WEH-E8-C	Use to retain end of wire in secure position. Helps when making terminations or dressing harness.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	100

Order number of pieces required, in multiples of Standard Package Quantity.

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Fanning Strip System

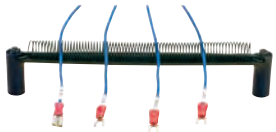
- Holds wires in a specific orientation
- No sharp edges to damage wire insulation
- Accepts wires up to 18 AWG
- Fanning strip can remain as part of completed harness



Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
FSH40-X	Fanning strip holder to elevate FS156 Fanning Strip 0.62" above surface. 6.00" long. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
FSHH-X	Fanning strip holder to elevate FS156 Fanning Strip 1.42" above surface. 3.2" long. Black		
FS156-C	Fanning strip with 76 spaces for wires up to 18 AWG. 12.1" long and 0.31" tall.	N/A	100

Spring Wire Breakout System

- Harness board spring and spring holder secures wire ends while harness is being fabricated
- Wires simply pull out from spring when harness is removed
- Each SHH Spring Holder is supplied with one rigid wire piece to hold the spring laterally and two #8 (M4), 2" (50.8mm) hex head wood screws; purchase spring separately



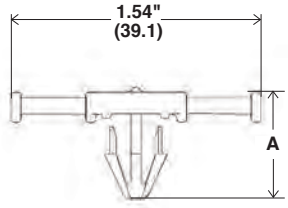
Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
SHH1-S8-X	Spring Wire Holder that elevates spring 1.3" above surface. Compatible with PBSC1-X spring. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
SHH3-S8-X	Spring Wire Holder that elevates spring 1.3" above surface. Compatible with PBSC3-X spring. Black		
PBSC1-X	Spring compatible with SHH1-S8-X Spring Wire Holder.	NA	
PBSC3-X	Spring compatible with SHH3-S8-X Spring Wire Holder.		
PBSC6-X	Spring used independent of Spring Wire Holder. Requires 6" spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.	QB-BASE175-Q and QB-S25-500-L	
PBSC12-X	Spring used independent of Spring Wire Holder. Requires 12" spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.		

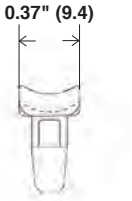
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Tie Harness Mounts for Corrugated Tubing

- Designed to be attached to the wire harness during assembly
- Cable ties can be installed by hand or with Panduit® automatic cable tie tools
- Used with harness board standoff posts
- A location tab on the mount shelf aligns with the corrugated tubing grooves to ensure proper mount location during assembly
- Natural nylon material for indoor use
- Heat stabilized nylon material (30) for high temperature applications – indoor use







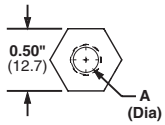
Part Number	Used with Cable Ties‡	Maximum Panel Thickness		Panel Hole Diameter		Height A		Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm					
THMSP20-C	M, I, S	0.160	4.1	0.244 – 0.283	6.2 – 7.2	0.65	16.5	Nylon 6.6	Natural	Push Barb	100	1000
THMSP20-C30	M, I, S	0.160	4.1	0.244 – 0.283	6.2 – 7.2	0.65	16.5	Heat Stabilized Nylon 6.6	Black			
THMSP25-C	M, I, S	0.230	5.8	0.244 – 0.283	6.2 – 7.2	0.72	18.3	Nylon 6.6	Natural			
THMSP25-C30	M, I, S	0.230	5.8	0.244 – 0.283	6.2 – 7.2	0.72	18.3	Heat Stabilized Nylon 6.6	Black			

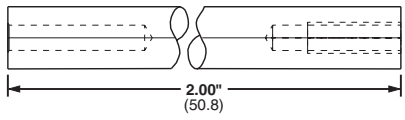
*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard.

Harness Board Standoff Posts and Adapter

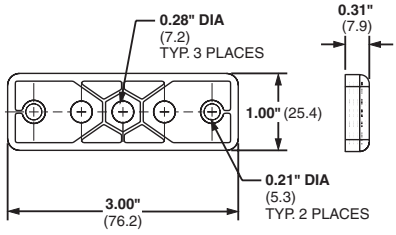
- Used to hold a push mount accessory or cable tie at a specific location on a harness board







HB2SP



HBUA

Part Number	Hole Diameter A		For Use With	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm					
Posts							
HB2SP19-X	0.20	5.2	PLWP, PRWP, WS, VWS, HWS, TPM	Aluminum	Bolt – Included	10	100
HB2SP25-X	0.30	7.5	PLWP, PRWP, PLP, THMS, HCMP, PMCC				
Adapter							
HBUA-X	—	—	HB2SP19-X, HB2SP25-X	Nylon 6.6	#10 (M5) Screw	10	100

Order number of pieces required, in multiples of Standard Package Quantity.

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Physical Properties and Colors of Cable Accessory Materials

Design Criteria	Nylon 6.6	Flame Retardant Nylon 6.6	Weather Resistant Nylon 6.6	Heat Stabalized Nylon 6.6	Heat Stabalized Weather Resistant Nylon 6.6	Impact Resistant Nylon 6.6
Part Number Suffix	None (Natural or White), 14 (Gray), 20 (Black), 15 (Ivory)	60, 69	0	30	300	None
Color	Natural, White, Gray, Black, Ivory	Black, Natural	Black	Black	Black	Black
Maximum Continuous Use Temperature	185F (85C)	212F (100C)	185F (85C)	239F (115C)	167F (75C)	185F (85C)
Minimum Continuous Use Temperature	-76F (-60C)	-76F (-60C)	-76F (-60C)	-76F (-60C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	V-2	V-0	V-2	V-2	V-2	HB
UV Resistance	Poor	Poor	Good	Fair	Good	Poor
Water Absorption	1.3% (24 hrs)	1.1% (24 hrs)	1.2% (24hrs)	1.2% (24hrs)	1.2% (24hrs)	1.0% (24 hrs)
Gamma Radiation Resistance	Good	1x10^5 Rads	Good	Good	Good	Good

Design Criteria	PVC	Acetal	Acetal Heat Stabalized	-39 Material for Contour Multiple Tie Plates	Metal Detectable Nylon	Metal Detectable Polypropylene
Part Number Suffix	None, 8, 810	None	130, 139	39	86	186
Color	Gray, White	Black	Natural	Natural	Light Blue	Dark Blue
Maximum Continuous Use Temperature	122F (50C)	194F (90C)	194F (90C)	239F (115C)	149F (65C)	149F (65C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-76F (-60C)	-40F (-40C)	-40F (-40C)
UL Flammability - UL94	V-0	HB	HB	V-2	N/A	N/A
UV Resistance	Poor	Good	Good	Poor		
Water Absorption	0.3% (24 hrs)	0.43% (24 hrs)	0.65% (24 hrs)	1.2% (24 hrs)		
Gamma Radiation Resistance	N/A	Poor	Poor	Good		

Continued on next page

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Physical Properties and Colors of Cable Accessory Materials (continued)

Design Criteria	Glass Filled Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Glass Filled Flame Retardant Nylon 6.6	ABS	Weather Resistant ABS
Part Number Suffix	None	0	60,69	None, 15 (Ivory)	0
Color	Black	Black	Black, Natural	White, Natural, Ivory	Black
Maximum Continuous Use Temperature	167F (75C)	185F (85C)	230F (110C)	158F (70C)	158F (70C)
Minimum Continuous Use Temperature	-40F (-40C)	-40F (-40C)	-40F (-40C)	-76F (-60C)	-76F (-60C)
UL Flammability - UL94	HB	HB	V-0	HB	HB
UV Resistance	Poor	Poor	Poor	Poor	Fair
Water Absorption	1.2% (24hrs)	1.2% (24hrs)	0.7% (24 hrs)	0.3% (24 hrs)	0.3% (24 hrs)
Gamma Radiation Resistance	Good	N/A	N/A	Good	Good

Design Criteria	PEEK	Polypropylene	Weather Resistant Polypropylene	Flame Retardant Polypropylene	Tefzel	NORYL
Part Number Suffix	71	None / 14 / 109	100	None	76	10
Color	Natural	White, Gray, Green	Black	Black	Aqua	White
Maximum Continuous Use Temperature	266F (130C)	230F (110C)	230F (110C)	257F (125C)	338F (170C)	176F (80C)
Minimum Continuous Use Temperature	-40F (-40C)	-76F (-60C)	-76F (-60C)	-40F (-40C)	-76F (-60C)	-40F (-40C)
UL Flammability - UL94	N/A	HB	HB	V-0	N/A	V-1
UV Resistance	Fair	Poor	Good	Good	Excellent	Good
Water Absorption	0.1% (24hrs)	0.1% (24 hrs)	0.1% (24 hrs)	0.15% (24 hrs)	<0.01% (24 HRS)	0.7% (24 hrs)
Gamma Radiation Resistance	Good	1x10^5 Rads	1x10^5 Rads	N/A	Good	N/A

Application Chart

Since Panduit manufactures adhesive backed mounts with a variety of adhesive types, this chart should be used as a guideline for choosing the best adhesive for often-encountered conditions. Each type of adhesive is rated good, fair or poor for some specific mounting surfaces and/or chemical environments.

Surfaces	Rubber Based Foam Tape Mounts	Acrylic Based Foam Tape Mounts	Epoxy Applied Adhesive Mounts
Plastics	Good	Good	Good
Wood			
Glass	Fair	Good	Good
Painted Surfaces	Good	Good	Fair
Powder Coating	Good	Fair	Good
Metal	Good[1]	Good[1]	Good
Paper	Good	Good	Fair
Concrete, Stone, Masonry	Not Recommended	Not Recommended	Good
Chemical Resistance			
Water	Good	Good	Poor
Oil	Poor	Fair[3]	Good
Gasoline	Poor	Fair[3]	Fair
Dilute Acids			
Dilute Alkalis	Good	Fair[3]	Fair
Organic Solvents	Poor	Fair[3]	Not Recommended
Outdoor Exposure	Not Recommended	Good	Good[2]

1. Not recommended for use on copper or brass.
2. Mounts manufactured from outdoor material only. For specific applications, individual testing prior to extensive use is suggested.
3. Depends on concentration, exposure time, and chemical composition.

Mount Spacing

To determine the number of mounts to use in a given application, the following formula can be used as a guideline:

$$\frac{\text{Cable or weight (Lbs./ft.)}}{\text{Static Load rating of Mount (Lbs./mt.)}} = \text{Spacing} \frac{\text{Mounts}}{\text{Ft.}}$$

Order number of pieces required, in multiples of Standard Package Quantity.

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Selection and Use of Adhesive Mounts



Panduit® adhesive mounts provide a quick, economical, and dependable method of supporting, routing, and protecting wires or cables. Some are used with Panduit cable ties and others can be used without cable ties. Adhesive backed mounts adhere to a variety of surfaces. This alternative to mechanical fasteners offers the advantage of lower installed cost with safe, easy to use, quality products.

Applications



- To route wires in control panels and switchboards
- To support bundles of wires away from moving mechanical devices
- Routing and harnessing cables, both indoors and out, to prevent safety hazards
- To organize flat cables in many locations with low profile construction
- Ideal for supporting wire bundles where holes cannot be made in the substrate
- To separate groups of wires for identification

General Mount Guidelines

Panduit pressure sensitive adhesive (foam tape) mounts are intended to secure wire bundles or other light objects to smooth surfaces. These mounts are not designed to support excessive loads and should not be used when the maximum expected load exceeds the rated capacity of the mount.

Choosing the Right Adhesive

Panduit offers two standard pressure sensitive foam tapes which are available on most adhesive backed wiring accessories products. The general purpose tape is produced with a rubber based adhesive and is identified by an “-A” in the part number. This tape develops its strength extremely fast and can be used in environments with temperatures ranging from -20°F (-29°C) to 120°F (49°C). It is recommended that rubber based adhesive mounts dwell 2 hours after installation, prior to loading. The rubber based tape is rated for a static load of 1/2 pound per square inch. Rubber based adhesive tape is the best choice for most adhesive mount applications, including powder coated surfaces.

Acrylic based adhesive tape is also available and is identified by an “-AT” in the part number. This tape is for use in environments where continuous exposure to temperatures ranging from -20°F (-29°C) to 180°F (82°C) is possible. Acrylic based adhesive develops its maximum strength over a longer period of time than rubber based adhesive. It is recommended that acrylic adhesive mounts dwell 8 hours after installation, prior to loading. The standard acrylic based tape is also rated for a static load of 1/2 pound per square inch. Acrylic based adhesive tape is a good choice for environments with exposure to UV rays or temperatures above 120°F (49°C).

Panduit adhesive backed cable accessories are also available pre-installed with high bond acrylic based adhesive and is identified with a "-AV" in the part number. This adhesive can be used in applications with continuous use temperatures ranging from -31°F (-35°C) to 200°F (93°C), though higher temperatures may be possible for short-term exposure. Like the standard acrylic adhesive, it is still recommended that the high bond acrylic adhesive mounts also dwell for 8 hours after installation, prior to loading. The high bond acrylic based adhesive is rated for a higher static load of one pound per square inch. High Bond cable accessories are recommended for use in demanding applications such as where high temperatures are required, or where fatigue loading is expected.

Panduit also offers a 2-part epoxy for use in applications where excessive loading is required, or where the surface to which the mount must be applied is porous rather than smooth. Panduit EMA adhesive is a 2-part epoxy cement which is packaged in convenient mixer cups containing an equal amount of resin and hardener. Peel the protective covering off and pop the center of the cup in to form a mixing bowl. Each cup is supplied with a mixer stick and contains enough epoxy to properly apply three EMS mounts. The resin and hardener should be thoroughly mixed together until the epoxy is a consistent and uniform color. The mixer stick can then be used to apply the adhesive to the mount. The epoxy should be forced into the grooves on the bottom of the mount to obtain optimum bond performance. The mount should be applied to the surface with light pressure and a back-and-forth twisting motion. Hardening of the epoxy begins five minutes after mixing at room temperature.

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Selection and Use of Adhesive Mounts (continued)

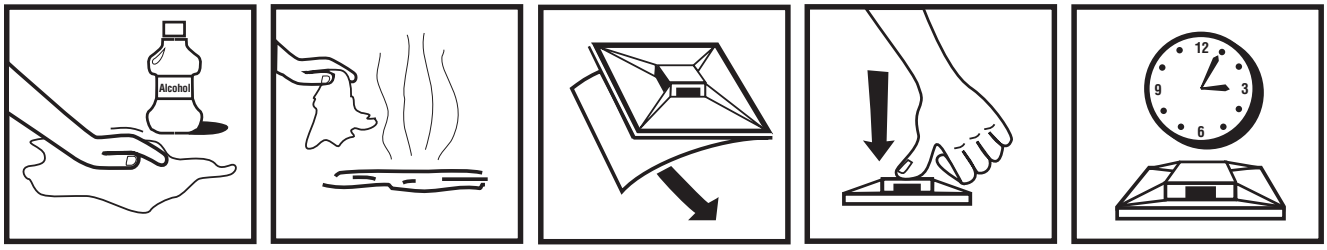
Surface Preparation

For best results, Panduit® adhesive mounts should be applied to clean, dry, grease-free surfaces. We recommend that the surface be cleaned prior to mount installation. For rubber and acrylic based foam tape adhesives, a blend of isopropyl alcohol and water 50/50 may be used to clean most surfaces.

For epoxy type adhesives, especially masonry surfaces, be sure to clean all loose particles away before mount installation. Some surface abrasion is recommended to achieve maximum strength. A light rubbing with medium grit emery cloth or sandpaper is best. Wash after abrading.

Proper Installation Techniques For Pressure Sensitive Adhesive Mounts

For proper installation of adhesive mounts with foam tape, simply remove the release liner and place the mount in the desired location. Avoid touching the adhesive prior to positioning the mount. Apply firm pressure (minimum of 10 pounds) to the mount for 5 seconds to insure proper adhesion.



1) Clean surface with a clean cloth and isopropyl alcohol.
2) Allow surface to air dry.
3) Remove the release liner, being careful not to touch the adhesive.
4) Apply 10 pounds of thumb pressure for at least 5 seconds.
5) Allow mount to properly dwell.

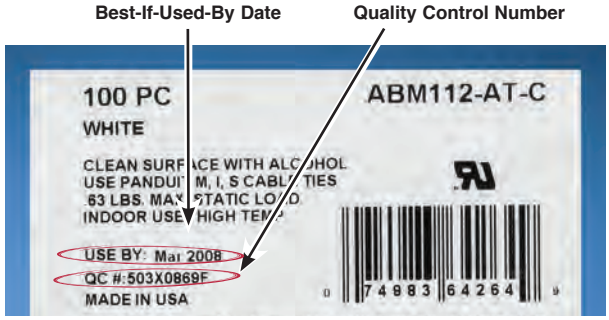
Proper Storage Conditions

All Panduit adhesive products have an expiration date printed on the package label. Use the following storage guidelines:

1. For rubber and acrylic based foam tape adhesives, store in temperatures of 70°F (21°C) and 45% Relative Humidity (R.H.).
2. For epoxy type adhesives, store in temperatures of 40°F (4°C) to 75°F (25°C) and relative humidity not in excess of 45%. Storage in opened containers is not recommended. Using the guidelines above, the shelf life of foam tape is 3 years. Shelf life of epoxy is 1 year. Deviation from the recommended storage conditions may reduce the shelf life or adhesive strength. In any case, adhesive products should never be stored near heating vents or other heat sources, and storage in lower temperatures than those recommended may increase the shelf life.

Stock Rotation

Adhesive mount inventory should be rotated in order to insure the quality of the adhesive foam tape. Each package of Panduit adhesive backed mounts has a quality control number and a best-if-used-by date on the package label. The best-if-used-by date provides the customer with an accurate way to control the rotation of inventory, and, as is the case with all Panduit products, the quality control number provides complete traceability for all components that go into a specific production run of product.



Mount Removal

There is no simple or easy method for removing Panduit adhesives. A thin wire or razor blade can be moved in between the surfaces when removing foam tape mounts; however, the adhesive residue will remain on the surface. Epoxy adhesives may be removed with a commercial paint stripping solution.

Order number of pieces required, in multiples of Standard Package Quantity.

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Stainless Steel Cable Ties and Accessories

The Pan-Steel® System provides a strong, durable method of bundling and mechanical fastening for all indoor, outdoor, and underground (including direct burial) applications. The ties are designed for use in critical applications where strength, vibration, radiation, weathering, corrosion, and temperature extremes are a factor.

- **Patented locking head design assures locking in any position, with a high rated loop tensile strength for a durable solution that delivers an extra margin of safety**
- **201, 304, or 316 grade stainless steel provides a strong, long-lasting method of bundling and mechanical fastening in harsh environments**
- **Accessories available to protect, speed, and simplify the mounting of wires, cable, and tubing with Panduit® Pan-Steel® Stainless Steel Cable Ties**
- **Complete line of manual and powered installation tools available with controlled tension and automatic cut-off for lower installed cost**
- **Large selection of stainless steel cable ties to deliver maximum design flexibility to match specific application requirements**

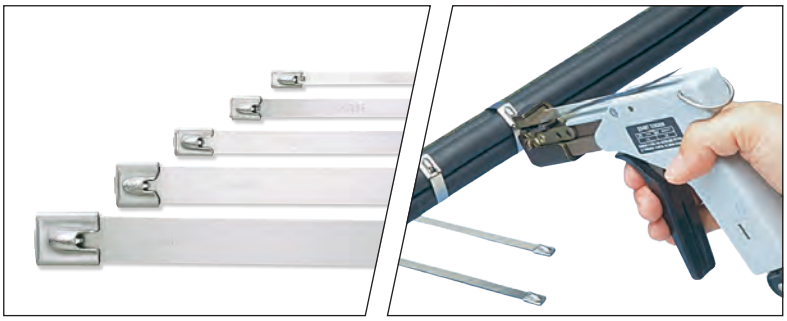
Panduit continues to develop stainless steel solutions for harsh environment applications by solving customer problems with innovative products and reliable tooling to achieve lowest installed cost.

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Pan-Steel® Products Overview

Pan-Steel® Cable Ties

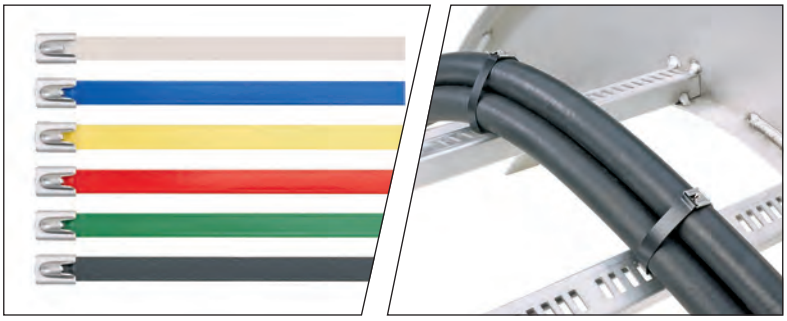
Pages B3.4 – B3.6, B3.10 – B3.11, B3.13



- Designed for use in indoor, outdoor, and underground applications
- Self-locking head design speeds installation
- Strong, durable method of cable bundling
- Rounded edges assure cable protection and worker safety

Pan-Steel® Coated Cable Ties

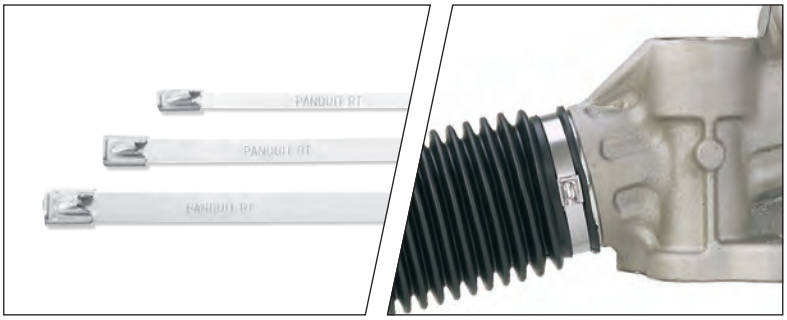
Pages B3.10 – B3.11



- Designed for use in indoor, outdoor, and underground applications
- Self-locking head design speeds installation
- Provides additional edge protection
- Prevents corrosion between dissimilar metals

Pan-Steel® Retained Tension Ties

Pages B3.16 – B3.18



- Designed for use in Industrial, OEM, and Transportation Markets
- Provides tight bundling of armored cables, pipes, conduit, and rigid materials
- Locks into place at any length along the tie body
- 360° seal design option eliminates gaps for a completely sealed installation

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Steel® Products Overview (continued)

Pan-Steel® Strapping

Pages B3.19 – B3.23

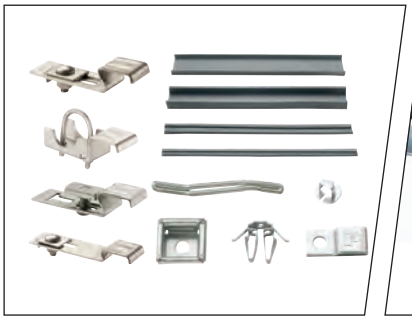


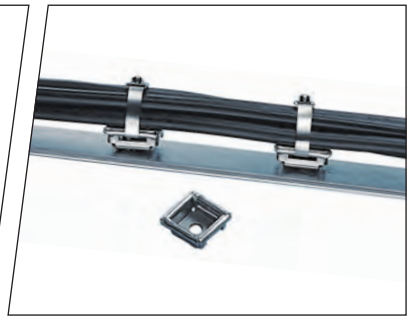


- Fold over design provides high retained tension
- Cut end is locked inside low profile buckle – no sharp edges
- Coil-in-box packaging option for job site versatility with minimum inventory
- Coated design option for additional edge protection

Accessories

Pages B3.24 – B3.27

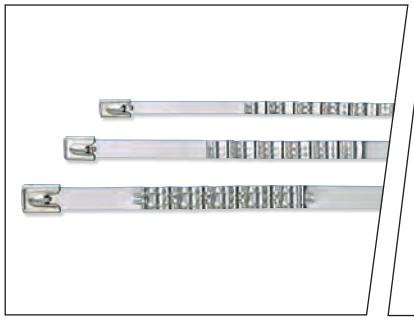


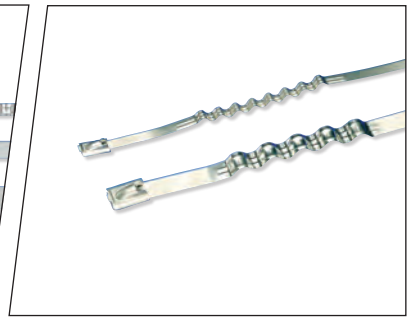


- Cushion sleeving provides full separation between ties and bundles
- Multiple mount options for range of applications and panel thicknesses
- Mounts secure ties to structure quickly and easily
- Metal brackets allow stainless steel ties and straps to be installed on any style cable tray

Pan-Steel® Wave-Ty™

Pages B3.7

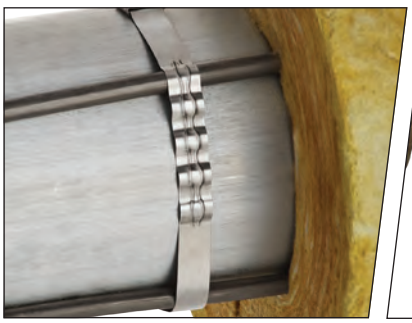




- Patented wave-form spring maintains greater installed tension on non-resilient objects
- Tightly clamps on applications where other stainless steel ties will not function
- Retains tension on a solid bundle with minimal applied force
- Available in 316 material for the most corrosive environments
- Guarantees performance in critical applications
- Self-locking with low thread force

Heat Trace Wave-Ty™

Pages B3.8 – B3.9





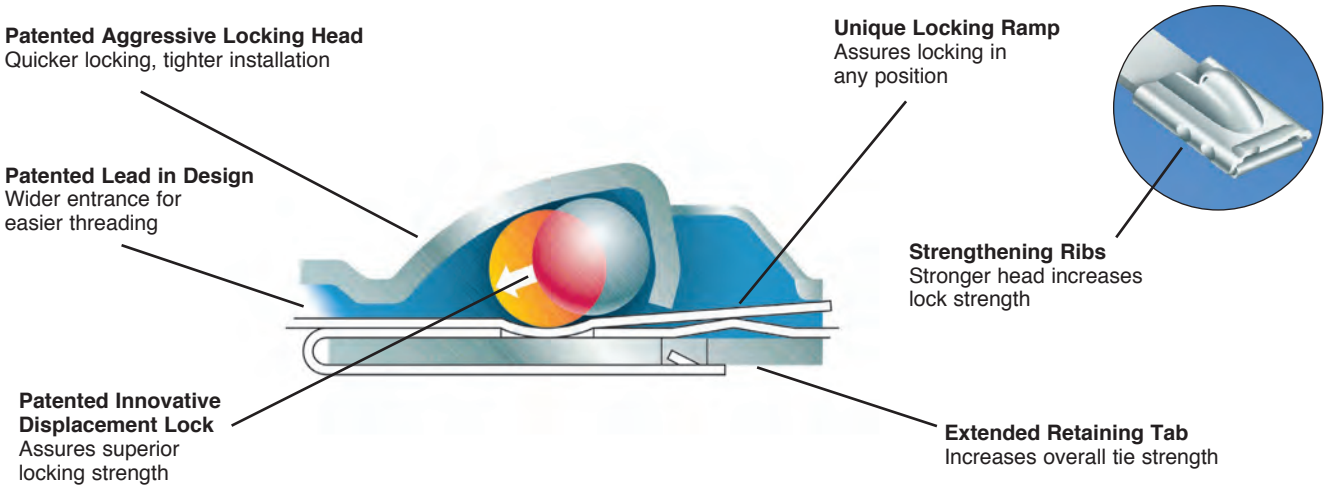
- Patented Wave-Ty™ wave-form spring maintains greater installed tension on non-resilient objects
- Heat trace Wave-Ty™ cable tie is a safe, efficient, and reliable method to install heat trace - commonly used for temperature maintenance, viscosity control, or freeze protection

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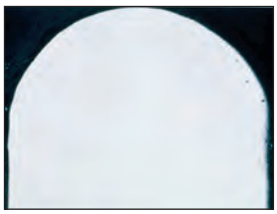
Features and Benefits – Pan-Steel® Cable Ties

Panduit® Pan-Steel® Stainless Steel Ties are engineered for safety, productivity, and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength, and tight clamping.

Self-Locking Head Construction



Fully Rounded Edges



Panduit tie body



Other manufacturer's tie body

The Pan-Steel® Stainless Steel Cable Tie features fully rounded edges to assure bundle protection and operator safety. Panduit not only removes the burr, but actually passes the material through a secondary process which removes the top and bottom corners of the material.

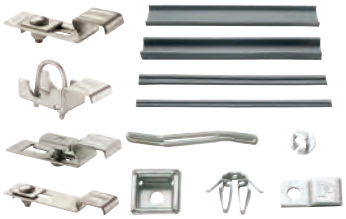
Self-Locking for Fast Installation



Self-locking design can be fastened by hand requiring no fold over or additional installation steps.



Pan-Steel® Installation Tools for adjustable tension control and automatic cut-off for quick, consistent, and secure installation.



Pan-Steel® System Accessories are used with Pan-Steel® Stainless Steel Cable Ties to speed and simplify the mounting of wires, cables, and tubing. Installation methods include brackets, screw mounts, and push mounts. See pages B3.24 – B3.27.

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Pan-Steel® Cable Ties

MLT	6	S	–	CP	
Type	Bundle Reference Diameter (In.)	Cross Section		Standard Package Size	Material
MLT = Metal Locking Tie		S = Standard LH = Light-Heavy H = Heavy EH = Extra-Heavy EH15 = Extra-Heavy-15 SH = Super-Heavy		Q = 25 L = 50 LP = 50 CP = 100	(blank) = 304 316 = 316

Pan-Steel® Self-Locking Cable Ties – MLT Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Provides a strong, durable method of cable bundling
- Can be used in a wide range of indoor, outdoor, and underground (including direct burial) applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* In.	Length* mm	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Thickness In.	Thickness mm	Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
AISI 304 Stainless Steel — For General Purpose															
Standard Cross Section															
MLT1S-CP	1.0	25	5.0	127	200	890	0.50	12.7	0.18	4.6	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	100	500
MLT2S-CP	2.0	51	7.9	201	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	
MLT2S-L	2.0	51	7.9	201	200	890	0.50	12.7	0.18	4.6	0.010	0.25		50	
MLT2.7S-CP	2.7	69	10.2	259	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	
MLT4S-CP	4.0	102	14.3	362	200	890	0.50	12.7	0.18	4.6	0.010	0.25		100	
MLT4S-L	4.0	102	14.3	362	200	890	0.50	12.7	0.18	4.6	0.010	0.25		50	
MLT6S-CP	6.0	152	20.5	521	200	890	0.50	12.7	0.18	4.6	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	100	500
MLT8S-CP	8.0	203	26.8	679	200	890	0.50	12.7	0.18	4.6	0.010	0.25			
MLT10S-CP	10.0	254	33.0	838	200	890	0.50	12.7	0.18	4.6	0.010	0.25			
MLT12S-Q	12.0	304	39.3	998	200	890	0.50	12.7	0.18	4.6	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	25	125
MLT14S-Q	14.0	355	45.5	1156	200	890	0.50	12.7	0.18	4.6	0.010	0.25			
MLT15S-Q	15.0	380	49.2	1250	200	890	0.50	12.7	0.18	4.6	0.010	0.25			

*For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.

Continued on next page

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Pan-Steel® Self-Locking Cable Ties – MLT Series (continued)

Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* In.	Length* mm	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Thickness In.	Thickness mm	Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
Light-Heavy Cross Section															
MLT2LH-LP	2.0	51	7.9	201	250	1112	0.50	12.7	0.25	6.4	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	50	250
MLT4LH-LP	4.0	102	14.3	362	250	1112	0.50	12.7	0.25	6.4	0.010	0.25			
MLT6LH-LP	6.0	152	20.5	521	250	1112	0.50	12.7	0.25	6.4	0.010	0.25			
MLT8LH-LP	8.0	203	26.8	679	250	1112	0.50	12.7	0.25	6.4	0.010	0.25			
Heavy Cross Section															
MLT2H-LP	2.0	51	7.9	201	450	2000	0.50	12.7	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	50	250
MLT4H-LP	4.0	102	14.3	362	450	2000	0.50	12.7	0.31	7.9	0.010	0.25			
MLT6H-LP	6.0	152	20.5	521	450	2000	0.50	12.7	0.31	7.9	0.010	0.25			
MLT8H-LP	8.0	203	26.8	679	450	2000	0.50	12.7	0.31	7.9	0.010	0.25			
MLT10H-LP	10.0	254	33.0	838	450	2000	0.50	12.7	0.31	7.9	0.010	0.25			
MLT14H-Q	14.0	355	45.5	1156	450	2000	0.50	12.7	0.31	7.9	0.010	0.25		25	125
Extra-Heavy Cross Section															
MLT4EH-LP	4.0	102	17.1	434	600	2670	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	50	250
MLT6EH-LP	6.0	152	23.4	594	600	2670	1.00	25.4	0.50	12.7	0.010	0.25			
MLT8EH-LP	8.0	203	29.7	754	600	2670	1.00	25.4	0.50	12.7	0.010	0.25			
MLT10EH-LP	10.0	254	35.9	912	600	2670	1.00	25.4	0.50	12.7	0.010	0.25			
MLT12EH-Q	12.0	305	42.2	1072	600	2670	1.00	25.4	0.50	12.7	0.010	0.25		25	125
Super-Heavy Cross Section															
MLT4SH-LP	4.0	102	17.1	434	900	4005	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	50	250
MLT6SH-LP	6.0	152	23.4	594	900	4005	1.00	25.4	0.63	15.9	0.015	0.38			
MLT8SH-LP	8.0	203	29.7	754	900	4005	1.00	25.4	0.63	15.9	0.015	0.38			
MLT10SH-LP	10.0	254	35.9	912	900	4005	1.00	25.4	0.63	15.9	0.015	0.38			
MLT12SH-Q	12.0	305	42.2	1072	900	4005	1.00	25.4	0.63	15.9	0.015	0.38		25	125

**For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Pan-Steel® Wave-Ty™

- Patented wave-form spring maintains greater installed tension on non-resilient objects
- Tightly clamps on applications where other stainless steel ties will not function
- Retains tension on a solid bundle with minimal applied force
- Also available in 316 material for the most corrosive environments
- Guarantees performance in critical applications
- Self-locking with low thread force



Part Number	Max. Bundle Diameter		Length**		Min. Loop Tensile Strength*		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			
AISI 304 Stainless Steel – For Superior Grip on Rigid Bundles															
Standard Cross Section															
MLT2.7WS-LP	2.7	69	10.2	259	200	890	2.0	51	0.18	4.6	0.010	0.25	GS4MT-E, HTMT, PPTMT, or ST2MT	50	250
MLT4WS-LP	4.0	102	14.3	362	200	890	2.0	51	0.18	4.6	0.010	0.25			
MLT6WS-LP	6.0	152	20.5	521	200	890	2.0	51	0.18	4.6	0.010	0.25			
MLT8WS-LP	8.0	203	26.8	679	200	890	2.0	51	0.18	4.6	0.010	0.25			
Light-Heavy Cross Section															
MLT2.7WLH-LP	2.7	69	10.2	259	250	1112	2.0	51	0.25	6.4	0.010	0.25	GS4MT-E, HTMT, PPTMT, or ST2MT	50	250
MLT4WLH-LP	4.0	102	14.3	362	250	1112	2.0	51	0.25	6.4	0.010	0.25			
MLT6WLH-LP	6.0	152	20.5	521	250	1112	2.0	51	0.25	6.4	0.010	0.25			
MLT8WLH-LP	8.0	203	26.8	679	250	1112	2.0	51	0.25	6.4	0.010	0.25			
Heavy Cross Section															
MLT2.7WH-LP	2.7	69	10.2	259	450	2000	2.0	51	0.31	7.9	0.010	0.25	GS4MT-E, HTMT, PPTMT, or ST2MT	50	250
MLT4WH-LP	4.0	102	14.3	362	450	2000	2.0	51	0.31	7.9	0.010	0.25			
MLT6WH-LP	6.0	152	20.5	521	450	2000	2.0	51	0.31	7.9	0.010	0.25			
MLT8WH-LP	8.0	203	26.8	679	450	2000	2.0	51	0.31	7.9	0.010	0.25			
MLT10WH-LP	10.0	254	33.0	838	450	2000	2.0	51	0.31	7.9	0.010	0.25			

*Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
**For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
***For information on installation tools, refer to www.panduit.com/tools.

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Heat Trace Applications

- Electric Heat Trace is commonly used for temperature maintenance, viscosity control, and freeze protection
- Installing a Heat Trace Wave-Ty™ tie does not damage the mineral insulation and prevents damage to the electric heat trace during installation
- Installs 2-3 times faster than tie wire depending upon fixture
- Significantly lowers risk of health and safety concerns versus tie wire

Features and Benefits

Safety:	Significantly lower risk of health and safety concerns versus tie wire. Tie wire can result in puncture risk along with blood poisoning concerns due to residual coating. Tie wire installation can result in repetitive strain injuries and carpel tunnel syndrome.
Installation Speed:	Installs 2 – 3 times faster than tie wire depending upon fixture. Ball valve took 883 seconds to install using tie wire and only 271 seconds using a Heat Trace Wave-Ty™ for 225% savings (time).
Lower Installed Cost:	Can deliver approximately 30% lower overall installed cost versus tie wire depending upon pipe diameter. Approximately 50% of the overall cost for installation of heat trace can be attributed to labor.
Reliability:	Heat Trace Wave-Ty™ ties do not damage mineral insulated heat trace. Their wide, flat profile and spring design do not damage the heat trace.
Reduced Down Time:	Prevents damage to electric heat trace due installation. Over tensioning of tie wire can result in damage to electric heat trace ultimately leading to failures and an increase in downtime.

Information based upon results of Test Report SS-PLR-367 – Heat Trace Wire and Insulation Installation Time Study.

Application

Electric Heat Trace is commonly used for temperature maintenance, viscosity control, or freeze protection. This is typically done by using traced pipes with insulation and cladding. The traced pipes can be accomplished in several ways. For the purposes of this document, we will be focusing solely on mineral insulated electric heat trace.

Tie wire is commonly used within the industry to install mineral insulated electric heat trace. Heat trace installation using tie wire requires training and tensioning is dependent on installer skill and experience. Tooling used with tie wire consists of a pair of nippers or linesman's pliers. The installer twists and turns the tie wire in order pull the heat trace closer to the pipes. Too much tension can result in damage to the heat trace. The installation process requires a great deal of repetitive twisting and pulling to position the heat trace close to the pipes.

Heat trace tie wire is generally applied approximately every 12 inches on vertical and horizontal runs. In a time study, Panduit found the installers took approximately 1.6 minutes on average for vertical and horizontal runs. Elbows, ball valves, flanges, and T-valves just added to the complexity with average times ranging from 2.58 minutes to 14.72 minutes depending upon the fixture. Installation problems associated with tie wire tend to fall into two categories. The first are safety concerns ranging from puncture hazards (from cut tie wire), blood poisoning, pulling and twisting tie wire (RSI, CTS), and more. The other area is around damage to and system reliability of the heat trace. Tie wire if over tensioned can damage the heat trace.

Order number of pieces required, in multiples of Standard Package Quantity.

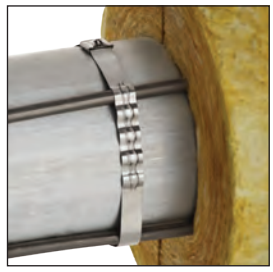
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Technical Information

Material:	**304 Grade Stainless Steel**
Minimum Loop Tensile Strength:	**600 lbs., 2670 Newtons**
Maximum Temperature Rating:	**538°C, 1000°F**
Minimum Temperature Rating:	**-60°C, -76°F**
RoHS:	**Compliant**
Flammability:	**Non Flammable**
Ultra-Violet Light Resistance:	**Excellent**

Heat Trace Wave-Ty™ Cable Ties





Heat Trace Applications

Ordering Information

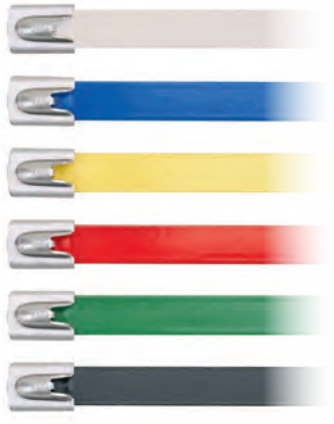
Part Number	Length In.	Width In.	Qty. (Units)	Tools
HTMLT2.7WEH-LP	10.2	0.5	50	ST4MT and RT2HT
HTMLT4WEH-LP	14.3			
HTMLT6WEH-LP	20.5			
HTMLT8WEH-LP	26.8			
HTMLT10WEH-LP	33.0			
HTMLT12WEH-Q	42.2	0.5	25	ST4MT and RT2HT
HTMLT16WEH-Q	54.8			
HTMLT26WEH-Q	86.2			
HTMLT38WEH-Q*	123.9			

*300 lb loop tensile strength.

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Pan-Steel® Polyester Fully Coated Cable Ties – MLTFC Series

- Polyester coating, available in six color options, provides a visual indicator for easy identification in color-coding applications (heavy cross section only)
- Self-locking head design speeds installation and locks into place at any length along the tie body
- Polyester coating provides additional edge protection and prevents corrosion between dissimilar metals
- AISI 316 stainless steel for the most corrosive environments
- Available in standard, heavy, extra-heavy, and super-heavy cross sections
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 302°F (150°C)



Part Number	Max. Bundle Diameter		Length*		Color	Min. Loop Tensile Strength**		Width		Thickness^		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm		Lbs.	N	In.	mm	In.	mm			
Standard Cross Section^^														
MLTFC2S-CP316	2.0	51	7.9	201	Black	100	445	0.18	4.6	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	100	500
MLTFC4S-CP316	4.0	102	14.3	362		100	445	0.18	4.6	0.010	0.25			
MLTFC6S-CP316	6.0	152	20.5	521		100	445	0.18	4.6	0.010	0.25			
MLTFC8S-CP316	8.0	203	26.8	679		100	445	0.18	4.6	0.010	0.25			
Heavy Cross Section^^														
MLTFC2H-LP316RD	2.0	51	7.9	201	Red	250	1112	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	50	250
MLTFC4H-LP316RD	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316RD	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
MLTFC2H-LP316YL	2.0	51	7.9	201	Yellow	250	1112	0.31	7.9	0.010	0.25			
MLTFC4H-LP316YL	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316YL	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
MLTFC2H-LP316GR	2.0	51	7.9	201	Green	250	1112	0.31	7.9	0.010	0.25			
MLTFC4H-LP316GR	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316GR	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
Heavy Cross Section^^														
MLTFC2H-LP316BU	2.0	51	7.9	201	Blue	250	1112	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	50	250
MLTFC4H-LP316BU	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316BU	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
MLTFC2H-LP316WH	2.0	51	7.9	201	White	250	1112	0.31	7.9	0.010	0.25			
MLTFC4H-LP316WH	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316WH	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
MLTFC2H-LP316	2.0	51	7.9	201	Black	250	1112	0.31	7.9	0.010	0.25			
MLTFC4H-LP316	4.0	102	14.3	362		250	1112	0.31	7.9	0.010	0.25			
MLTFC6H-LP316	6.0	152	20.5	521		250	1112	0.31	7.9	0.010	0.25			
MLTFC8H-LP316	8.0	203	26.8	679		250	1112	0.31	7.9	0.010	0.25			

*Other lengths available, contact Panduit Customer Service.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.
^Base material less coating. ^^Minimum bundle diameter is 0.50"(12.7mm).

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Steel® Polyester Fully Coated Cable Ties – MLTFC Series (continued)

Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* In.	Length* mm	Color	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Width In.	Width mm	Thickness^ In.	Thickness^ mm	Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
Extra-Heavy Cross Section^^^														
MLTFC4EH-LP316	4.0	102	17.1	434	Black	300	1335	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	50	250
MLTFC6EH-LP316	6.0	152	23.4	594		300	1335	0.50	12.7	0.010	0.25			
MLTFC8EH-LP316	8.0	203	29.7	754		300	1335	0.50	12.7	0.010	0.25			
Super-Heavy Cross Section^^^														
MLTFC4SH-LP316	4.0	102	17.1	434	Black	450	2000	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	50	250
MLTFC6SH-LP316	6.0	152	23.4	594		450	2000	0.63	15.9	0.015	0.38			
MLTFC8SH-LP316	8.0	203	29.7	754		450	2000	0.63	15.9	0.015	0.38			

*Other lengths available, contact Panduit Customer Service.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.
^Base material less coating. ^^Minimum bundle diameter is 0.50"(12.7mm). ^^^Minimum bundle diameter is 1.0"(25.4mm).

Pan-Steel® Nylon 11 Selectively Coated Cable Ties – MLTC Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Nylon 11 coating provides additional edge protection and prevents corrosion between dissimilar metals
- AISI 316 stainless steel for the most corrosive environments
- Available in heavy cross section
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)



Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* In.	Length* mm	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Thickness^ In.	Thickness^ mm	Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
AISI 316 Stainless Steel – For Nylon 11 Selectively Coated Cable Ties															
Heavy Cross Section															
MLTC2H-LP316	2.0	51	7.9	201	250	1112	0.50	12.7	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	50	250
MLTC4H-LP316	4.0	102	14.3	362	250	1112	0.50	12.7	0.31	7.9	0.010	0.25			
MLTC6H-LP316	6.0	152	20.5	521	250	1112	0.50	12.7	0.31	7.9	0.010	0.25			
MLTC8H-LP316	8.0	203	26.8	679	250	1112	0.50	12.7	0.31	7.9	0.010	0.25			
MLTC10H-LP316	10.0	254	33.0	838	250	1112	0.50	12.7	0.31	7.9	0.010	0.25			

*Other lengths available, contact Panduit Customer Service.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.
^Base material less coating.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Alum™ Aluminum Cable Ties – MLT Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Lightweight, aluminum construction for flexibility and ease of handling
- Smooth surfaces and rounded edges assures cable protection and worker safety
- For use with Pan-Alum™ Marker Plates on page E4.4, for fast installation at the lowest installed cost



Part Number	Max. Bundle Diameter		Length*		Color	Min. Loop Tensile Strength*		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool**	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm		Lbs.	N	In.	mm	In.	mm	In.	mm			
Heavy Cross Section^^																
MLT1H-LPAL	1.0	25	5.5	140	Aluminum	50	222	0.50	12.7	0.31	7.9	0.010	0.25	ST2MT, HTMT	50	250
MLT2H-LPAL	2.0	51	7.9	201		50	222	0.50	12.7	0.31	7.9	0.010	0.25			
MLT4H-LPAL	4.0	102	14.3	362		50	222	0.50	12.7	0.31	7.9	0.010	0.25			

*Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
**For information on installation tools, refer to www.panduit.com/tools.

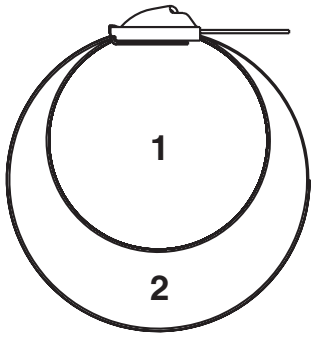
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Steel® Double Wrapped Cable Ties – MLTD Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Cable tie body passes through the head two times for additional strength
- Available in heavy, extra-heavy, and super-heavy cross sections
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for EH and SH cross sections
- Super-heavy double wrapped tested for short circuit applications up to 71.5 kA





Part Number	Max. Bundle Diameter		Length*		Min. Loop Tensile Strength**		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			
AISI 304 Stainless Steel — MLTD Double Wrapped Ties															
Heavy Cross Section															
MLT2DH-L	2.0	51	18.5	470	600	2670	1.00	25.4	0.31	7.9	0.010	0.25	GS4MT-E, HTMT, PPTMT, ST2MT	50	250
MLT4DH-L	4.0	102	28.0	711	600	2670	1.00	25.4	0.31	7.9	0.010	0.25		50	250
MLT6DH-Q	6.0	152	40.0	1016	600	2670	1.00	25.4	0.31	7.9	0.010	0.25		25	250
Extra-Heavy Cross Section															
MLT4DEH-Q	4.0	102	29.5	749	800	3560	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	25	125
MLT6DEH-Q	6.0	152	41.5	1054	800	3560	1.00	25.4	0.50	12.7	0.010	0.25			
MLT8DEH-Q	8.0	203	53.5	1359	800	3560	1.00	25.4	0.50	12.7	0.010	0.25			
Super-Heavy Cross Section															
MLT6DSH-Q	6.0	152	41.5	1054	1200	5340	1.00	25.4	0.62	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	25	125
MLT8DSH-Q	8.0	203	53.5	1359	1200	5340	1.00	25.4	0.62	15.9	0.015	0.38			
AISI 316 Stainless Steel — For MLTD Double Wrapped Ties															
Extra-Heavy Cross Section															
MLT6DEH-Q316	6.0	152	41.5	1054	800	3560	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	25	125
MLT8DEH-Q316	8.0	203	53.5	1359	800	3560	1.00	25.4	0.50	12.7	0.010	0.25			
Super-Heavy Cross Section															
MLT6DSH-Q316	6.0	152	41.5	1054	1200	5340	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	25	125
MLT8DSH-Q316	8.0	203	53.5	1359	1200	5340	1.00	25.4	0.63	15.9	0.015	0.38			

**For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.

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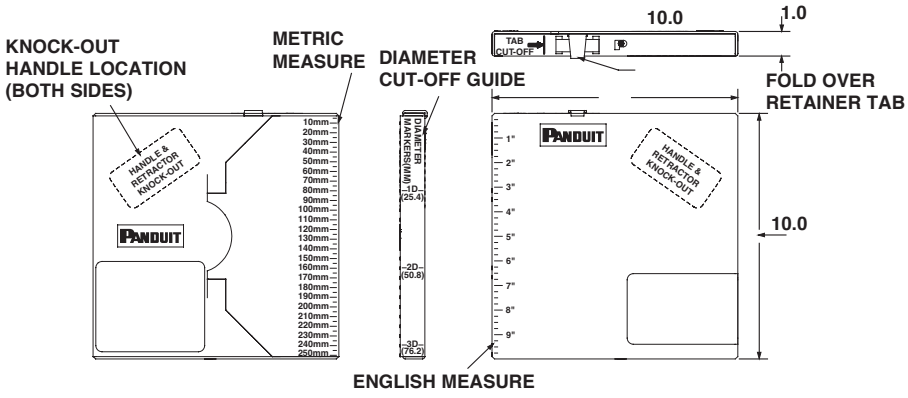
Pan-Steel® Custom Length Banding MBS, MBH, MBEH, and MBSH Series

- For applications that require various bundle diameters
- Supplied in reels of 82.5 feet (25m), 200 feet (61m), 250 feet (76m), or 1000 feet (305m)
- Provides job site versatility with minimum inventory
- Packaging speeds removal of steel and includes bundle diameter cut-off guide

Polyester coating (optional):

- Polyester coating provides additional edge protection and prevents corrosion between dissimilar metals
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 302°F (150°C)
- AISI 316 stainless steel for the most corrosive environments





Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* Ft.	Length* m	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Thickness In.	Thickness mm	Recommended Installation Tool***	Recommended Banding Head	Std. Pkg. Qty.‡
AISI 304 Stainless Steel — For General Purpose Banding															
Standard Cross Section															
MBS-TLR	Any	Any	250	76	100	445	0.50	12.7	0.18	4.4	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT	MTHS-C	1
MBS-MR	Any	Any	1000	305	100	445	0.50	12.7	0.18	4.4	0.010	0.25			
Heavy Cross Section															
MBH-TLR	Any	Any	250	76	250	1112	0.50	12.7	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	MTHH-C	1
MBH-MR	Any	Any	1000	305	250	1112	0.50	12.7	0.31	7.9	0.010	0.25			
Extra-Heavy Cross Section															
MBEH-TLR	Any	Any	250	76	300	1335	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	MTHEH-C	1
Super-Heavy Cross Section															
MBSH-TR	Any	Any	200	61	450	2000	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	MTHSH-C	1

*For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.
‡Order in number of reels required.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Steel® Custom Length Banding – MBCH, MBCEH, and MBCSH Series

Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length* Ft.	Length* m	Min. Loop Tensile Strength** Lbs.	Min. Loop Tensile Strength** N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Thickness^ In.	Thickness^ mm	Recommended Installation Tool***	Recommended Banding Head	Std. Pkg. Qty.‡
Polyester Coated AISI 316 Stainless Steel															
Heavy Cross Section															
MBCH-QR316	Any	Any	82	25	250	1112	0.50	12.7	0.31	7.9	0.010	0.25	GS4MT-E, ST2MT, HTMT, PPTMT, PBTMT	MTHCH-C316	1
Extra-Heavy Cross Section															
MBCEH-QR316	Any	Any	82	25	300	1335	1.00	25.4	0.50	12.7	0.010	0.25	ST2MT, RT2HT, RT2HTN, PBTMT	MTHCEH-C316	1
Super-Heavy Cross Section															
MBCSH-QR316	Any	Any	82	25	450	2000	1.00	25.4	0.63	15.9	0.015	0.38	RT2HT, RT2HTN, PBTMT	MTHCSH-C316	1

*Other lengths available, contact Panduit Customer Service.
**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.30.
***For information on installation tools, refer to www.panduit.com/tools.
^Base material less coating
‡Order in number of reels required.

To determine the proper amount of banding required, use the following formula:

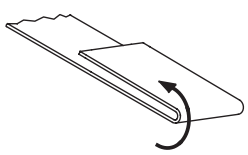
Calculate S and H Cross Section	**Diameter inches (mm) x 3.14 + 3 inches (76mm)**
Calculate EH and SH Cross Section	**Diameter inches (mm) x 3.14 + 4.5 inches (114mm)**

Pan-Steel® Custom Length Banding Heads – MTH Series

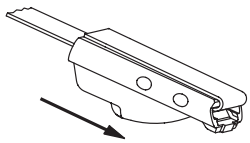
- Self-locking head design speeds installation and locks into place at any length along the tie body



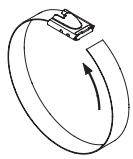
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AISI 304 Stainless Steel			
MTHS-C	Loose piece banding head for standard cross section banding.	100	1000
MTHH-C	Loose piece banding head for heavy cross section banding.		
MTHEH-C	Loose piece banding head for extra-heavy cross section banding.		
MTHSH-C	Loose piece banding head for super-heavy cross section banding.		
AISI 316 Stainless Steel			
MTHS-C316	Loose piece banding head for standard cross section banding.	100	1000
MTHH-C316	Loose piece banding head for heavy cross section banding.		
MTHEH-C316	Loose piece banding head for extra-heavy cross section banding.		
MTHSH-C316	Loose piece banding head for super-heavy cross section banding.		
AISI 316 Coated Stainless Steel			
MTHCH-C316	Loose piece coated banding head for heavy cross section banding.	100	1000
MTHCEH-C316	Loose piece coated banding head for extra-heavy cross section banding.		
MTHCSH-C316	Loose piece coated banding head for super-heavy cross section banding.		



1) Take one end of the cut banding and bend back 1" (25.4mm).



2) Take a self-locking head and slide it the entire length of the band until it reaches the bend.



3) Bend tail flat against bottom of banding head to complete assembly.

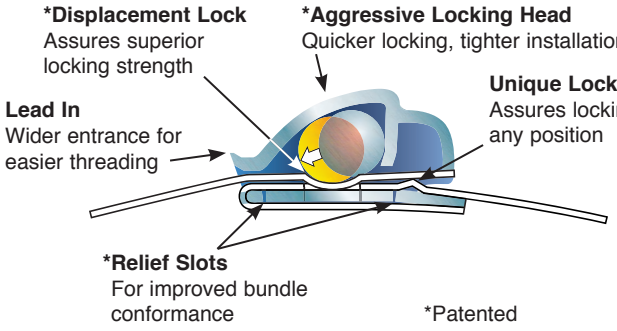
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Pan-Steel® Retained Tension Ties – MRT/MRS Series

Panduit® Pan-Steel® Retained Tension Ties are engineered for safety, productivity, and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength, and tight clamping.

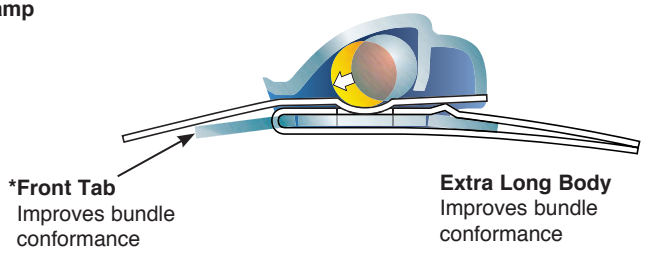
Panduit Retained Tension Tie Technology

Features of Retained Tension Ties (MRT and MRS Series)

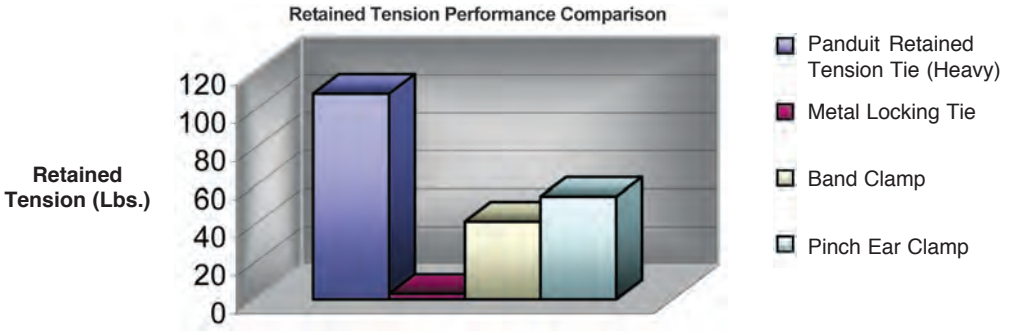


*Patented

Additional Features of 360° Radial Seal Retained Tension Ties (MRS Series Only)

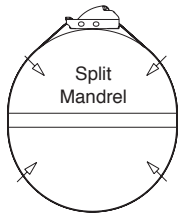


Retained Tension Performance Comparison**



**Representative sample, actual results may vary.

MRT Tie



Retained Tension

Split mandrel test fixture measures retained tension of installed tie

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number System for Pan-Steel® Retained Tension Ties – MRT Series

MRT	6	S	C	4
Type	Bundle Diameter Reference (In.)	Cross Section	Package Qty.	Material
MRT = Metal Retained Tension Tie MRS = Metal Retained Tension 360° Radial Seal Tie		S = Standard LH = Light-Heavy H = Heavy	L = 50 C = 100	4 = 304

Pan-Steel® Retained Tension Ties – MRT Series

- Provide tight bundling of armored cables, pipes, conduit, and other rigid materials in harsh conditions for a reliable, easy to install fastening solution
- Self-locking cable tie design locks into place at any length along the tie body, unlike fixed diameter band clamps
- Available in AISI 304 stainless steel with a thickness of 0.010" (0.25mm)



Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length Ft.	Length m	Min. Loop Tensile Strength Lbs.	Min. Loop Tensile Strength N	Min. Bundle Diameter In.	Min. Bundle Diameter mm	Width In.	Width mm	Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
AISI 304 Stainless Steel — For General Purpose													
Standard Cross Section													
MRT1S-C4	1.0	25	9.0	229	180	800	0.75	19.1	0.18	4.4	MTRTLS	100	500
MRT2S-C4	2.0	51	12.2	310	180	800	0.75	19.1	0.18	4.4			
MRT4S-C4	4.0	102	18.5	470	180	800	0.75	19.1	0.18	4.4			
MRT6S-C4	6.0	152	24.8	630	180	800	0.75	19.1	0.18	4.4			
Light-Heavy Cross Section													
MRT1.5LH-L4	1.5	38	10.6	269	225	1000	1.00	25.4	0.25	6.4	MTRTLS	50	250
MRT2LH-L4	2.0	51	12.2	310	225	1000	1.00	25.4	0.25	6.4			
MRT4LH-L4	4.0	102	18.5	470	225	1000	1.00	25.4	0.25	6.4			
MRT6LH-L4	6.0	152	24.8	630	225	1000	1.00	25.4	0.25	6.4			
Heavy Cross Section													
MRT1.5H-L4	1.5	38	10.6	269	400	1780	1.00	25.4	0.31	7.9	MTRTH	50	250
MRT2H-L4	2.0	51	12.2	310	400	1780	1.00	25.4	0.31	7.9			
MRT4H-L4	4.0	102	18.5	470	400	1780	1.00	25.4	0.31	7.9			
MRT6H-L4	6.0	152	24.8	630	400	1780	1.00	25.4	0.31	7.9			
Double Wrapped — For Additional Strength													
Standard Cross Section													
MRT1.5DS-C4	1.5	38	14.4	366	250	1112	1.00	25.4	0.17	4.4	MTRTLS	100	500
MRT2.5DS-C4	2.5	63	20.7	526	250	1112	1.00	25.4	0.17	4.4			
Light-Heavy Cross Section													
MRT2.5DLH-L4	2.5	63	20.7	526	350	1556	1.00	25.4	0.25	6.4	MTRTLS	50	250
Heavy Cross Section													
MRT2DH-L4	2.0	51	18.5	470	550	2447	1.00	25.4	0.31	7.9	MTRTH	50	250
MRT4DH-L4	4.0	102	31.1	790	550	2447	1.00	25.4	0.31	7.9			

***For information on installation tools, refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Steel® 360° Radial Seal Retained Tension Ties – MRS Series

- 360° radial seal eliminates gaps under the head of the tie to provide a completely sealed installation
- Self-locking cable tie design locks into place at any length along the tie body, unlike fixed diameter band clamps
- Available in AISI 304 stainless steel with a thickness of 0.010" (0.25mm)



Part Number	Max. Bundle Diameter		Length		Min. Loop Tensile Strength		Min. Bundle Diameter		Width		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	Ft.	m	Lbs.	N	In.	mm	In.	mm			
AISI 304 Stainless Steel — For General Purpose													
Standard Cross Section													
MRS1S-C4	1.0	25	9.0	229	180	800	0.75	19.1	0.18	4.4	MTRTLS	100	500
MRS2S-C4	2.0	51	12.2	310	180	800	0.75	19.1	0.18	4.4			
MRS4S-C4	4.0	102	18.5	470	180	800	0.75	19.1	0.18	4.4			
MRS6S-C4	6.0	152	24.8	630	180	800	0.75	19.1	0.18	4.4			
Light-Heavy Cross Section													
MRS1.5LH-L4	1.5	38	10.6	269	225	1000	1.00	25.4	0.25	6.4	MTRTLS	50	250
MRS2LH-L4	2.0	51	12.2	310	225	1000	1.00	25.4	0.25	6.4			
MRS4LH-L4	4.0	102	18.5	470	225	1000	1.00	25.4	0.25	6.4			
MRS6LH-L4	6.0	152	24.8	630	225	1000	1.00	25.4	0.25	6.4			
Heavy Cross Section													
MRS1.5H-L4	1.5	38	10.6	269	400	1780	1.00	25.4	0.31	7.9	MTRTH	50	250
MRS2H-L4	2.0	51	12.2	310	400	1780	1.00	25.4	0.31	7.9			
MRS4H-L4	4.0	102	18.5	470	400	1780	1.00	25.4	0.31	7.9			
MRS6H-L4	6.0	152	24.8	630	400	1780	1.00	25.4	0.31	7.9			

***For information on installation tools, refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Features and Benefits – Pan-Steel® Strapping System

The Panduit® Pan-Steel® Stainless Steel Strapping is the ultimate solution for strapping applications. The buckle design and tension controlled installation tool offer a quick and safe installation for all harsh environments. Available in four widths 3/8" (9.5mm), 1/2" (12.7mm) 5/8" (15.9mm), and 3/4" (19.1mm) in base 201 (3/4" width only), 304, or 316 stainless steel with a temperature range of -60°C (-76°F) to 1000°F (538°C).

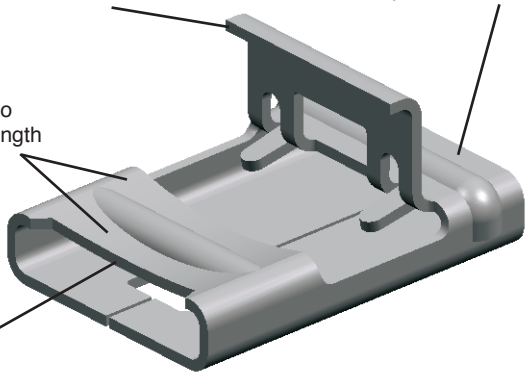
Unique Locking Methods
Pan-Steel® Stainless Steel Strapping

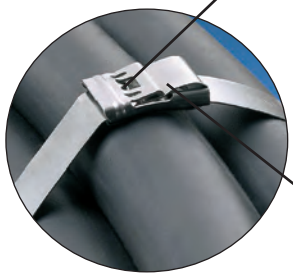
***Patented Hooked Clamping Tab**
Bends strap body within retention area of buckle for increased loop tensile strength and full coverage of cut end of strap

***Patented Cross Rib Support**
Enhanced rigidity for higher loop tensile strength

Buckle Design
Provides a low finished profile

***Patented Concave Cross Section**
Enhanced support to improve tensile strength





***Patented Concave Buckle Recess**
Increases body resistance for increased loop tensile strength

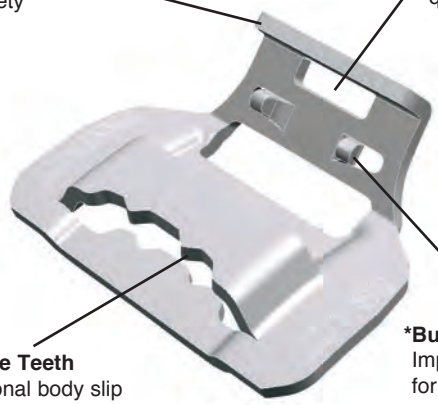
No Sharp Edges
After tensioning, cut end is locked inside buckle

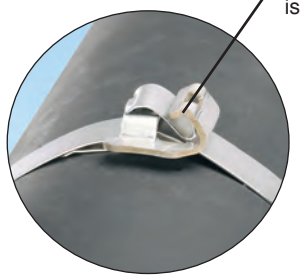
Pan-Steel® Stainless Steel MS75 Strapping

Hooked Clamping Tab
Provides full coverage of cut end of strap for enhanced safety

Buckle Screwdriver Slot
Allows use of screwdriver for buckle closure for a simple quick installation

No Sharp Edges
After tensioning, cut end is locked inside buckle





***Buckle Locking Tabs**
Improve locking mechanism for higher strength

Buckle Bridge Teeth
Deliver additional body slip resistance for optimum strength

*Patented



Custom length strapping available for applications that require various bundle diameters to provide job safety and versatility with minimum inventory. See page B3.23.

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The Panduit Method Reduces Installation Time

Pan-Steel® Stainless Steel Strapping



1) Place strap around the material and insert tail of strap through buckle. Pull strapping tight and bend up to hold in place. Insert tail of strapping into tool nose section. Squeeze handle to tension.



2) Once proper tension is reached, maintain tension and raise tool 90° – 120° over buckle and pull down on cutter lever, cutting strap.



3) Remove tool, press cut end down and toward retaining tab.



4) Using the closure lever on the handle of the tool, bend retaining tab down and over cut end.



Provides a finished, safe, and secure closure.

Pan-Steel® Stainless Steel MS75 Strapping



1) Place strap around the material and insert tail of strap through buckle. Pull strapping tight and bend up to hold in place.



2) Insert tail of strapping into tool nose section. Rotate handle to tension.



3) After tensioning, raise tool 90° – 120° over buckle and pull down on cutter lever, cutting strap.



4) Remove tool and press cut end down toward retaining tab.



5) Using a flathead screwdriver, bend retaining tab down and over cut end.



Provides a finished, safe, and secure closure.

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Discrete Length Strapping

MS	4	W	38	T	15	L	4
Type	**Bundle Diameter (In.)**	**Width**	**Inches**	**Thickness**	15 = **0.015"**	**Standard Package Size**	**Material**
MS = Metal Strap MSC = Metal Strap Coated			38 = 3/8 50 = 1/2 63 = 5/8 75 = 3/4		30 = 0.030"	L = 50 Pcs. Q = 25 Pcs.	2 = 201 SS 4 = 304 SS 6 = 316 SS

Pan-Steel® Strapping – MS Series

- Fold over design provides high-retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- Can be used in a wide range of indoor, outdoor, and underground (including direct burial) applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- Available in AISI 201 (3/4" width only) and 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



Part Number	Max. Bundle Diameter		Length*		Strap Breaking Strength		Min. Bundle Diameter		Width		Thickness		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm	In.	mm			
AISI 201 Stainless Steel															
MS4W75T30-Q2	4.0	102	20.2	513	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76	BT75SDT	25	25
MS6W75T30-Q2	6.0	152	26.5	673	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76			
MS8W75T30-Q2	8.0	203	32.7	831	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76			
MS10W75T30-Q2	10.0	254	39.0	991	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76			
AISI 304 Stainless Steel															
MS2W38T15-L4	2.0	51	11.8	300	502	2229	1.00	25.4	0.38	9.5	0.015	0.38	BT2HT	50	250
MS4W38T15-L4	4.0	102	18.0	457	502	2229	1.00	25.4	0.38	9.5	0.015	0.38			
MS6W38T15-L4	6.0	152	24.4	620	502	2229	1.00	25.4	0.38	9.5	0.015	0.38			
MS8W38T15-L4	8.0	203	30.7	780	502	2229	1.00	25.4	0.38	9.5	0.015	0.38			
MS10W38T15-L4	10.0	254	37.0	940	502	2229	1.00	25.4	0.38	9.5	0.015	0.38			
MS4W50T15-L4	4.0	102	18.0	457	671	2979	1.00	25.4	0.50	12.7	0.015	0.38			
MS6W50T15-L4	6.0	152	24.4	620	671	2979	1.00	25.4	0.50	12.7	0.015	0.38			
MS8W50T15-L4	8.0	203	30.7	780	671	2979	1.00	25.4	0.50	12.7	0.015	0.38			
MS10W50T15-L4	10.0	254	37.0	940	671	2979	1.00	25.4	0.50	12.7	0.015	0.38			
MS4W63T15-L4	4.0	102	18.0	457	839	3725	1.00	25.4	0.63	15.9	0.015	0.38			
MS6W63T15-L4	6.0	152	24.4	620	839	3725	1.00	25.4	0.63	15.9	0.015	0.38			
MS8W63T15-L4	8.0	203	30.7	780	839	3725	1.00	25.4	0.63	15.9	0.015	0.38			
MS10W63T15-L4	10.0	254	37.0	940	839	3725	1.00	25.4	0.63	15.9	0.015	0.38			
AISI 316 Stainless Steel															
MS12W75T30-Q6	12	304	45.3	1150	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76	BT75SDT	25	25
MS14W75T30-Q6	14	355	51.0	1295	2400	10656	1.00	25.4	0.75	19.1	0.030	0.76			

*For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
***For information on installation tools, refer to www.panduit.com/tools.

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Pan-Steel® Nylon 11 Coated Strapping – MSC Series

- Fold over design provides high-retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- AISI 316 stainless steel for the most corrosive environments
- Available in 0.38 inch (9.5mm), 0.50 inch (12.7mm), 0.63 inch (15.9mm) cross sections
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)



Part Number	Max. Bundle Diameter		Length*		Strap Breaking Strength		Min. Bundle Diameter		Width		Thickness^		Recommended Installation Tool***	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	Ft.	m	Lbs.	N	In.	mm	In.	mm	In.	mm			
MSC2W38T15-L6	2.0	51	11.8	300	502	2229	1.00	2.54	0.38	9.5	0.015	0.38	BT2HT	50	250
MSC4W38T15-L6	4.0	102	18.0	457	502	2229	1.00	2.54	0.38	9.5	0.015	0.38			
MSC6W38T15-L6	6.0	152	24.4	620	502	2229	1.00	2.54	0.38	9.5	0.015	0.38			
MSC8W38T15-L6	8.0	203	30.7	780	502	2229	1.00	2.54	0.38	9.5	0.015	0.38			
MSC10W38T15-L6	10.0	254	37.0	940	502	2229	1.00	2.54	0.38	9.5	0.015	0.38			
MSC4W50T15-L6	4.0	102	18.0	457	671	2979	1.00	2.54	0.50	12.7	0.015	0.38			
MSC6W50T15-L6	6.0	152	24.4	620	671	2979	1.00	2.54	0.50	12.7	0.015	0.38			
MSC8W50T15-L6	8.0	203	30.7	780	671	2979	1.00	2.54	0.50	12.7	0.015	0.38			
MSC10W50T15-L6	10.0	254	37.0	940	671	2979	1.00	2.54	0.50	12.7	0.015	0.38			
MSC4W63T15-L6	4.0	102	18.0	457	839	3725	1.00	2.54	0.63	15.9	0.015	0.38			
MSC6W63T15-L6	6.0	152	24.4	620	839	3725	1.00	2.54	0.63	15.9	0.015	0.38			
MSC8W63T15-L6	8.0	203	30.7	780	839	3725	1.00	2.54	0.63	15.9	0.015	0.38			
MSC10W63T15-L6	10.0	254	37.0	940	839	3725	1.00	2.54	0.63	15.9	0.015	0.38			

*Other lengths available, contact Panduit Customer Service.
***For information on installation tools, refer to www.panduit.com/tools.
^Base material less coating.

Order number of pieces required, in multiples of Standard Package Quantity.

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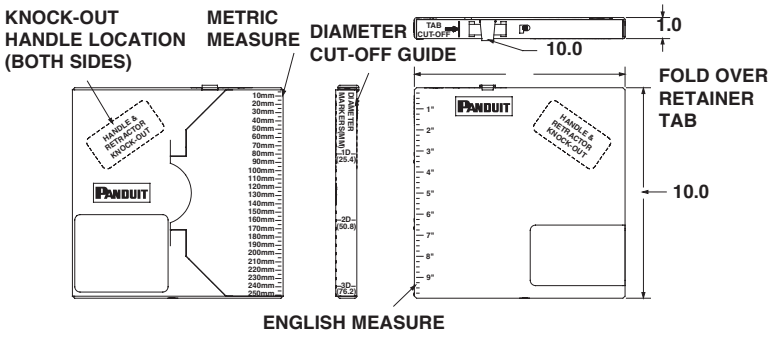
Pan-Steel® Custom Length Strapping

- Fold over design provides high retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- For applications that require various bundle diameters
- Supplied in reels of 82.5 feet (25m) (coated) or 100 feet (30.5m) (uncoated)
- Provides job site versatility with minimum inventory
- Packaging speeds removal of steel and includes bundle diameter cut-off guide
- Available in AISI 201 (3/4" width only) and 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



Nylon 11 coating (optional):

- Nylon 11 coating provides additional edge protection and prevents corrosion between dissimilar metals
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)
- AISI 316 stainless steel for the most corrosive environments



Part Number	Length* Ft.	Length* m	Strap Breaking Strength Lbs.	Strap Breaking Strength N	Width In.	Width mm	Thickness^ In.	Thickness^ mm	Used With Buckle	Recommended Installation Tool***	Std. Pkg. Qty.‡
201 Stainless Steel											
MSW75T30-CR2	100	30.5	2400	10656	0.75	19.1	0.030	0.80	MSBW75-C2	BT75SDT	1
304 Stainless Steel											
MSW38T15-CR4	100	30.5	502	2229	0.38	9.5	0.015	0.38	MSBW38-C4	BT2HT	1
MSW50T15-CR4	100	30.5	671	2979	0.50	12.7	0.015	0.38	MSBW50-C4		
MSW63T15-C4	100	30.5	839	3275	0.63	15.9	0.015	0.38	MSBW63-C4		
Coated Custom Length Strapping											
MSCNW38T15-QR6	82.5	25.0	502	2229	0.38	9.5	0.015	0.38	MSBW38-C6	BT2HT	1
MSCNW50T15-QR6	82.5	25.0	671	2979	0.50	12.7	0.015	0.38	MSBW50-C6		
MSCNW63T15-QR6	82.5	25.0	839	3275	0.63	15.9	0.015	0.38	MSBW63-C6		

*For other lengths, thicknesses and material grades (316SS) available, contact Panduit Customer Service or refer to www.panduit.com.
‡Order in number of reels required. ***For information on installation tools, refer to www.panduit.com/tools.

To determine the proper amount of strapping required, use the following formula:

Calculate	**Diameter inches (mm) x 3.14 + 6 inches (152.4 mm)**

Pan-Steel® Buckles for Custom Length Strapping



Part Number	Material	Width In.	Width mm	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AISI 201 Stainless Steel						
MSBW75-C2	201	0.75	19.1	Individual low profile buckles used with metal strapping.	100	—
AISI 304 Stainless Steel						
MSBW38-C4	304	0.38	9.5	Individual low profile buckles used with custom length strapping.	100	1000
MSBW50-C4	304	0.50	12.7			
MSBW63-C4	304	0.63	15.9			

Buckles also available in 316 material grade. Contact Panduit Customer Service or refer to www.panduit.com for additional information.

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PCS Cushion Sleeve

- Black cushion sleeving used with Pan-Steel® Stainless Steel Ties, custom length banding, and MS strap
- Used on applications requiring improved gripping on non-resilient objects
- Can be used indoors or outdoors (excellent ultraviolet resistance, good resistance to petroleum, and many chemicals)
- Isolation between dissimilar metals allows the ties and straps to be used with aluminum cable tray
- Provides full separation between the ties and the bundle
- Operating temperature range -40°F (-40°C) to 200°F (93°C)





Part Number	Material	Used with Pan-Steel® Ties/Strapping	Width		Length		Std. Pkg. Qty. (reels)‡
			In.	mm	Ft.	m	
PCSS-B-CR	Neoprene	MLT/S	0.33	8.4	100	30.5	1
PCSH-B-CR		MLT/LH/H	0.47	11.9	100	30.5	
PCSSH-B-CR*		MLT/EH/SH and MS Straps	0.91	23.1	100	30.5	
PCSLSH-B-CR	TPE	MLT/EH/SH and MS Straps	1.05	26.8	100	30.5	

*Meets MIL-R-6855
‡Order in number of reels required.
Pkg. –CR = 100 ft. (30.5m) reel.

Metal Uniclip Brackets

- Allows Panduit stainless steel ties and straps to be installed on any style or design of cable tray; slotted or un-slotted
- Eliminate consideration of diagonal installations
- High resistance to lateral and axial movement









Part Number	Material	Used with Pan-Steel® Ties	Description
UCSQ1-VC	Galvanized Steel	MLTS/LH/H/EH/EH15/SH, MLTC/H, MLTFC/S/LH/H/EH/SH, or MSW75	Universal Metal Rung Bracket – Strut Type
UCRND1-VC			Universal Metal Rung Bracket – Round
UCIB1-VC			Universal Metal Rung Bracket – I-Beam
UCTH1-VC			Universal Metal Rung Bracket – Top Hat
UCSQ1-V316	Stainless Steel Type 316		Universal Metal Rung Bracket – Strut Type
UCRND1-V316			Universal Metal Rung Bracket – Round
UCIB1-V316			Universal Metal Rung Bracket – I-Beam
UCTH1-V316			Universal Metal Rung Bracket – Top Hat

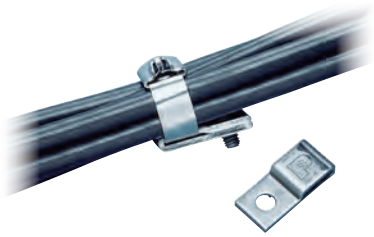
Contact Customer Service for additional sizes, styles, or material grade.

Order number of pieces required, in multiples of Standard Package Quantity.

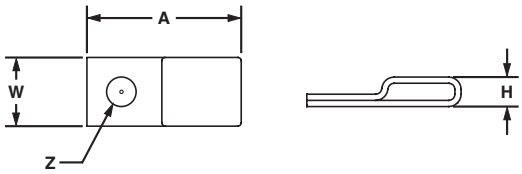
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Stainless Steel Tie Mounts

- Low profile
- One hole mounting



- For use with standard, light-heavy, and heavy cross section Pan-Steel® Ties as well as 0.38 inch (9.5mm) wide strapping
- 304 Stainless Steel

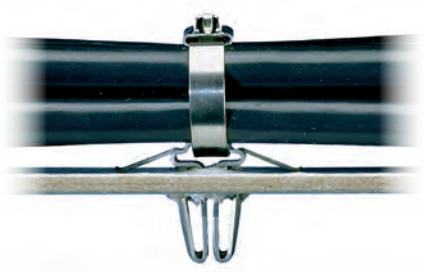


Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method*	Length A		Width W		Height H		Hole Diameter Z		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm		
MTM1H-C	MLTS/LH/H, MLTC/H, MLTFC/S/LH/H or MSW38	#8 (4mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.17	4.4	100	1000
MTM1H10-C		#10 (5mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.21	5.4		
MTM1H25-C		1/4" (6mm) screw	0.90	22.6	0.40	10.2	0.17	4.4	0.28	7.1		

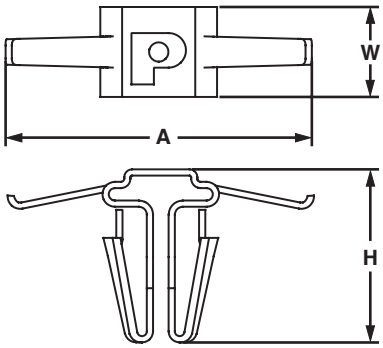
*Stainless steel screws are recommended for fastening to avoid corrosion problems associated with dissimilar metals.
Contact Customer Service for additional sizes and material grades available.

Stainless Steel Push Mount

- No tapping required
- Used where only one side of the panel is accessible
- Nothing to assemble



- For use with standard, light-heavy, and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel



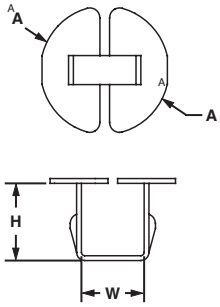
Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method	Length A		Width W		Height H		Panel Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In..	mm	In.	mm		
MPWM-H56-Q	MLTS/LH/H, MLTC/H or MLTFC/S/LH/H	Inserted into pre-drilled hole 5/16" (8mm)	0.84	21.3	0.29	7.3	0.56	14.2	0.03 – 0.09	0.8 – 2.4	25	250

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Stainless Steel Push Button Mount

- Low profile
- No tapping required
- Designed for use only where both sides of the panel are accessible
- For use with standard cross section Pan-Steel® Ties
- 304 Stainless Steel

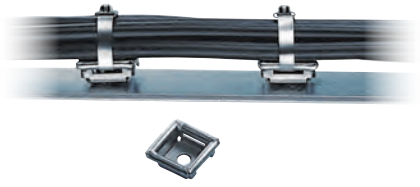


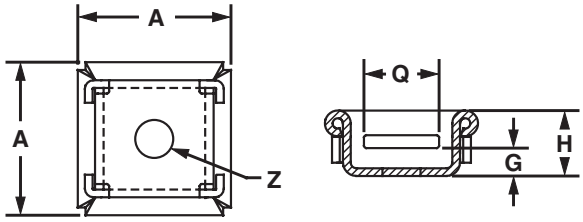


Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method	Diameter A		Width W		Height H		Panel Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In..	mm	In.	mm		
MBM-H25-Q	MLT/S or MLTFC/S	Inserted into pre-drilled hole 0.25" (6.4mm)	0.40	10.0	0.20	5.0	0.26	6.5	0.03 – 0.12	0.8 – 3.0	25	250

Stainless Steel 2-Way Tie Mount

- Allows stainless steel cable ties to be inserted from either of two sides
- Low profile
- Single hole center mounting for maximum holding and stability
- Maximum screw head height 0.09 inches (2.3mm)
- For use with standard, light-heavy, and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel





Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method*	Length A		Height H		Screw Head Height G		Slot Width Q		Hole Diameter Z		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	Lbs.	N	In.	mm	In.	mm		
MTM2H-Q	MLTS/LH/H, MLTC/H or MLTFC/S/LH/H	#8 (4mm) screw	0.71	18.0	0.30	8.0	0.09	2.3	0.35	9.0	0.17	4.5	25	250

*Stainless steel screws are recommended for fastening to avoid corrosion problems associated with dissimilar metals.

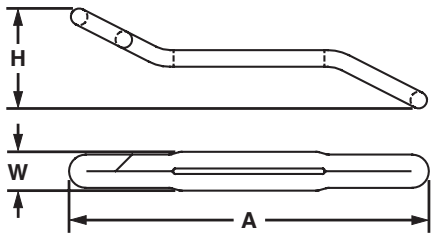
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Stainless Steel Bulkhead Mount

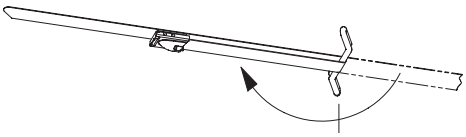
- Zero profile
- Mounts directly to surface
- Used where only one side of the panel is accessible
- Permanent, secure application
- Used with standard, light-heavy, and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel



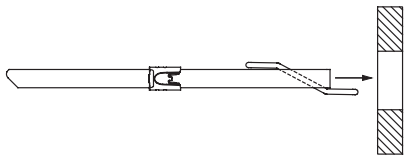


Part Number	Used with Pan-Steel® Ties/Strapping	Mounting Method	Length A		Width W		Height H		Max. Panel Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In..	mm	In.	mm		
MTMBH-Q	MLTS/LH/H/EH/SH, MLTC/H, or MLTFC/S/LH/H/EH/SH	Pre-drilled hole size standard and light-heavy cross section MLT-S/LH 0.38" (9.5mm) – 0.50" (12.7mm). Heavy cross section MLT-H 0.50" (12.7mm) – 0.63" (15.9mm).	1.92	48.5	0.21	5.3	0.54	13.7	0.50	12.7	25	250

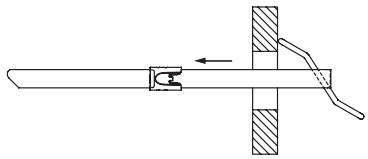
To Install Bulkhead Mount:



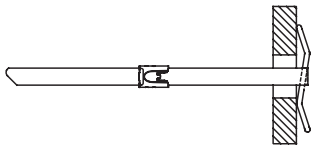
1) Insert cable tie through mount slot and fold cable tie.



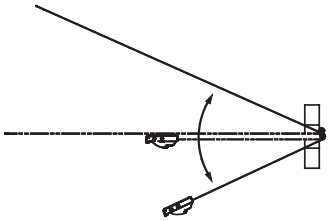
2) Insert cable tie and mount through panel/framework hole.



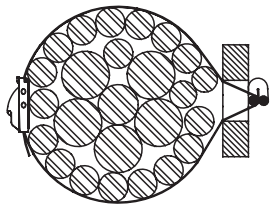
3) Pull cable tie back to secure the mount in the panel/framework.



4) Mount shown in correct position for installation.



5) Separate cable tie to allow for bundling of cables/wires, etc.



6) Install cable tie around bundle and fasten.

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Stainless Steel Technical Information

Physical Characteristics of Stainless Steel and Aluminum

	Pan-Steel® Stainless Steel MS Strapping and Buckles	Pan-Steel® Stainless Steel Cable Ties
Material:	201, 304, and 316 Grade Stainless Steel	304 and 316 Grade Stainless Steel
Maximum Temperature Rating	1000°F (538°C)	1000°F (538°C)
Minimum Temperature Rating	-76°F (-60°C)	-76°F (-60°C)
RoHS:	Compliant	Compliant
Flammability:	Non-Flammable	Non-Flammable
Ultraviolet light resistance:	Excellent	Excellent

Panduit Stainless Steel Cable Tie and Strapping Approvals

Logo (Symbol)	Agency	Spec/Approval	Requirement	Applicable Products
c UL us LISTED	Underwriters Laboratories, Inc.	Listing E56854	Dimensional, tensile, temp., cycling, humidity	MLT-S, MLT-LH, MLT-H, MLTEH15, MLTSH, MLTDEH and MLTDSH in 304 and 316. MSW38T15, MSW50T15, MSW63T15, MSBW38, MSBW50, MSBW63 in both 304 and 316 material. MLT-EH, MLT-DH, MLT-DEH15, MLT-FCH, MLT-FCEH, MSCNW63-T15, MSW75T30, MSBW75. MSCW38T15, MSCW50T15, MSCW63T15, MSCNW38T15, MLTFCS, SH, MLTCH, MSCNW50T15, and MSW63T15 in 316 material.
CE	Conformite European	Low Voltage Directive 73/23/EEC (amended 93/68/EEC) MLT cable ties and MS straps also meet the requirements from EN62275	CE Marking is required for products sold within the European Union. CE Marking Directives specify the minimum performance of these products. Applying the CE mark signifies compliance with essential requirements of specific directives.	All MLT, MRT, MRS ties and MS straps.
ABS TYPE APPROVAL PROGRAM	Amer. Bureau of Shipping	Cert. # 14-HS1189616-3-PDA	Mechanical	All MLT ties and MS straps.
BUREAU VERITAS 1828	Bureau Veritas	Cert. #05968/E2BV	Material specification, dimensional, visual	All uncoated MLT ties in 304 and 316 material.
TYPE APPROVED PRODUCT DNV·GL DNVGL.COM/AF	Det Norske Veritas and Germanischer Lloyd	Cert. # TAE000012M	Salt mist test, tensile test, accelerated aging, vibration tests, Mechanical	All coated and uncoated MLT ties.
		Cert. # TAE000013N		All coated and uncoated MS straps.
APPROVED LR	Lloyd's Register of Shipping	Cert. # L5/60006(E1)	Material specification, tensile test, vibration tests	All uncoated stainless steel MLT ties and all MS straps.
	SAE Int'l formerly US MIL	AS23190 formerly MS23109E	Dimensional, visual, vibration, temp. cycling, immersion	MLT-S and MLT-H ties in 304 and 316 material.
	US Coast Guard	File No.16703/46	Mechanical	MLT-H series cable ties.
	US Military	SAE AS81306/ MS90387-3	Mechanical	GS4MT-E installation tools.
	Russian Maritime	17.00775.315	Mechanical	All MLT ties and MS straps.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chemical Resistance at 70°F (21°C) Temperature

Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*	Chemical	%	304 and 316 Stainless Steel*
Arsenic Acid	40	E	Cider	?	E	Methyl Alcohol	100	E	Sodium Bisulfate	10	E
Acetone	100	E	Dichloroethane	100	E	Methyl Chloride	100	E	Sodium Borate	All	E
Aluminum Hydroxide	AQ C.S.	E	Diethyl Ether	100	E	Methyl Ethyl Ketone	100	E	Sodium Carbonate	5	E
Ammonium Carbonate	5	E	Ethyl Alcohol	100	E	Naphtha	100	E	Sodium Chlorate	25	E
Ammonium Hydroxide	10	E	Ethyl Chloride	100	E	Nitric Acid	30-70	E	Sodium Chloride	2	E
Ammonium Nitrate	100	E	Ethyl Glycol	100	E	Nitrous Acid	5	E	Sodium Fluoride	5	F
Ammonium Sulfate	10	E	Ferric Hydroxide	All	E	Oleic Acid	100	E	Sodium Hydroxide	10	E
Barium Carbonate	All	E	Ferric Nitrate	10	E	Oxalic Acid	10	E	Sodium Hyposulfite	AQ C.S.	E
Barium Chloride	5	E	Ferrous Sulfate	10	E	Paraffin	100	E	Sodium Nitrate	5	E
Barium Sulfate	10	E	Fuel Oil	100	E	Petroleum Ether	100	E	Sodium Nitrite	AQ C.S.	E
Barium Sulfide	10	E	Futural	100	E	Phenol	90	E	Sodium Percolate	10	E
Benzene	100	E	Gallic Acid	AQ C.S.	E	Phosphoric Acid	10	E	Sodium Phosphate	5	E
Benzoic Acid	100	E	Gasoline	100	E	Picric Acid	1	S	Sodium Sulfate	5	E
Butryic Acid	50	E	Glycerine	100	E	Potassium Bromide	AQ C.S.	S	Sodium Thiosulfate	5	S
Calcium Carbonate	AQ C.S.	E	Hydrocyanic Acid	All	E	Potassium Carbonate 1%	1	E	Stearic Acid	100	E
Calcium Chlorate	10	E	Hydrogen Peroxide	30	E	Potassium Chlorate	AQ C.S.	E	Sulfur	100	E
Calcium Hydroxide	20	E	Hydrogen Sulfide	Dry	E	Potassium Dichromate	40	E	Sulfur Dioxide	All	E
Calcium Hydrochlorite	2	F	Idoform	100	E	Potassium Ferrocyanide	25	E	Sulfuric Acid	100	E
Calcium Sulfate	2	E	Isopropyl Alcohol	100	E	Potassium Hydroxide	5	E	Sulfuric Acid	5	F
Carbon	100	E	Jet Fuel	100	E	Potassium Iodide	All	E	Tannic Acid	10	E
Chlorine (Wet)	Wet	F	Lactic Acid	100	E	Potassium Nitrate	50	E	Tartaric Acid	50	E
Chlorine (Dry)	Dry	F	Lanolin	10	E	Potassium Permanganate	5	E	Tetrahydrofuran	100	E
Chloroacetic Acid	30	F	Lead Acetate	5	E	Potassium Sulfate	5	E	Toluene	100	F
Chloroform	100	E	Magnesium Carbonate	All	E	Potassium Sulfide	AQ C.S.	E	Xylene	100	E
Chromic Acid	5	E	Magnesium Chloride	10	E	Propyl Alcohol	100	E	Zinc Chloride	70	E
Citric Acid	50	E	Magnesium Nitrate	All	E	Silver Nitrate	10	E	Zinc Nitrate	AQ C.S.	E
Copper Cyanide	10	E	Malic Acid	AQ C.S.	E	Sodium Acetate	60	E	Zinc Sulfate	AQ C.S.	E
Copper Nitrate	50	E	Mercury	100	E	Sodium Bicarbonate	All	E			

*E = Excellent, S = Satisfactory, F = Fair, AQ C.S. = Aqueous Cold Saturated, All = All % Concentrations.

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Rigorous Tests and Physical Properties of Stainless Steel



STRENGTH: Panduit® Pan-Steel® Stainless Steel Ties and Straps are tested per the SAE Standard AS23190 formerly U.S. Military Specification MIL-S-23190, minimum loop tensile test. This test consists of applying a tie to a split mandrel and then measuring the force required to separate the (two) halves until the tie fails. These minimum loop tensile strengths are given for the various products on pages B3.5 – B3.26.

TEMPERATURE EXTREMES: Panduit® Pan-Steel® Stainless Steel Ties and Straps are 100% stainless steel in the alloy provided (locking head, locking ball, and body all provided from the same grade of material ordered).

Various temperature tests have been successfully completed. One such test is the U.S. Military Temperature Cycling Test per Thermal Shock Method 107, Test Condition B of MIL-STD-202. This test exposes the parts from low temperature -85°F (-65°C) to high temperature 275°F (135°C) to low temperature -85°F (-65°C). After exposure, the parts must be free of cracks, distortions, breaks, release of locking device, and meet the minimum loop tensile requirements.

SHOCK AND VIBRATION: Panduit® Pan-Steel® Standard and Heavy Cross Section ties have passed the U.S. Military random vibration Test Method 214. Test Condition II, Letter J of MIL-STD-202. This test consists of applying parts to a bundle and then vibrating them with random vibration for eight hours in each of two mutually perpendicular directions. The parts are then subjected to further temperature testing and finally have to pass the minimum loop tensile strength test.

Panduit® Pan-Steel® Extra-Heavy, Super-Heavy, MSW50 Strapping and MSW63 Strapping have passed the U.S. Military Shock and Vibration Testing per MIL-STD-167 and MIL-S-901D. The ties were subjected to vibrations in all three planes from 4 – 50 Hz and Shock testing in all three planes utilizing a hammer shock machine.

SALT SPRAY: Panduit® Pan-Steel® Stainless Steel Ties and Straps have been subjected to salt spray tests without signs of corrosion or reduction in performance.

OUTDOOR EXPOSURE: Panduit® Pan-Steel® Stainless Steel Ties and Straps have been exposed outdoors in Northern Illinois, USA since 1985. At the printing of this catalog, there has been no sign of corrosion or loss of performance.

FLUID IMMERSION: Panduit® Pan-Steel® Stainless Steel Ties were immersed in: 1-Hydraulic Fluid, 2-Turbine Fuel, 3-Lubricating Oil, and 4-Isopropyl Alcohol for four hours at temperatures of 122°F (50°C). Per SAE Standard MS23190, the parts were then subjected to and passed the minimum loop tensile test.

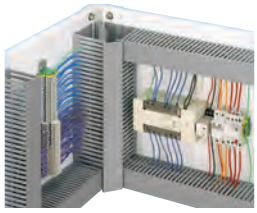
RADIATION: Installed cable ties of various materials have been exposed to different amounts of radiation to determine the maximum acceptable limit. These tests were conducted by Panduit to determine the acceptability for use in various areas of nuclear power plants (accumulated over 40 year life). Radiation resistance is $2x10^8$ rads.

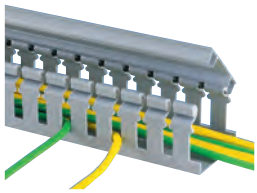
Military Cross Reference (M23190)

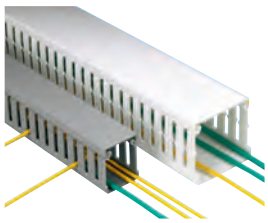
Military Standard Part Number	Panduit Part Number
M23190/3-1	MLT2S-CP
M23190/3-1	MLT2S-CP316
M23190/3-2	MLT4S-CP
M23190/3-2	MLT4S-CP316
M23190/3-3	MLT6S-CP
M23190/3-3	MLT6S-CP316
M23190/3-4	MLT8S-CP
M23190/3-4	MLT8S-CP316
M23190/3-5	MLT2H-LP
M23190/3-5	MLT2H-LP316
M23190/3-6	MLT4H-LP
M23190/3-6	MLT4H-LP316
M23190/3-7	MLT6H-LP
M23190/3-7	MLT6H-LP316
M23190/3-8	MLT8H-LP
M23190/3-8	MLT8H-LP316
M23190/3-9	MLT10H-LP
M23190/3-9	MLT10H-LP316

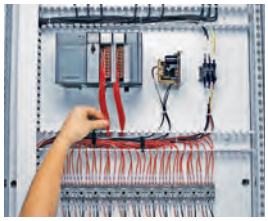
Order number of pieces required, in multiples of Standard Package Quantity.

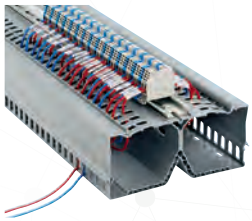
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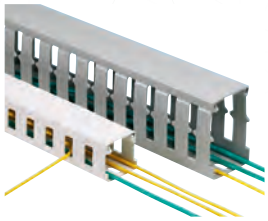












Wiring Duct

From the smallest wall mounted panels to the largest integrated turnkey systems, Panduit® Panduct® Wiring Duct is the premium wire management solution for routing and concealing wiring in electrical control panels. Panduct® Wiring Duct provide solutions for the original equipment manufacturing, transportation, contract manufacturing, maintenance and repair and communications markets. Panduct® Wiring Duct is UL recognized and CSA Certified and most carry the CE mark.

Some of the features and benefits found in Panduct® Wiring Duct include:

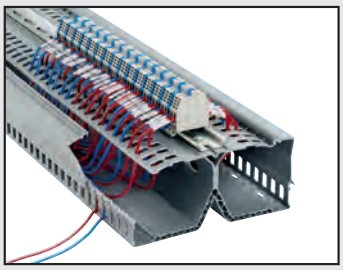
- **Smooth corners and edges that will not abrade wiring or irritate hands**
- **Integrated nonskid liners and unique cover designs insure the duct cover will not slide once installed or during vibration**
- **Specially formulated lead-free PVC material meets the NFPA79: 2015 flame retardancy requirements and carries a UL 94 V-0 flammability rating**
- **Scorelines for easy removal of duct fingers and sidewalls**
- **Accessories and tools that increase productivity and lower the installed cost**

Panduit continues to develop new Panduct® Wiring Duct solutions to satisfy the challenges facing our customers worldwide. Maximize the utilization of enclosure space with PanelMax™ Corner Wiring Duct, DIN Rail Wiring Duct, and Noise Shield. PanelMax™ Corner Wiring Duct fits into unused space in the corner of enclosures providing up to 20% enclosure space savings*. Integrate component mounting with wire management with PanelMax™ DIN Rail Wiring Duct for up to 30% enclosure space savings. PanelMax™ Noise Shield provides noise mitigation between noisy and sensitive cabling and can reduce air space requirements within the enclosure.

*Versus panel layouts using conventional wiring duct.

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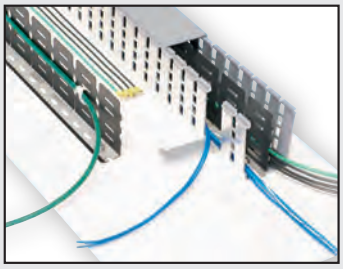
Wiring Duct for Control Panel Applications



PanelMax™ DIN Rail Wiring Duct 1

Up to 30% space savings vs. conventional duct/rail layouts.

(pages C1.4 – C1.5)



PanelMax™ Shielded Wiring Duct and Noise Shield 2

Shielded products help mitigate noise up to 20 dB or create up to 6 inches of air space.

(pages C1.6 – C1.7)

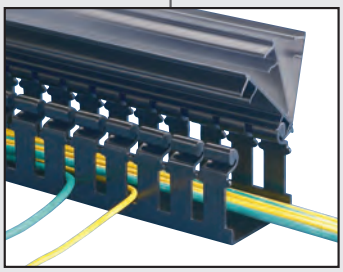


PanelMax™ Corner Wiring Duct 3

Up to 20% space savings in layouts with side and back panels

(pages C1.8 – C1.9)

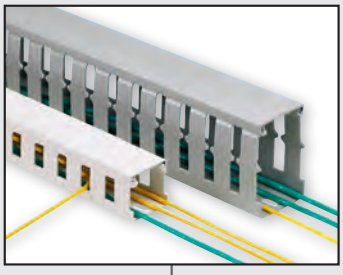
4



Hinged Cover Wiring Duct

Wide slot, narrow slot, and solid wall wiring duct with hinging cover.

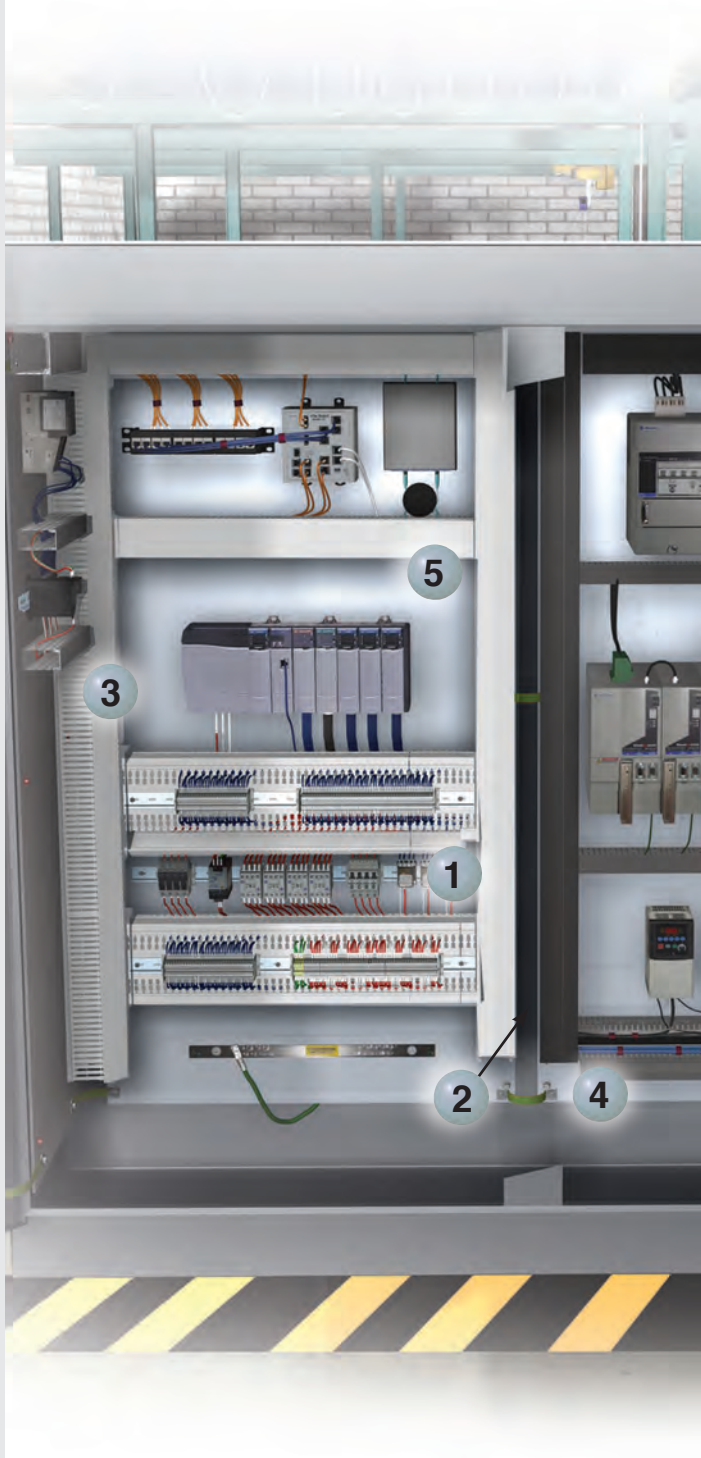
(pages C1.10 – C1.12)



Type NE and NNC Halogen Free Wiring Duct
Up to 203˚F (95˚C) operating temperature

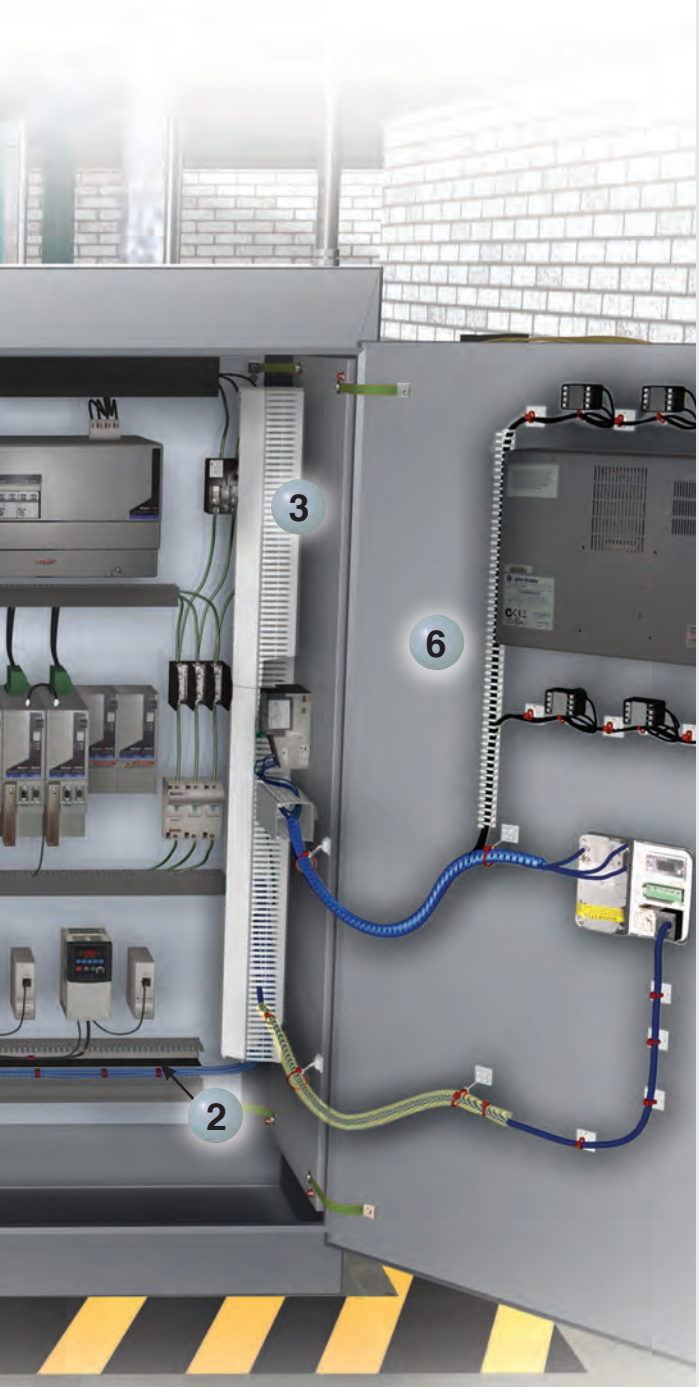
Type TNC Low-Smoke, Halogen Free Wiring Duct
Up to 221˚F (105˚C) operating temperature

(pages C1.24 – C1.28)



Order number of pieces required, in multiples of Standard Package Quantity.

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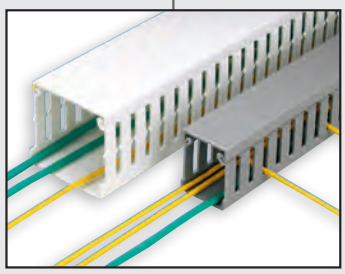


5

Type F Narrow Slot Wiring Duct

Narrow slot, narrow finger design fits the spacing of high-density terminal blocks.

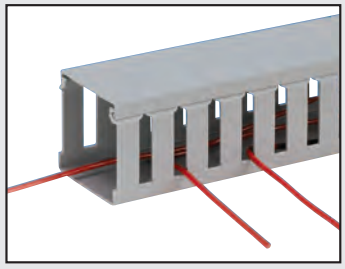
(pages C1.16 – C1.17)



Type G Wide Slot Wiring Duct

Wide slot, wide finger design.

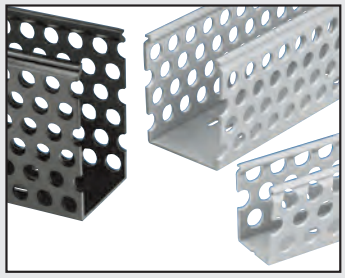
(pages C1.14 – C1.15)



Type D Round Hole Wiring Duct

Multiple rows of holes to retain and support wire of variable heights and positions.

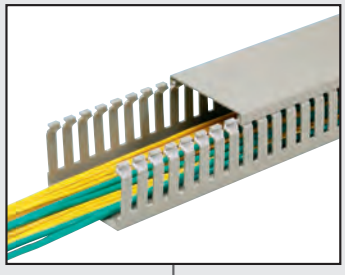
(pages C1.18 – C1.19)



Type MC Metric Wiring Duct

Narrow slot, narrow finger design with DIN 43 659 mounting holes.

(pages C1.20 – C1.21)

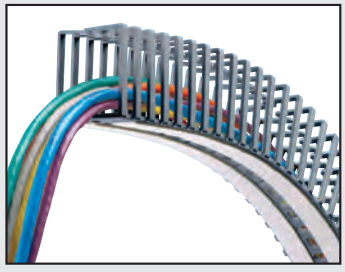


6

Type FL Flexible Wiring Duct

Solution for door mounted push-button wiring or tight spaces without cover access.

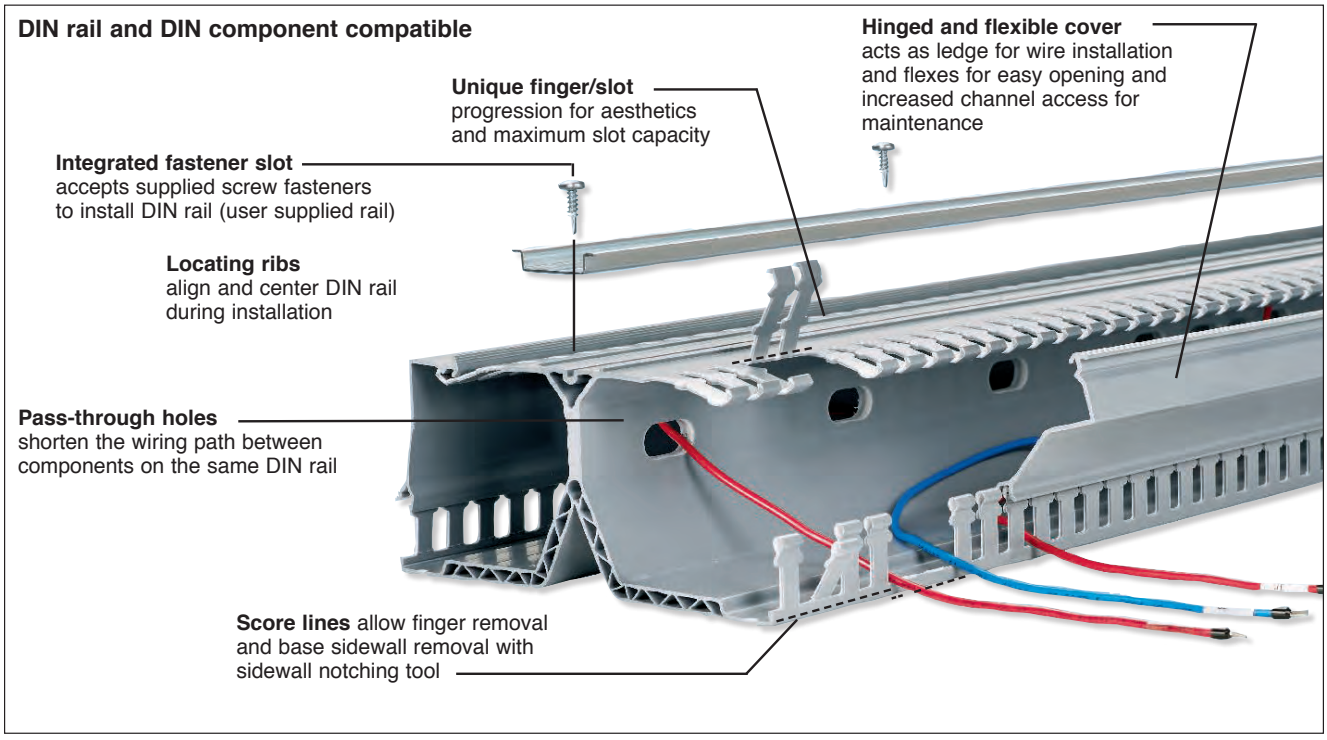
(page C1.30)



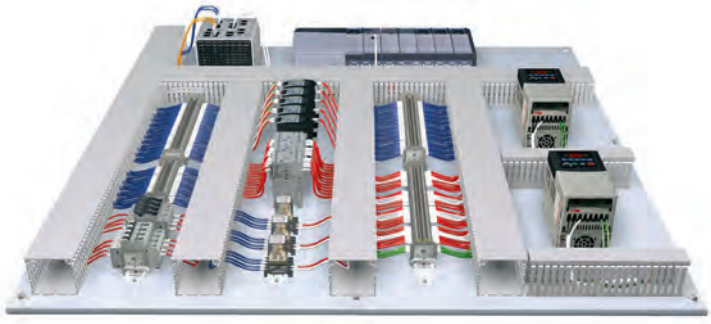
Accessories
(pages C1.29 – C1.36)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® PanelMax™ DIN Rail Wiring Duct



Conventional Wiring Duct Panel Layout:



DIN Rail Wiring Duct Panel Layout with 30% Space Savings:



Panduit® PanelMax™ DIN Rail Wiring Duct positions DIN rail and components off the panel directly above an integrated wire management channel for a 30%+ smaller footprint to the panel layout.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® PanelMax™ DIN Rail Wiring Duct

- Space saving design positions DIN rail and components off the panel directly above an integrated wire management channel for up to a 30% smaller footprint for duct and components; increased design flexibility and component access for easier installation and maintenance
- DIN rail and DIN component compatible with standard 35mm or 15mm rails and many DIN rail mount components for design flexibility
- Integrated DIN rail fastening slot allows the DIN rail to mount directly to product with plastic thread cutting screws for up to 40% faster duct and rail installation and reduced labor costs
- Hinged cover remains attached during maintenance and upgrades preventing lost covers, ensuring panel integrity, safety and aesthetics; L-shaped cover acts as ledge to aid wire installation for ease of use
- Slotted platform (horizontal) manage the wire from channel mounted components, outer sidewall slots (vertical) manage wire from adjacent panel mounted components; unique finger and slot progression for optimal wire management and aesthetics
- Channel pass through slots allows wires to transition internally between channels to ease wire connections to either side of components mounted on the same rail minimizing wire length and reducing material cost
- Optional wire retainer accessory retains cabling with cover opened or removed easing wire installation and future wire additions



DRD



DRDWR



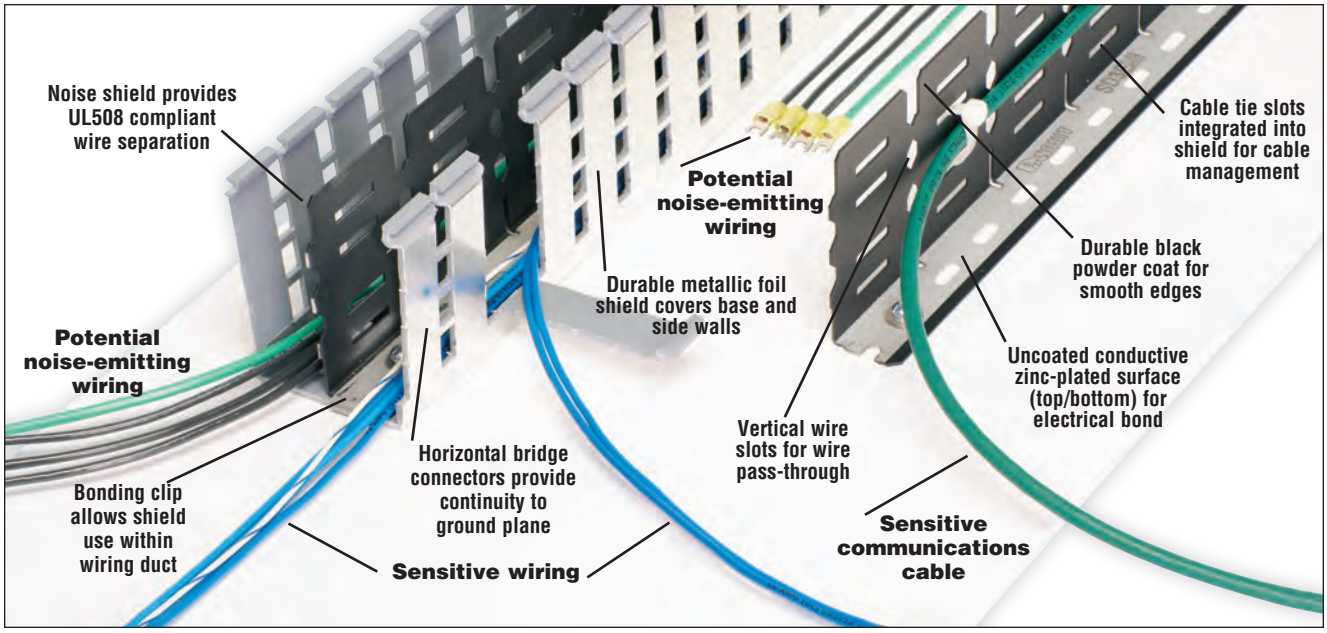
DRDCS

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
DRD22LG6	2" height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 6.25" W x 2.12" H (158.7mm x 54.0mm). Base, covers and DIN rail fasteners included.	6 Ft.	6 Ft.
DRD33LG6	3" height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 7.25" W x 3.14" H (184.1mm x 79.9mm). Base, covers and DIN rail fasteners included.		
DRD44LG6	4" height PanelMax™ DIN Rail Wiring Duct with dual wiring channels. 8.23" W x 4.12" H (209.0mm x 104.8mm). Base, covers and DIN rail fasteners included.		
DRDC2LG6	2" replacement cover for PanelMax™ DIN Rail Wiring Duct. 1.58" W x 72" L (40.1mm x 1828.8mm)	6 Ft.	24 Ft.
DRDC3LG6	3" replacement cover for PanelMax™ DIN Rail Wiring Duct. 2.26" W x 72" L (57.4mm x 1828.8mm)		
DRDC4LG6	4" replacement cover for PanelMax™ DIN Rail Wiring Duct. 2.76" W x 72" L (70.1mm x 1828.8mm)		
DRDSF-C	Replacement DIN rail fasteners for PanelMax™ DIN Rail Wiring Duct.	100	—
DRDWR2-X	2" wire retainer for PanelMax™ DIN Rail Wiring Duct.	10	100
DRDWR3-X	3" wire retainer for PanelMax™ DIN Rail Wiring Duct.		
DRDWR4-X	4" wire retainer for PanelMax™ DIN Rail Wiring Duct.		
DRDCS2-X	2" corner strip for PanelMax™ DIN Rail Wiring Duct.		
DRDCS3-X	3" corner strip for PanelMax™ DIN Rail Wiring Duct.		
DRDCS4-X	4" corner strip for PanelMax™ DIN Rail Wiring Duct.		

Product sold base and cover together in 6 ft. lengths. Replace LG with WH for white color.
Dimensions in parenthesis are metric.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® PanelMax™ Shielded Wiring Duct and Noise Shield





PanelMax™ Noise Shield separates drive cables and sensitive communication/signal cables within industrial control panels to reduce electromagnetic interference (EMI) while saving valuable space.



Metal noise barrier equivalent to 6 inches of air spacing between power and signal cables, saves valuable panel space.



Perforated and pre-scored sections make it easy to cut to length with minimal deburring required.



Design Flexibility
Can be installed directly to metal panel surface or within Panduit wiring duct. Compatable with 2", 3", and 4" height wiring ducts.



Bonding Clips
Noise Shield includes four bonding clips when mounting Noise Shield inside wiring duct.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® PanelMax™ Noise Shield

- Reduces EMI/RFI noise between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 6 inches of air spacing); innovative design installs easily within Panduit wiring duct or when mounted separately, delivering greater design flexibility to satisfy a wide range of applications
- Perforated and pre-scored sections speed installation by allowing sections of the shield to be snapped off at pre-scored locations to easily cut to length with minimal deburring required
- Vertical wall slots allow wires to cross the barrier at 90° when necessary, providing greater design flexibility
- Horizontal cable tie slots allow cable bundles to be held in place using cable ties so cabling is kept near barrier for greater reliability and optimal aesthetics
- Zinc plated steel surface in contact areas with sub-panel and bonding clip ensures continuity and is corrosion resistant
- Black powder coated vertical surface for smooth edges
- Meets UL 508/508A requirements as a barrier between conductors



PanelMax™ Noise Shield and Bonding Clips

Part Number	Part Description	Std. Pkg. Qty.
SD2EMI	EMI Noise Shield kit for 2" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SD3EMI	EMI Noise Shield kit for 3" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	
SD4EMI	EMI Noise Shield kit for 4" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	
SDCLIP	Noise Shield replacement bonding clips – 2 clips.	

For tool information refer to www.panduit.com/tools.

Panduct® PanelMax™ Shielded Wiring Duct

- Durable and continuous metallic foil covers and shields outer duct surfaces providing EMI/RFI noise reduction between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 6 inches of air spacing)
- Slotted sidewalls with horizontal bridge connectors provide wire management capability and noise reduction in the full height of the duct; slot size compatible with various wire types and sizes, including UTP Ethernet cabling
- High-quality Panduit PVC wiring duct base fully contains and protects wiring, easy to cut and install, and uses standard Panduit wiring duct covers
- Installs with standard fasteners including Panduit NR1 rivets

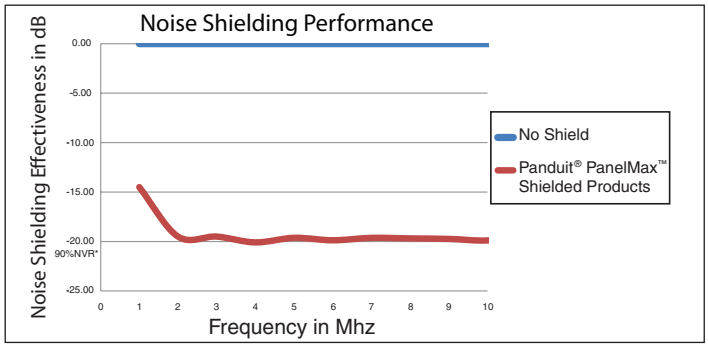


PanelMax™ Shielded Wiring Duct

Part Number	Part Description	Std. Pkg. Qty.
G2X2LG6EMI	2" x 2" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12
G2X3LG6EMI	2" x 3" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	
G2X4LG6EMI	2" x 4" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	

Use C2LG6 or C2WH6 cover with shielded wiring duct. Standard package quantity in feet.
For tool information refer to www.panduit.com/tools.

Performance Characteristics



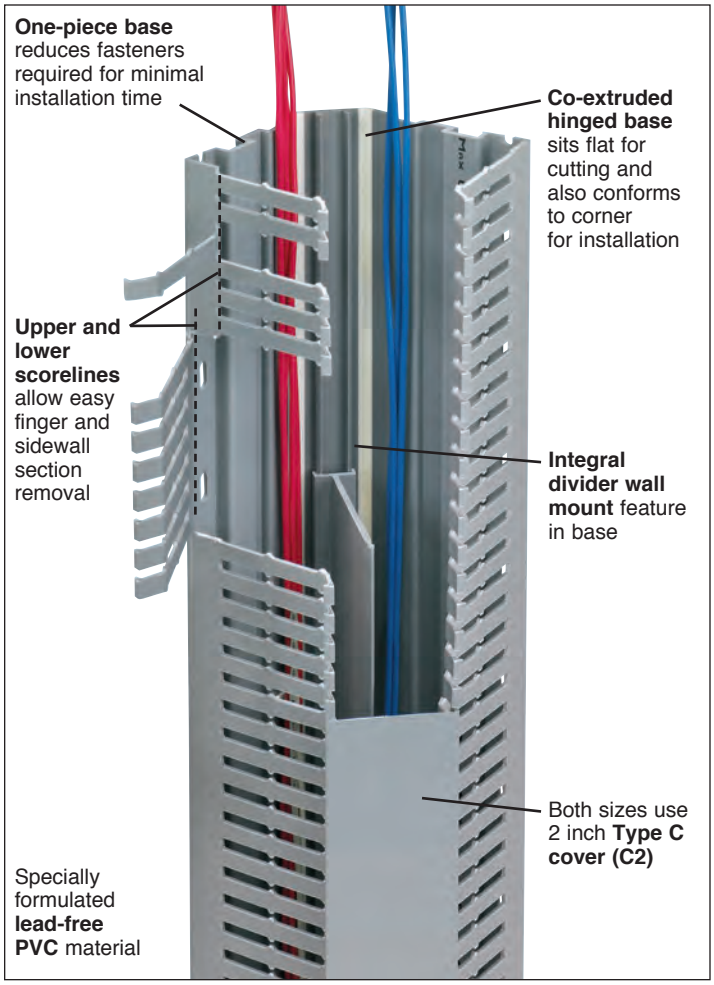
Relative noise reduction in decibels over frequency range of Panduit® PanelMax™ Shielded Wiring Duct and Noise Shield

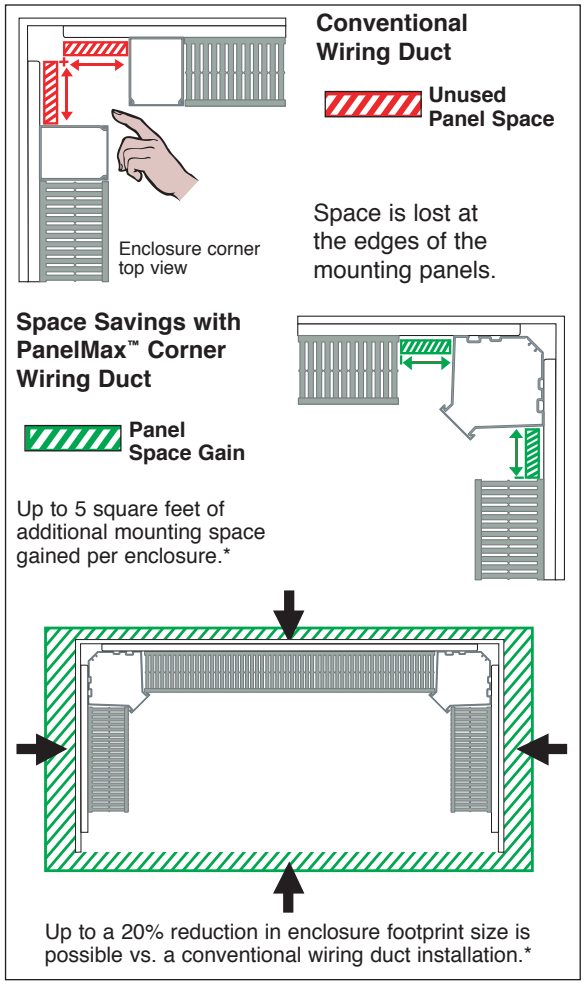
PanelMax™ Shielded Wiring Duct and Noise Shield deliver approximately 20dB of noise reduction across common industrial noise frequencies at 30mm wire separation with an approximate 1-meter coupling length.

*NVR (Noise Voltage Reduction percentage).

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® PanelMax™ Corner Wiring Duct







Panduct® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.

(see page C1.9)



Panduct® Divider Wall

Creates separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)

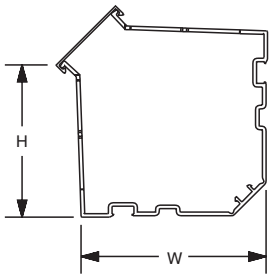
*Actual subpanel space savings will vary depending on wiring duct size, component layout, and enclosure size and type. Footprint savings is based on commercially available enclosures and may not be achievable in some applications.

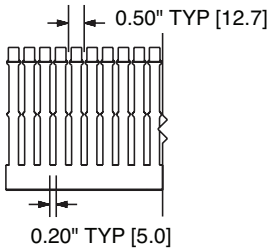
Order number of pieces required, in multiples of Standard Package Quantity.

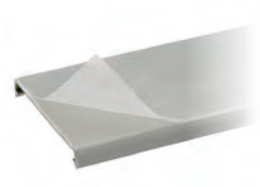
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PanelMax™ Corner Wiring Duct

- Fits in the unused space in the vertical corner of enclosures, gaining sub-panel space or saving enclosure footprint area
- One-piece base requires less time to install than multi-piece solutions
- Optional quick mount clips engage anywhere along the product base further reducing assembly costs
- Panduit® divider wall snaps directly to the integrated mounting feature in the channel to create two separate channels
- Compatible with Panduit 2", 3", and 4" height wiring duct; all product sizes use standard 2 inch wiring duct cover
- Base and cover length is 6 feet
- Base and covers sold separately







To order cover with protective film add "–F" to part number. 6" cover not available with protective film.



Part Number	Duct Size W x H		Slot Width		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm	In.	mm				
CWD2LG6	3.35 x 2.57	85.0 x 65.3	0.2	5.0	**C2LG6**	6	24	120
CWD3LG6	4.40 x 3.57	111.8 x 90.7	0.2	5.0	**C2LG6**			
CWD4LG6	5.33 x 4.58	135.3 x 115.7	0.2	5.0	**C2LG6**			
CWD2WH6	3.35 x 2.57	85.0 x 65.3	0.2	5.0	**C2WH6**			
CWD3WH6	4.40 x 3.57	111.8 x 90.7	0.2	5.0	**C2WH6**			
CWD4WH6	5.33 x 4.58	135.3 x 115.7	0.2	5.0	**C2WH6**			

For tool information refer to www.panduit.com/tools.



CDLB



CDCLP

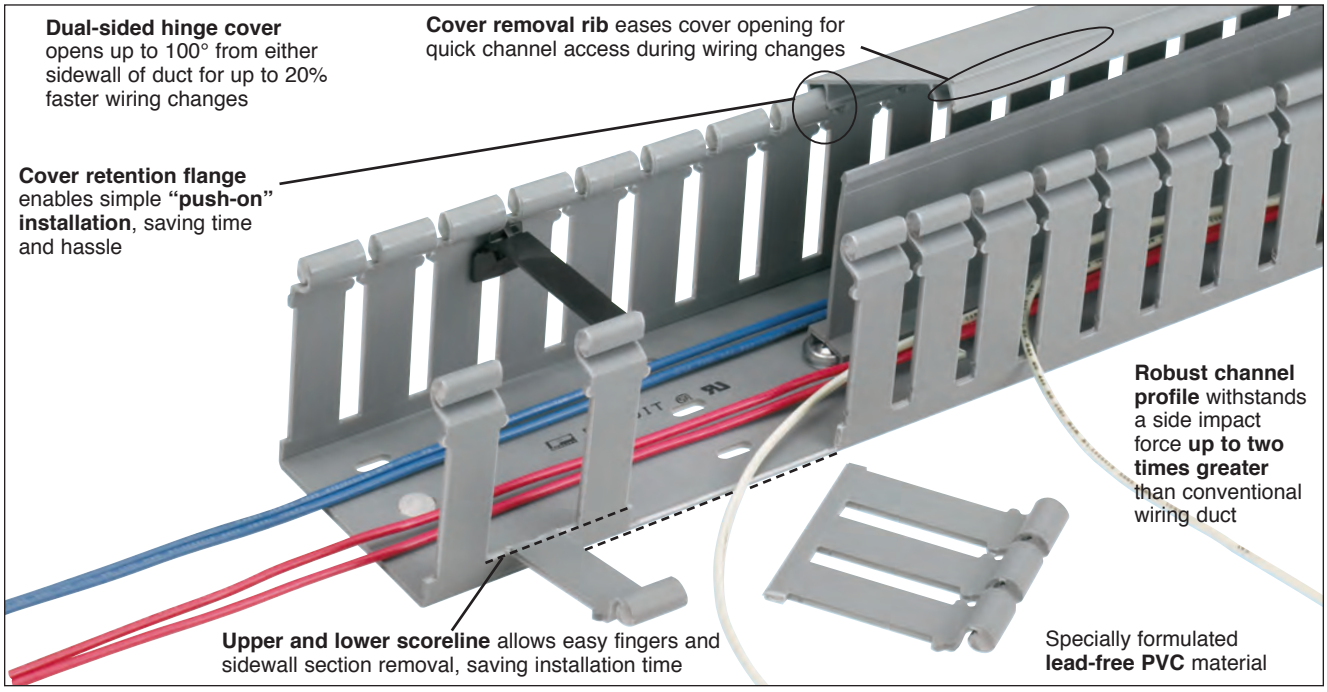
Part Number	Part Description	Fastener Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Quick Mount Clips				
CDLB3	L-bracket with quick mounting clip for installing CWD3 to back panel only.	#10-32 x 1/4 (user supplied)	16	—
CDLB4	L-bracket with quick mounting clip for installing CWD4 to back panel only.			
CDCLP2	Quick mounting clip for installing CWD2 corner wiring duct.			
CDCLP3	Quick mounting clip for installing CWD3 corner wiring duct.			
CDCLP4	Quick mounting clip for installing CWD4 corner wiring duct.			

4 brackets are needed for each 6' of corner wiring duct
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® Type H and HN Hinged Cover Wiring Duct

Available in eight sizes from 1.5" x 2" up to 4" x 4" in light gray, black, and white colors.

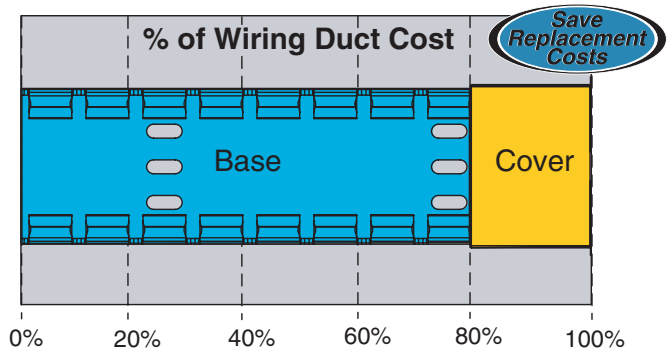


Labor Savings

- By avoiding the time and hassle in removing and replacing covers, simple wiring changes can be made up to **20% faster** compared to conventional wiring duct installations*

Avoid Cover Replacement Costs

- Covers represent 20% of the cost of the wiring duct purchase
- Misplaced covers are a common occurrence after years of use
- Not needing to remove covers during maintenance ensures **better aesthetics and safety** and **avoids the cost to replace lost covers**

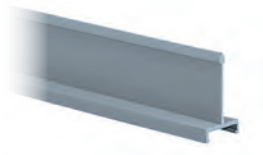




Panduct® Wire Retainers

Contain wiring when duct cover is opened. Wire retainers snap easily between duct fingers.

(see page C1.31)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)

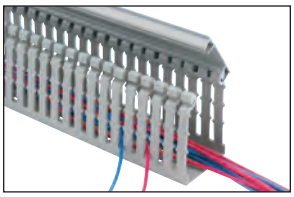
*Based on mock panel installations of type H hinged cover wiring duct and other commonly available wiring ducts adding a single component with four wires.

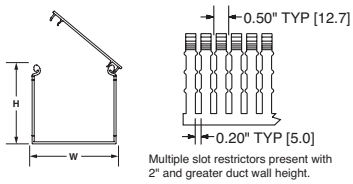
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type HN Hinged Cover Narrow Slot Wiring Duct

- Narrow slot/finger design provides excellent wire management with smaller wire diameters and high-density components such as terminal blocks, input/output devices, and other hardware
- Material: Lead-free PVC
- UL Recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6 feet



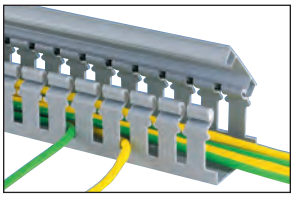


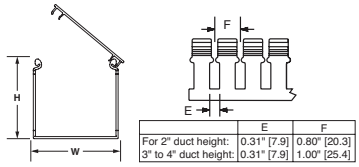
Base Part Number	Duct Size W x H*		Slot Width		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm	In.	mm				
HN1.5X2LG6	1.75 x 1.98	44.5 x 50.3	0.20	5.0	HC1.5LG6	6	120	120
HN1.5X3LG6	1.75 x 3.06	44.5 x 77.7	0.20	5.0	HC1.5LG6			
HN2X2LG6	2.17 x 1.98	55.1 x 50.3	0.20	5.0	HC2LG6			
HN2X3LG6	2.17 x 3.06	55.1 x 77.7	0.20	5.0	HC2LG6	6	60	120
HN2X4LG6	2.17 x 4.10	55.1 x 104.1	0.20	5.0	HC2LG6			
HN3X3LG6	3.25 x 3.06	82.6 x 77.7	0.20	5.0	HC3LG6			
HN3X4LG6	3.25 x 4.10	82.6 x 104.1	0.20	5.0	HC3LG6			
HN4X4LG6	4.25 x 4.10	108.0 x 104.1	0.20	5.0	HC4LG6	6	60	60

Part Number shown for LG (Light Gray). Available in WH (White).
Base and cover sold separately.
*"H" dimension includes duct and cover.
For tool information refer to www.panduct.com/tools.

Panduct® Type H Hinged Cover Wide Slot Wiring Duct

- Wide slot/finger design provides excellent wire management in general purpose applications and is compatible with a wide range of wire sizes and component types
- Material: Lead-free PVC
- Rated for continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with standard mounting holes
- Base and cover length is 6 feet





	E	F
For 2" duct height:	0.31" [7.9]	0.80" [20.3]
3" to 4" duct height:	0.31" [7.9]	1.00" [25.4]

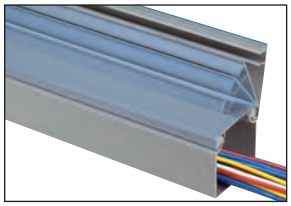
Base Part Number	Duct Size W x H*		Slot Width		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm	In.	mm				
H1.5X2LG6	1.75 x 1.98	44.5 x 50.3	0.31	7.9	HC1.5LG6	6	120	120
H1.5X3LG6	1.75 x 3.06	44.5 x 77.7	0.31	7.9	HC1.5LG6			
H2X2LG6	2.17 x 1.98	55.1 x 50.3	0.31	7.9	HC2LG6			
H2X3LG6	2.17 x 3.06	55.1 x 77.7	0.31	7.9	HC2LG6	6	60	120
H2X4LG6	2.17 x 4.10	55.1 x 104.1	0.31	7.9	HC2LG6			
H3X3LG6	3.25 x 3.06	82.6 x 77.7	0.31	7.9	HC3LG6			
H3X4LG6	3.25 x 4.10	82.6 x 104.1	0.31	7.9	HC3LG6			
H4X4LG6	4.25 x 4.10	108.0 x 104.1	0.31	7.9	HC4LG6	6	60	60

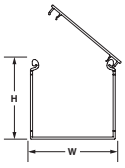
Part Number shown for LG (Light Gray). Available in BL (Black) and WH (White).
Base and cover sold separately.
*"H" dimension includes duct and cover.
For tool information refer to www.panduct.com/tools.

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Panduct® Type HS Hinged Cover Solid Wall Wiring Duct

- Solid wall wiring duct conceals and protects wiring in continuous runs such as in low-voltage cord management applications between control panel stations in conveyor systems
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Supplied without mounting holes
- Base and cover length is 6 feet
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material





Base Part Number	Duct Size W x H*		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm				
HS1.5X2LG6NM	1.75 x 1.98	44.5 x 50.3	**HC1.5LG6**	6	120	120
HS1.5X3LG6NM	1.75 x 3.06	44.5 x 77.7	**HC1.5LG6**			60
HS2X2LG6NM	2.17 x 1.98	55.1 x 50.3	**HC2LG6**			120
HS2X3LG6NM	2.17 x 3.06	55.1 x 77.7	**HC2LG6**	6	60	120
HS2X4LG6NM	2.17 x 4.10	55.1 x 104.1	**HC2LG6**			
HS3X3LG6NM	3.25 x 3.06	82.6 x 77.7	**HC3LG6**			
HS3X4LG6NM	3.25 x 4.10	82.6 x 104.1	**HC3LG6**			
HS4X4LG6NM	4.25 x 4.10	108.0 x 104.1	**HC4LG6**	6	60	60

Part Number shown for LG (Light Gray). For BL (Black) and WH (White) colors see color selection guide, page C1.50.
Base and cover sold separately.
*"H" dimension includes duct and cover.
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

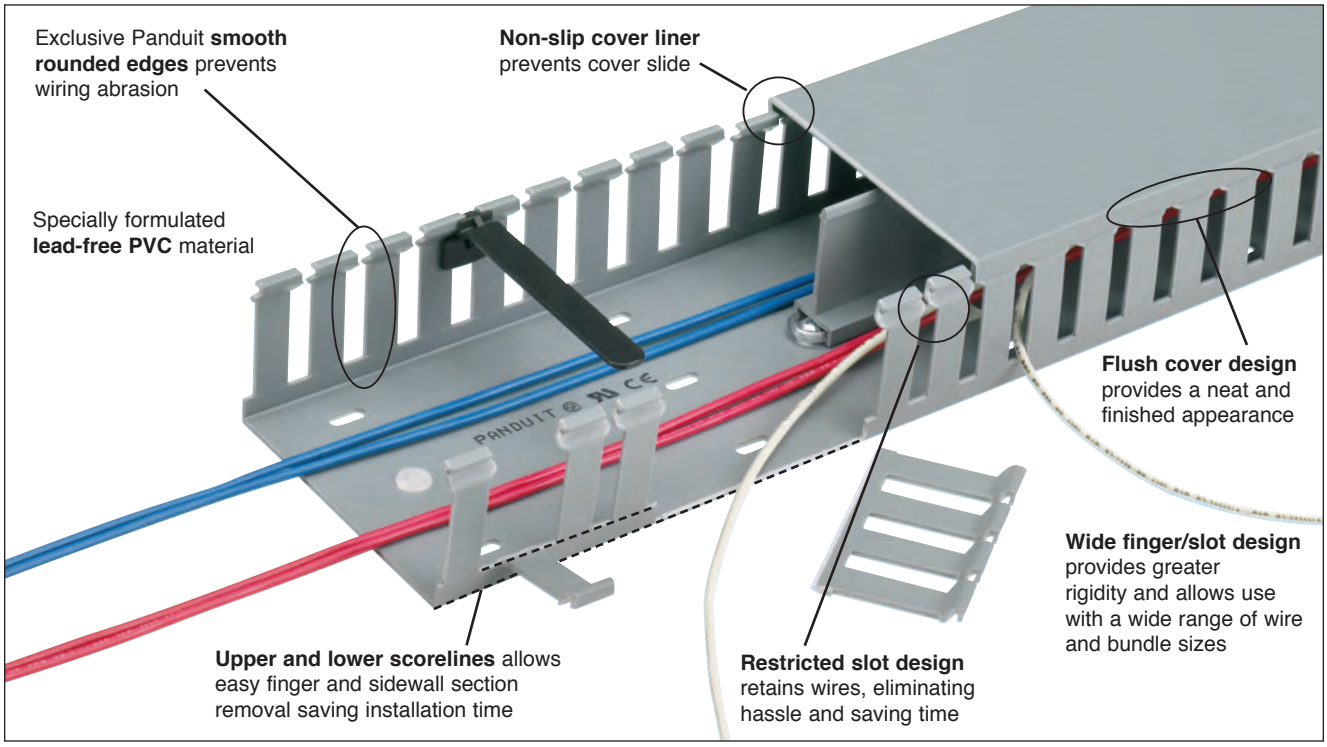
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Notes

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® Type G Wide Slot Wiring Duct

Available in 35 sizes from 0.5" x 0.5" up to 6" x 4" in a variety of colors.

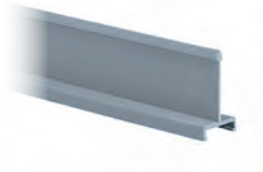




Panduct® Wire Retainers

Contain wiring when duct cover is opened. Wire retainers snap easily between duct fingers.

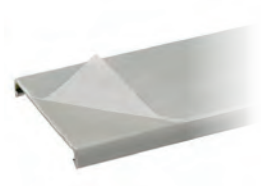
(see page C1.31)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)



Panduct® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.

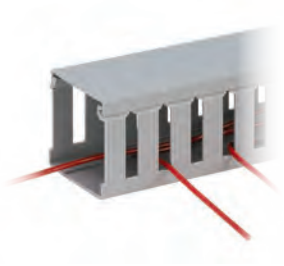
(see page C1.15)

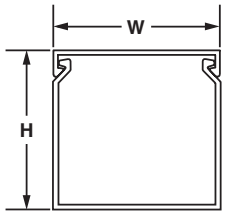
Order number of pieces required, in multiples of Standard Package Quantity.

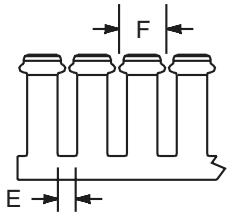
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Panduct® Type G Wide Slot Wiring Duct

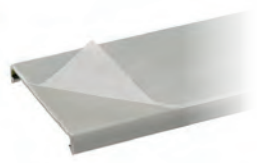
- Wide slot/finger design provides greater sidewall rigidity and can be used with a wide range of wire bundle sizes
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6 feet







	E	F
For 0.5" duct height:	0.37" [9.4]	0.80" [20.3]
0.75" to 2" duct height:	0.31" [7.9]	0.80" [20.3]
3" to 4" duct height:	0.31" [7.9]	1.00" [25.4]
5" duct height:	0.38" [9.4]	1.33" [33.8]



To order cover with protective film add "-F" to part number. 6" cover not available with film.

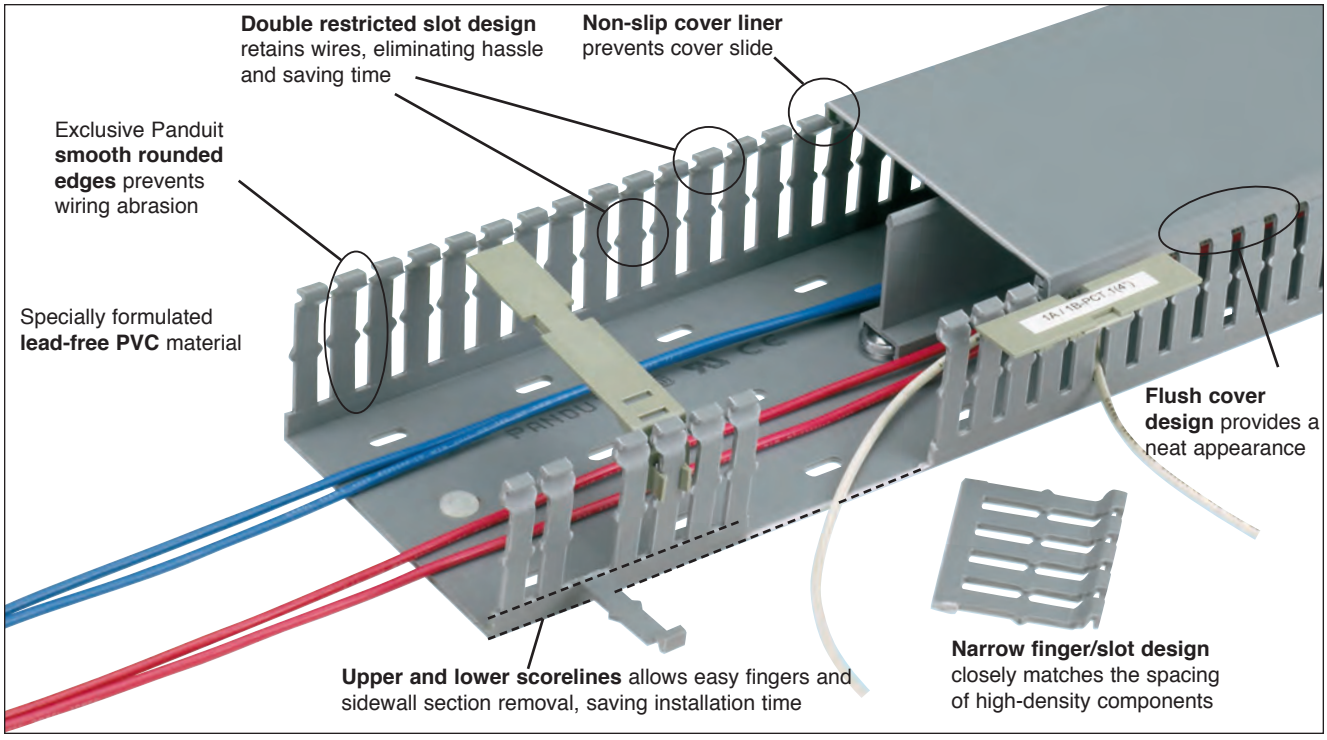
Base Part Number	Duct Size W x H* In.	Duct Size W x H* mm	Slot Width In.	Slot Width mm	Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
G.5X.5LG6	0.69 x 0.60	17.5 x 15.2	0.38	9.7	C.5LG6	6	120	120
G.5X1LG6	0.69 x 1.06	17.5 x 26.9	0.31	7.9	C.5LG6			
G.5X2LG6	0.69 x 2.03	17.5 x 51.6	0.31	7.9	C.5LG6			
G.5X4LG6	0.69 x 4.10	17.5 x 104.1	0.31	7.9	C.5LG6			
G.75X.75LG6	0.92 x 0.82	23.6 x 20.8	0.31	7.9	C.75LG6			
G.75X1LG6	0.92 x 1.06	23.6 x 26.9	0.31	7.9	C.75LG6			
G.75X1.5LG6	0.92 x 1.57	23.6 x 39.9	0.31	7.9	C.75LG6			
G.75X2LG6	0.94 x 2.03	23.6 x 51.7	0.31	7.9	C.75LG6			
G1X1LG6	1.25 x 1.12	32.0 x 28.4	0.31	7.9	C1LG6			
G1X1.5LG6	1.25 x 1.62	32.0 x 41.1	0.31	7.9	C1LG6			
G1X2LG6	1.25 x 2.12	32.0 x 53.8	0.31	7.9	C1LG6			
G1X3LG6	1.25 x 3.12	32.0 x 79.2	0.31	7.9	C1LG6			
G1X4LG6	1.25 x 4.10	32.0 x 104.1	0.31	7.9	C1LG6	6	60	120
G1.5X1LG6	1.75 x 1.12	44.5 x 28.4	0.31	7.9	C1.5LG6	6	120	120
G1.5X1.5LG6	1.75 x 1.62	44.5 x 41.1	0.31	7.9	C1.5LG6			
G1.5X2LG6	1.75 x 2.12	44.5 x 53.8	0.31	7.9	C1.5LG6			
G1.5X3LG6	1.75 x 3.12	44.5 x 79.2	0.31	7.9	C1.5LG6			
G1.5X4LG6	1.74 x 4.10	44.5 x 104.1	0.31	7.9	C1.5LG6	6	60	120
G2X1LG6	2.25 x 1.12	57.2 x 28.4	0.31	7.9	C2LG6	6	120	120
G2X1.5LG6	2.25 x 1.62	57.2 x 41.1	0.31	7.9	C2LG6			
G2X2LG6	2.25 x 2.12	57.2 x 53.8	0.31	7.9	C2LG6			
G2X3LG6	2.25 x 3.12	57.2 x 79.2	0.31	7.9	C2LG6	6	60	120
G2X4LG6	2.25 x 4.10	57.2 x 104.1	0.31	7.9	C2LG6			
G2X5LG6	2.25 x 5.10	57.2 x 129.5	0.38	9.7	C2LG6			
G2.5X3LG6	2.75 x 3.12	69.9 x 79.2	0.31	7.9	C2.5LG6	6	120	120
G3X1LG6	3.25 x 1.12	82.6 x 28.4	0.31	7.9	C3LG6			
G3X2LG6	3.25 x 2.12	82.6 x 53.8	0.31	7.9	C3LG6			
G3X3LG6	3.25 x 3.12	82.6 x 79.2	0.31	7.9	C3LG6	6	60	120
G3X4LG6	3.25 x 4.10	82.6 x 104.1	0.31	7.9	C3LG6			
G3X5LG6	3.25 x 5.10	82.6 x 129.5	0.38	9.7	C3LG6			
G4X1.5LG6	4.25 x 1.62	108.0 x 41.1	0.31	7.9	C4LG6	6	120	120
G4X2LG6	4.25 x 2.12	108.0 x 53.8	0.31	7.9	C4LG6	6	60	120
G4X3LG6	4.25 x 3.12	108.0 x 79.2	0.31	7.9	C4LG6			
G4X4LG6	4.25 x 4.10	108.0 x 104.1	0.31	7.9	C4LG6			
G4X5LG6	4.25 x 5.10	108.0 x 129.5	0.38	9.7	C4LG6			
G6X4LG6	6.23 x 4.15	158.8 x 105.4	0.31	7.9	C6LG6			

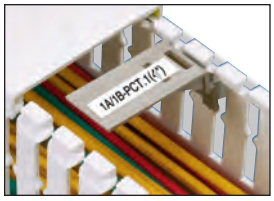
Part number shown for LG (Light Gray). For other color availability see color selection guide, page C1.50.
Base and cover sold separately.
*"H" dimension includes duct and cover.
Some sizes and colors are available with adhesive tape. See page C1.36 for availability.
For tool information refer to www.panduit.com/tools.

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Features and Benefits – Panduct® Type F Narrow Slot Wiring Duct

Available in 31 sizes from 0.5" x 0.5" up to 6" x 4" in a variety of colors.





Panduct® Wire Retainers for Type F Wiring Duct

Contain wiring when duct cover is opened. Wire retainers snap easily between duct fingers.

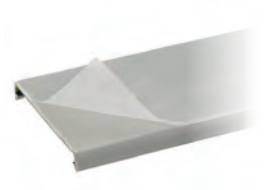
(see page C1.32)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)



Panduct® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.

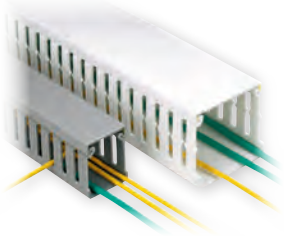
(see page C1.17)

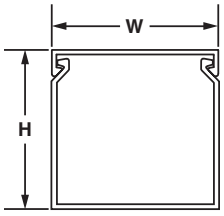
Order number of pieces required, in multiples of Standard Package Quantity.

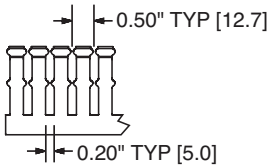
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Panduct® Type F Narrow Slot Wiring Duct

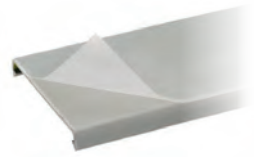
- Narrow slot/finger design provides more slots to fit the spacing of high-density terminal blocks and other hardware
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6 feet







Multiple slot restrictors present with 2" and greater duct wall height.



To order cover with protective film add “-F” to part number. 6" cover not available with film.

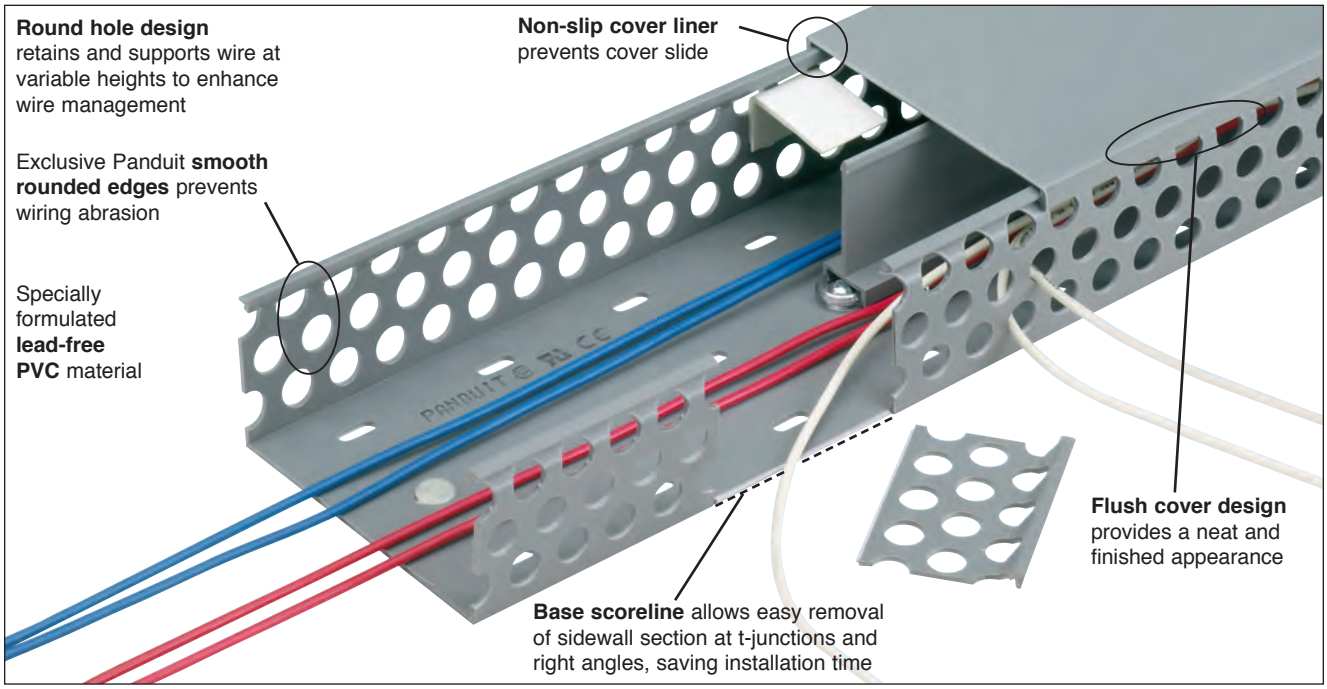
Part Number	Duct Size (W x H)*		Slot Width		Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
	In.	mm	In.	mm				
F.5X.5LG6	0.69 x 0.60	17.5 x 15.2	0.20	5.0	C.5LG6	6	120	120
F.5X1LG6	0.69 x 1.06	17.5 x 26.9	0.20	5.0	C.5LG6			
F.75X.75LG6	0.94 x 0.82	23.6 x 20.9	0.20	5.0	C.75LG6			
F.75X1.5LG6	0.94 x 1.57	23.6 x 39.9	0.20	5.0	C.75LG6			
F1X1LG6	1.25 x 1.13	32.0 x 28.7	0.20	5.0	C1LG6			
F1X1.5LG6	1.25 x 1.62	32.0 x 41.1	0.20	5.0	C1LG6			
F1X2LG6	1.25 x 2.12	32.0 x 53.8	0.20	5.0	C1LG6			
F1X3LG6	1.25 x 3.13	32.0 x 79.4	0.20	5.0	C1LG6			
F1X4LG6	1.25 x 4.10	32.0 x 104.1	0.20	5.0	C1LG6	6	60	120
F1.5X1LG6	1.75 x 1.12	44.5 x 28.4	0.20	5.0	C1.5LG6	6	120	120
F1.5X1.5LG6	1.75 x 1.62	44.5 x 41.1	0.20	5.0	C1.5LG6			
F1.5X2LG6	1.75 x 2.12	44.5 x 53.8	0.20	5.0	C1.5LG6			
F1.5X3LG6	1.75 x 3.12	44.5 x 79.2	0.20	5.0	C1.5LG6			
F1.5X4LG6	1.75 x 4.10	44.5 x 104.1	0.20	5.0	C1.5LG6	6	60	120
F2X1LG6	2.25 x 1.12	57.2 x 28.4	0.20	5.0	C2LG6	6	120	120
F2X1.5LG6	2.25 x 1.62	57.2 x 41.1	0.20	5.0	C2LG6			
F2X2LG6	2.25 x 2.12	57.2 x 53.8	0.20	5.0	C2LG6			
F2X3LG6	2.25 x 3.14	57.2 x 79.8	0.20	5.0	C2LG6	6	60	120
F2X4LG6	2.25 x 4.10	57.2 x 104.1	0.20	5.0	C2LG6			
F2X5LG6	2.25 x 5.10	57.2 x 129.5	0.20	5.0	C2LG6			
F2.5X3LG6	2.75 x 3.12	69.9 x 79.2	0.20	5.0	C2.5LG6	6	120	120
F3X1LG6	3.25 x 1.12	82.6 x 28.4	0.20	5.0	C3LG6			
F3X2LG6	3.25 x 2.12	82.6 x 53.8	0.20	5.0	C3LG6			
F3X3LG6	3.25 x 3.13	82.6 x 78.7	0.20	5.0	C3LG6	6	60	120
F3X4LG6	3.25 x 4.10	82.6 x 104.1	0.20	5.0	C3LG6			
F3X5LG6	3.25 x 5.10	82.6 x 129.5	0.20	5.0	C3LG6			
F4X2LG6	4.25 x 2.12	108.0 x 53.8	0.20	5.0	C4LG6			
F4X3LG6	4.25 x 3.12	108.0 x 79.2	0.20	5.0	C4LG6			
F4X4LG6	4.25 x 4.10	108.0 x 104.1	0.20	5.0	C4LG6			
F4X5LG6	4.25 x 5.10	108.0 x 129.5	0.20	5.0	C4LG6			
F6X4LG6	6.25 x 4.15	158.8 x 105.4	0.20	5.0	C6LG6			

Part number shown for LG (Light Gray). For other color availability see color selection guide, page C1.50.
Base and cover sold separately.
*“H” dimension includes duct and cover.
Some sizes and colors are available with adhesive tape. See page C1.36 for availability.
For tool information refer to www.panduit.com/tools.

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Features and Benefits – Panduct® Flush Cover Type D Round Hole Wiring Duct

Available in sixteen sizes from 1" x 2" up to 4" x 4" in a variety of colors.

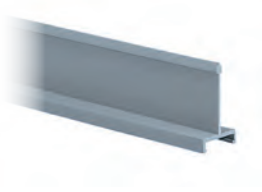




Panduct® Wire Retainers for Type D Wiring Duct

Contain wiring when duct cover is opened. Wire retainers mount onto walls with pressure sensitive adhesive.

(see page C1.31)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)



Panduct® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.

(see page C1.19)

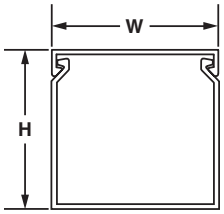
Order number of pieces required, in multiples of Standard Package Quantity.

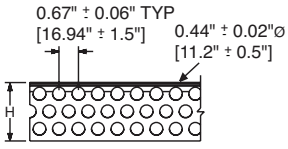
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Panduct® Flush Cover Type D Round Hole Wiring Duct

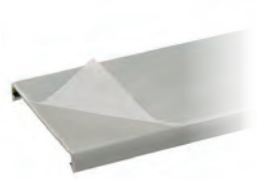
- Round hole design has multiple rows of holes to retain and support wire at variable heights and positions
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6 feet







For 2" duct height = 3 rows of holes
3" duct height = 4 rows of holes
4" duct height = 6 rows of holes



To order cover with protective film add "-F" to part number. 6" cover not available with film.

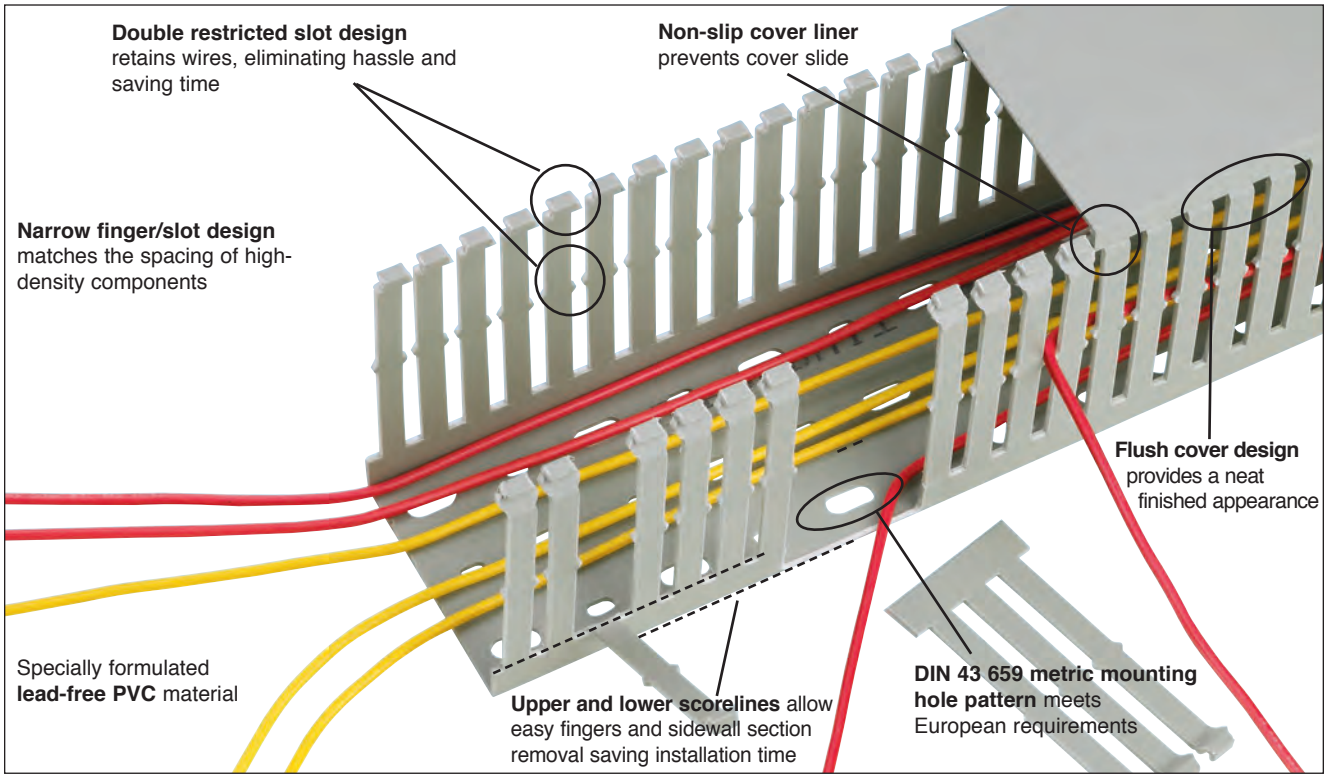
Part Number	Duct Size (W x H)* In.	Duct Size (W x H)* mm	Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
D1X2LG6	1.25 x 2.12	32.0 x 53.8	**C1LG6**	6	120	120
D1X3LG6	1.25 x 3.12	32.0 x 79.2	**C1LG6**			
D1X4LG6	1.25 x 4.10	32.0 x 104.1	**C1LG6**			
D1.5X2LG6	1.75 x 2.12	44.5 x 53.8	**C1.5LG6**			
D1.5X3LG6	1.75 x 3.12	44.5 x 79.2	**C1.5LG6**			
D1.5X4LG6	1.75 x 4.10	44.5 x 104.1	**C1.5LG6**	6	60	120
D2X2LG6	2.25 x 2.14	57.2 x 54.3	**C2LG6**	6	120	120
D2X3LG6	2.25 x 3.12	57.2 x 79.2	**C2LG6**	6	60	120
D2X4LG6	2.25 x 4.10	57.2 x 104.1	**C2LG6**			
D2.5X3LG6	2.75 x 3.12	69.9 x 79.2	**C2.5LG6**	6	120	120
D3X2LG6	3.25 x 2.12	82.6 x 53.8	**C3LG6**			
D3X3LG6	3.25 x 3.12	82.6 x 79.2	**C3LG6**	6	60	120
D3X4LG6	3.25 x 4.10	82.6 x 104.1	**C3LG6**			
D4X2LG6	4.25 x 2.12	108.0 x 53.8	**C4LG6**			
D4X3LG6	4.25 x 3.12	108.0 x 79.2	**C4LG6**			
D4X4LG6	4.25 x 4.10	108.0 x 104.1	**C4LG6**			

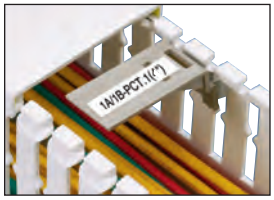
Part number shown for LG (Light Gray). For other color availability see color selection guide, page C1.50.
Base and cover sold separately.
*"H" dimension includes duct and cover.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® Type MC Metric Narrow Slot Wiring Duct

Available in 20 sizes from 25mm x 25mm up to 100mm x 100mm in international gray and white colors.

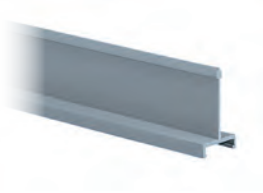




Panduct® Wire Retainers for Type MC Wiring Duct

Contain wiring when duct cover is opened. Wire retainers snap easily between duct fingers.

(see page C1.32)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

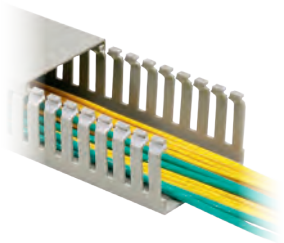
(see page C1.30)

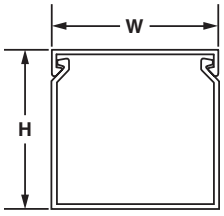
Order number of pieces required, in multiples of Standard Package Quantity.

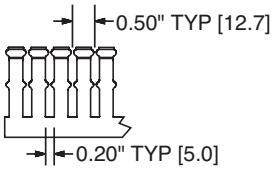
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type MC Metric Narrow Slot Wiring Duct

- CE compliant and metric sizing for control panels intended for European applications
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with DIN 43 659 mounting holes
- Duct and cover packaged together in 2m lengths







Multiple slot restrictors present with 62mm and greater duct wall height.

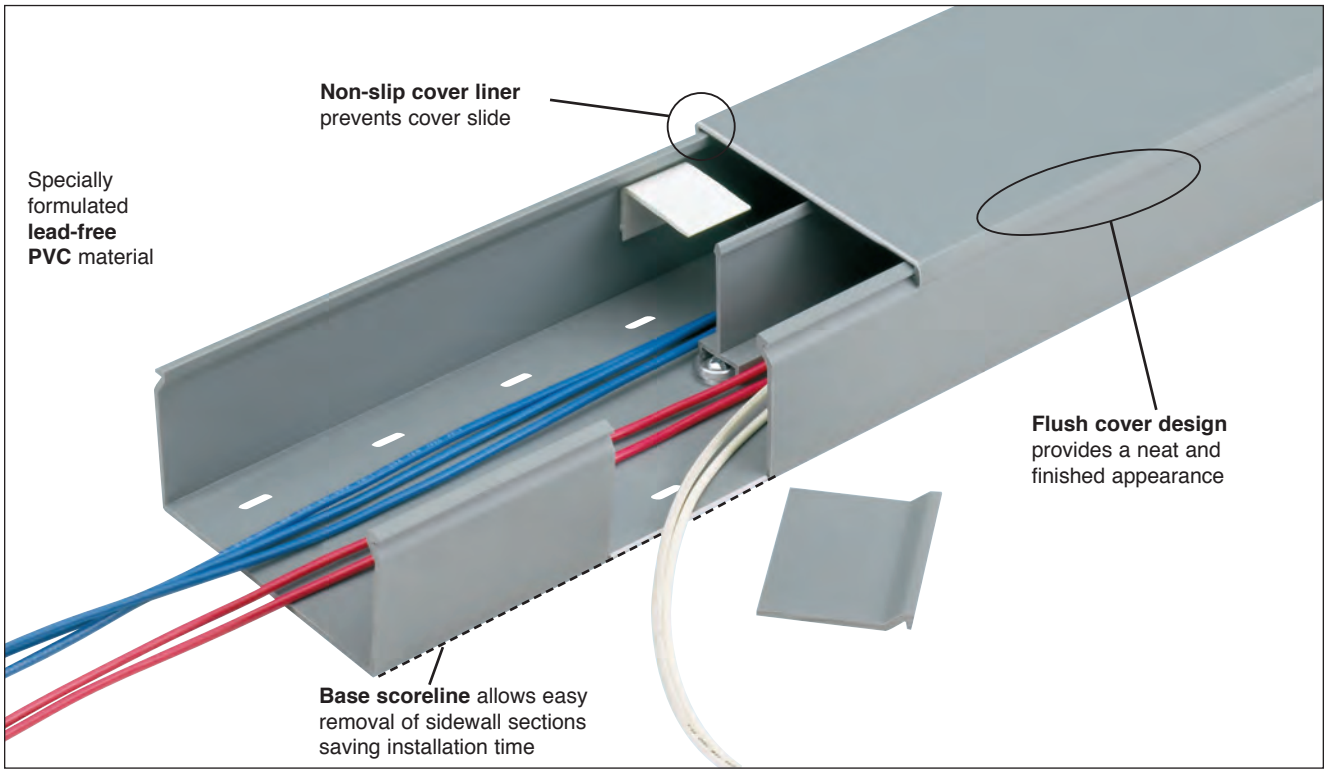
Base and CoverPart Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Pkg. Qty. (m)	Replacement Cover Std. Pkg. Qty. (m)
	mm	In.	mm	In.			
MC25X25IG2	24.6 x 23.6	0.97 x 0.93	5.0	0.20	**C25IG2**	20	20
MC25X37IG2	24.6 x 35.8	0.97 x 1.41	5.0	0.20	**C25IG2**		
MC25X50IG2	24.6 x 47.8	0.97 x 1.88	5.0	0.20	**C25IG2**		
MC25X62IG2	24.6 x 59.7	0.97 x 2.35	5.0	0.20	**C25IG2**		
MC25X75IG2	24.6 x 72.4	0.97 x 2.85	5.0	0.20	**C25IG2**		
MC37X37IG2	37.4 x 35.8	1.47 x 1.41	5.0	0.20	**C37IG2**		
MC37X50IG2	37.1 x 47.8	1.46 x 1.88	5.0	0.20	**C37IG2**		
MC37X62IG2	37.1 x 59.7	1.46 x 2.35	5.0	0.20	**C37IG2**		
MC37X75IG2	37.1 x 72.4	1.46 x 2.85	5.0	0.20	**C37IG2**		
MC50X50IG2	49.5 x 47.8	1.95 x 1.89	5.0	0.20	**C50IG2**		
MC50X75IG2	49.5 x 72.4	1.95 x 2.85	5.0	0.20	**C50IG2**	10	20
MC50X100IG2	49.5 x 97.8	1.95 x 3.85	5.0	0.20	**C50IG2**		
MC62X62IG2	62.0 x 59.7	2.44 x 2.35	5.0	0.20	**C62IG2**	20	20
MC75X50IG2	74.7 x 48.0	2.94 x 1.89	5.0	0.20	**C75IG2**		
MC75X62IG2	74.7 x 59.7	2.94 x 2.35	5.0	0.20	**C75IG2**		
MC75X75IG2	74.7 x 72.4	2.94 x 2.85	5.0	0.20	**C75IG2**	10	20
MC75X100IG2	74.7 x 97.8	2.94 x 3.85	5.0	0.20	**C75IG2**		
MC100X50IG2	99.6 x 48.0	3.92 x 1.89	5.0	0.20	**C100IG2**		
MC100X75IG2	99.6 x 72.4	3.92 x 2.85	5.0	0.20	**C100IG2**		
MC100X100IG2	99.6 x 97.8	3.92 x 3.85	5.0	0.20	**C100IG2**		

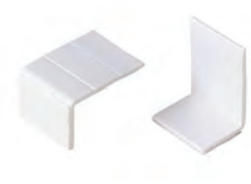
Available in IG (International Gray) and WH (White) colors.
Base and cover sold together.
*"H" dimension includes duct and cover.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Features and Benefits – Panduct® Type FS Solid Wall Wiring Duct

Available in 27 sizes from 0.5" x 0.5" up to 6" x 4" in a variety of colors.

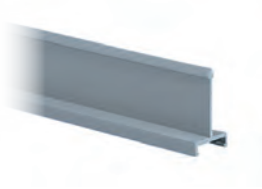




Panduct® Wire Retainers for Type FS Solid Wall Wiring Duct

Contain wiring when duct cover is opened. Wire retainers mount onto walls with pressure sensitive adhesive.

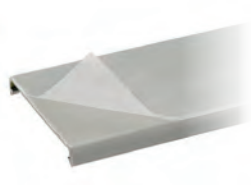
(see page C1.31)



Panduct® Divider Wall

Create separate wiring channels within the wiring duct base. Available in solid or slotted wall styles.

(see page C1.30)



Panduct® Type C Cover with Protective Film

Reduces scrap and labor costs by protecting the surface during storage, handling, and installation.

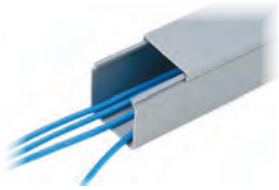
(see page C1.23)

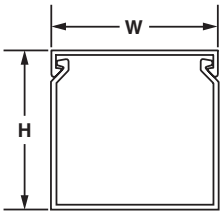
Order number of pieces required, in multiples of Standard Package Quantity.

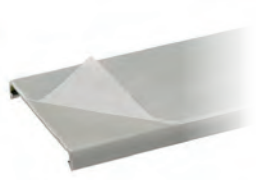
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type FS Solid Wall Wiring Duct

- Solid wall design fully encloses cables providing maximum protection and aesthetics
- Material: Lead-free PVC
- UL recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Base and cover length is 6 feet
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material







To order cover with protective film add "-F" to part number. 6" cover not available with film.

	Base Part Number	Duct Size (W x H)* In.	Duct Size (W x H)* mm	Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
>	FS.5X.5LG6NM	0.69 x 0.60	17.5 x 15.2	C.5LG6			
>	FS.5X1LG6NM	0.69 x 1.06	17.5 x 26.9	C.5LG6			
	FS.75X.75LG6NM	0.93 x 0.82	23.6 x 20.8	C.75LG6			
>	FS1X1LG6NM	1.26 x 1.12	32.0 x 28.4	C1LG6	6	120	120
>	FS1X1.5LG6NM	1.26 x 1.62	32.0 x 41.1	C1LG6			
	FS1X2LG6NM	1.26 x 2.12	32.0 x 53.8	C1LG6			
	FS1X3LG6NM	1.26 x 3.12	32.0 x 79.2	C1LG6			
	FS1X4LG6NM	1.26 x 4.10	32.0 x 104.1	C1LG6	6	60	120
>	FS1.5X1LG6NM	1.75 x 1.12	44.5 x 28.4	C1.5LG6			
>	FS1.5X1.5LG6NM	1.75 x 1.62	44.5 x 41.1	C1.5LG6			
>	FS1.5X2LG6NM	1.75 x 2.12	44.5 x 53.8	C1.5LG6			
>	FS1.5X3LG6NM	1.75 x 3.12	44.5 x 79.2	C1.5LG6	6	120	120
>	FS2X1LG6NM	2.25 x 1.14	57.2 x 29.0	C2LG6			
>	FS2X1.5LG6NM	2.25 x 1.64	57.2 x 41.7	C2LG6			
>	FS2X2LG6NM	2.25 x 2.14	57.2 x 54.4	C2LG6			
>	FS2X3LG6NM	2.25 x 3.14	57.2 x 79.8	C2LG6			
>	FS2X4LG6NM	2.25 x 4.12	57.2 x 104.6	C2LG6	6	60	120
>	FS3X1LG6NM	3.25 x 1.12	82.6 x 28.4	C3LG6			
>	FS3X2LG6NM	3.25 x 2.12	82.6 x 53.8	C3LG6	6	120	120
>	FS3X3LG6NM	3.25 x 3.12	82.6 x 79.2	C3LG6			
	FS3X4LG6NM	3.25 x 4.10	82.6 x 104.1	C3LG6			
	FS3X5LG6NM	3.25 x 5.10	82.6 x 129.5	C3LG6	6	60	120
>	FS4X1.5LG6	4.25 x 1.62	108.0 x 41.1	C4LG6	6	120	120
>	FS4X2LG6NM	4.25 x 2.12	108.0 x 53.8	C4LG6			
>	FS4X3LG6NM	4.25 x 3.12	108.0 x 79.2	C4LG6			
>	FS4X4LG6NM	4.25 x 4.10	108.0 x 104.1	C4LG6	6	60	120
>	FS4X5LG6NM	4.25 x 5.10	108.0 x 129.5	C4LG6			
>	FS6X4LG6NM	6.25 x 4.15	158.8 x 105.4	C6LG6			

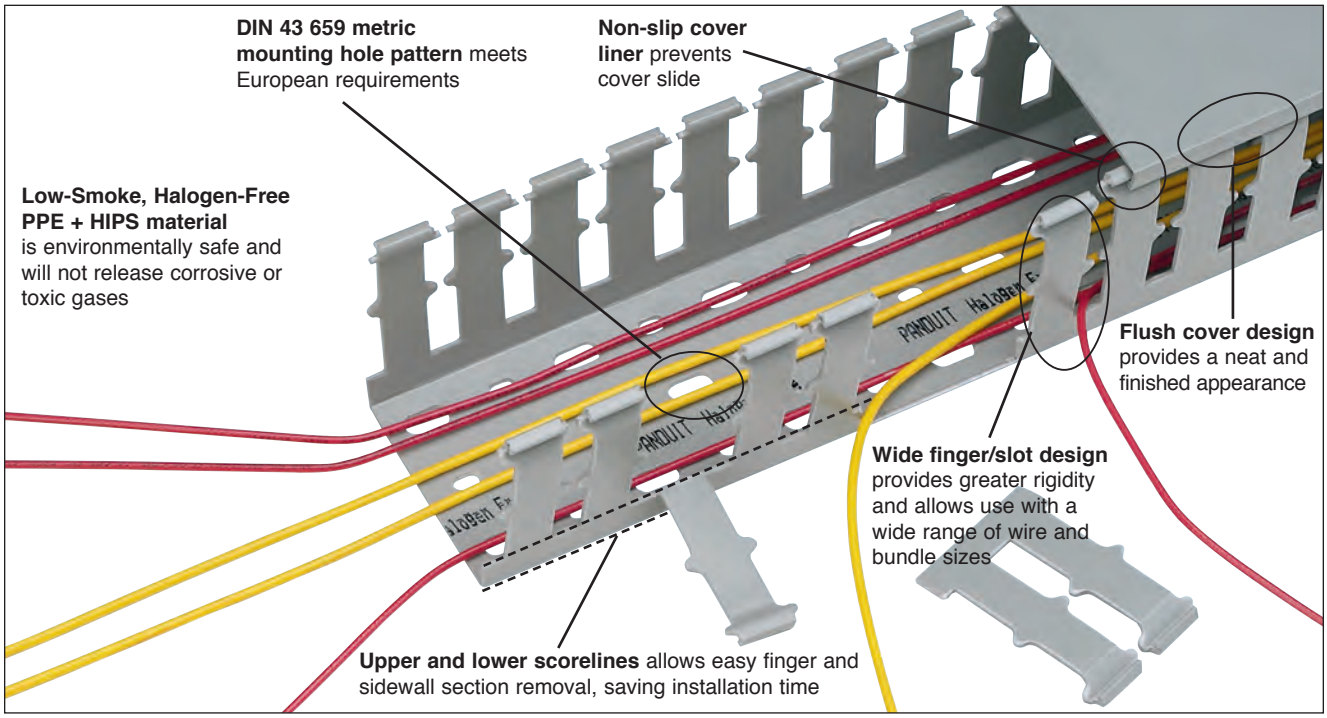
>Parts are available with mounting holes. To order with mounting holes, remove NM from part number.
Part Number shown for LG (Light Gray). For other color availability see Color Selection Guide, page C1.50.
Base and cover sold separately.
*"H" dimension includes duct and cover.
Some sizes and colors are available with adhesive tape. See page C1.36 for availability.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Wiring Duct for Special Environments including Mass Transit

Features and Benefits - Panduct Type TNC Low-Smoke, Halogen-Free Metric Wiring Duct

Available in eight sizes from 25mm x 37mm up to 100mm x 75mm in light gray.



Panduct® Type TNC Low-smoke, Halogen-free Solid Divider Wall

Create separate channels within the wiring duct base.

(see page C1.25)

TNC Wiring Duct Material (PPE+HIPS)		
Properties	**General**	**Test Method**
Specific Gravity	1.11 g/cc	ASTM D 792
Heat Deflection Temperature @264 psi	105°C 221°F	ASTM D 648
Flame/Smoke/Toxicity		
Smoke Density (Flaming) @ 1.5 and 4 min.	Ds @ 1.5 min = 16 Ds @ 4.0 min = 66	ASTM E 662
Flammability Class	V-0	UL94
Flame Spread Index	Is =15	ASTM E 162
Total Heat Release	66.21 MJ/m²	ASTM E1354
Low Toxicity	Yes	BSS 7239
Mechanical		
Tensile Strength at Yield	8,100 psi	ASTM D 638
Tensile Modulus	355,000 psi	ASTM D 638
Flexural Strength at Yield	11,500 psi	ASTM D 790
Flexural Modulus	340,000 psi	ASTM D 790
Notched Izod Impact Strength @ 23°C (73°F)	3.7 ft-lb/in.	ASTM D 256

PPE + HIPS (Polyphenylene Ether + High Impact Polystyrene)

Rail Standard Compliance/Ratings		
NFPA 130 (U.S. Standard for Fixed Guideway Transit and Passenger Rail Systems)	Pass (Is<35, Ds1.5<100, Ds4<200)	ASTM E 162; ASTM E 662
EN 45545-2 (EU Standard: Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components	HL2 – R22 (Interior) HL2 – R23 (Exterior)	EN 45545-2 BS EN ISO 4589-2 NF X 70-100 ISO 5659-2
DIN 5510 (Preventative fire protection in railway vehicles)	Burning class: S-4 Smoke class: SR-2 Dripping class: ST-2	DIN 5510-2; DIN54837
NF F16 101, NF F 16 102 (smoke density, toxicity, glowing filament, oxygen index)	F1/I4	NF X 1-702 NF X 70-100 NF EN 60695-2 NF EN ISO 4589-2
UNIFER Italian Railway Standard	Pass	EN UNI 11925-2 (EN ISO 11925-2)

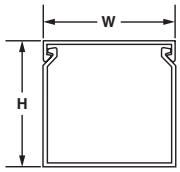
Order number of pieces required, in multiples of Standard Package Quantity.

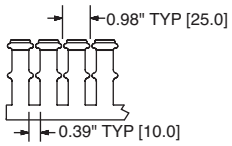
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type TNC Low-Smoke, Halogen-Free Metric Wiring Duct

- Material: Polyphenylen Ether + High Impact Polystyrene (PPE+HIPS)
- Low-Smoke, Halogen-Free is non-toxic, lead-free, and environmentally safe. Will not exibit a high rate of smoke generation or release toxic, corrosive gases in the event of a fire that could endanger public safety or damage sensitive electronics in enclosed environments (passenger rail, oil and gas platforms)
- UL recognized continuous use temperature: 221°F (105°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Meets NFPA 130 and FRA requirements for surface flammability and smoke density.
- Meets a Hazard Level Classification of HL2 per European Standard EN 45545-2 for R22 (Interior).
- Meets a Hazard Level Classification of HL2 per European Standard EN 45545-2 for R23 (Exterior).
- Other Rail Standard Compliances (see page C1.53 for details):
  - DIN 5510-2
  - BSS 7239
  - AFNOR NF F 16 101 and NF F 16 102
  - UNIFER EN UNI 11925-2 (EN ISO 11925-2)







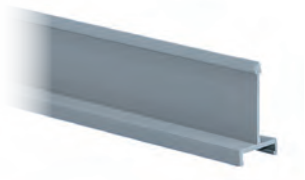
Multiple slot restrictors present with 75mm and greater duct wall height.

Base and Cover Part Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Ctn. Qty. (m)	Replacement Cover Ctn. Qty. (m)
	mm	In.	mm	In.			
TNC25X37LG2	24.6 x 35.8	0.97 x 1.41	10.0	0.39	**TNC25LG2**	20	20
TNC25X75LG2	24.6 x 72.1	0.97 x 2.84	10.0	0.39	**TNC25LG2**		
TNC37X37LG2	37.1 x 35.5	1.46 x 1.40	10.0	0.39	**TNC37LG2**		
TNC37X75LG2	37.1 x 72.4	1.46 X 2.85	10.0	0.39	**TNC37LG2**		
TNC50X50LG2	49.6 x 47.8	1.95 x 1.88	10.0	0.39	**TNC50LG2**		
TNC75X75LG2	74.6 x 72.8	2.94 x 2.86	10.0	0.39	**TNC75LG2**	10	
TNC100X50LG2	99.6 x 47.8	3.92 x1.88	10.0	0.39	**TNC100LG2**		
TNC100X75LG2	99.6 x 72.7	3.92 x 2.86	10.0	0.39	**TNC100LG2**		

Available in LG (Light Gray) only.
Do not allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with the Type TNC wiring duct as it will cause stress cracking. See page C1.51 for a list of chemicals to avoid. Also visit Panduit.com for a list of safe and acceptable lubricants and cleaners that can be used.
"H" dimension includes duct and cover.
For tool information refer to www.panduit.com/tools.

Panduct Type TNC Divider Wall

- TNC solid divider wall can be mounted inside TNC wiring duct to create mulitple channels
- Material: Polyphenylen Ether + High Impact Polystyrene (PPE+HIPS)
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



Part Number	Length (m)	For Nominal Duct Height (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
TNC50D2	2	50	2	40
TNC75D2	2	75		

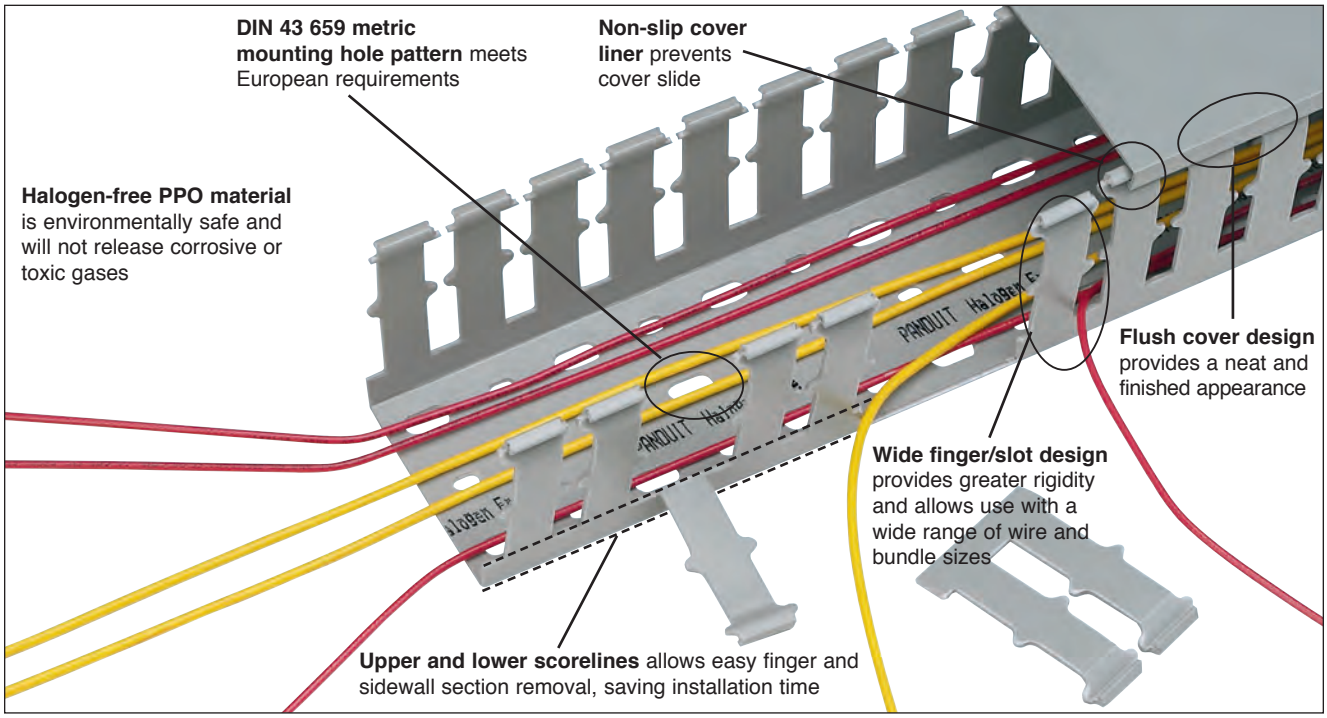
Available in LG (Light Gray) only.
NOTE: Must be used with mounting base DB-C (see page C1.30), which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Wiring Duct for Special Environments

Features and Benefits – Panduct® Type NNC Halogen-Free Metric Wiring Duct

Available in fourteen sizes from 25mm x 25mm up to 100mm x 100mm in light gray and white.





Panduct® Type NNC Halogen-free Solid Divider Wall

Create separate channels within the wiring duct base.

(see page C1.27)

Properties	Halogen-Free PPO Material	Test Method
General		
Specific Gravity	1.09 g/cc	ASTM D 792
Mechanical		
Tensile Strength at Yield	7,700 psi	ASTM D 638
Flexural Strength	11,500 psi	ASTM D 790
Flexural Modulus	340,000 psi	ASTM D 790
Notched Izod Impact @ 23°C (73°F)	5.0 ft. – lbs./In.	ASTM D 256
Heat Deflection Temperature @264 psi	102°C (215°F)	ASTM D 648

Properties	Halogen-Free PPO Material	Test Method
Flammability		
Limited Oxygen Index (LOI)	30	ASTM D 2863
Smoke Density (Flaming) @ 4 min.	534	ASTM E 662
Flammability Class @ 0.060"	V-0	UL94
Halogen Free	Yes	IEC 60754-2
Agency Approvals		
UL Recognized file E147128 CSA Certified file 016446-0-00 CE Compliant: EN 45545-2; HL1 to R R23 (exterior)		

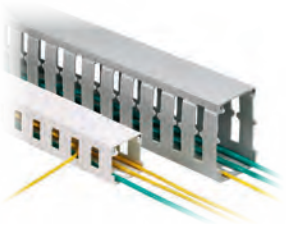
Note: DO NOT allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with Type NNC wiring duct. For a list of recommended lubricants to use with Type NNC wiring duct log on to www.panduit.com.

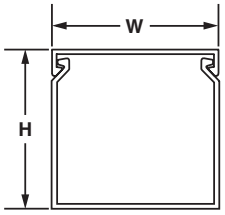
Order number of pieces required, in multiples of Standard Package Quantity.

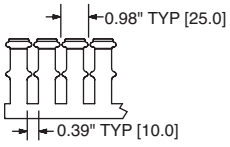
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type NNC Halogen-Free Metric Wiring Duct

- Material: Halogen-free polyphenylene oxide (PPO) material as verified with IEC 60754-2 test method (test on gases evolved during combustion of electric cables)
- UL recognized continuous use temperature: 203°F (95°C)
- UL 94 flammability rating of V-0
- Meets a Hazard Level Classification of HL1 per European Standard EN 45545-2 for R23 (exterior).
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material
- Provided with DIN 43 659 mounting holes
- Metric sizing and finger progression
- Duct and cover packaged together in two meter lengths







Multiple slot restrictors present with 75mm and greater duct wall height.

Base and Cover Part Number	Duct Size (W x H)*		Slot Width		Replacement Cover Part Number	Base and Cover Ctn. Qty. (m)	Replacement Cover Ctn. Qty. (m)
	mm	In.	mm	In.			
NNC25X25LG2	24.6 x 23.6	0.97 x 0.93	10.0	0.39	NC25LG2	20	20
NNC25X37LG2	24.6 x 35.8	0.97 x 1.41	10.0	0.39	NC25LG2		
NNC25X50LG2	25.1 x 47.8	0.99 x 1.88	10.0	0.39	NC25LG2		
NNC25X75LG2	24.6 x 72.4	0.97 x 2.85	10.0	0.39	NC25LG2		
NNC37X37LG2	37.1 x 35.8	1.46 x 1.41	10.0	0.39	NC37LG2		
NNC37X50LG2	37.1 x 47.8	1.46 x 1.88	10.0	0.39	NC37LG2		
NNC37X75LG2	37.1 x 72.4	1.46 x 2.85	10.0	0.39	NC37LG2		
NNC50X50LG2	49.5 x 47.8	1.95 x 1.88	10.0	0.39	NC50LG2		
NNC50X75LG2	49.5 x 72.4	1.95 x 2.85	10.0	0.39	NC50LG2	10	
NNC50X100LG2	49.5 x 97.8	1.95 x 3.85	10.0	0.39	NC50LG2		
NNC75X75LG2	75.4 x 72.4	2.97 x 2.85	10.0	0.39	NC75LG2		
NNC100X50LG2	99.6 x 47.8	3.92 x 1.88	10.0	0.39	NC100LG2		
NNC100X75LG2	99.6 x 72.4	3.92 x 2.85	10.0	0.39	NC100LG2		
NNC100X100LG2	99.6 x 97.8	3.92 x 3.85	10.0	0.39	NC100LG2		

Available in LG (Light Gray) and WH (White).
Do not allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with type NNC wiring duct as it will cause stress cracking. See page C1.51 for a list of chemicals to avoid.
*"H" dimension includes duct and cover.
For tool information refer to www.panduct.com/tools.

Panduct® Type NNC Divider Wall

- NNC solid divider wall can be mounted inside NNC and NE wiring duct to create multiple channels
- Material: Halogen-free polyphenylene oxide (PPO)
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



Part Number	Length (m)	For Nominal Duct Height (mm)	Std. Pkg. Qty. (m)	Std. Ctn. Qty. (m)
NNC50DWH2	2	50	2	40
NNC75DWH2	2	75		

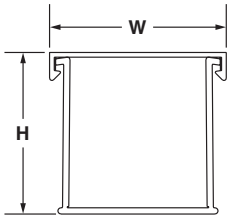
Available in WH (White) color only.
NOTE: Must be used with mounting base DB-C (see page C1.30), which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.
For tool information refer to www.panduct.com/tools.

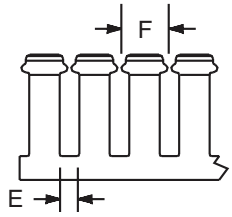
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type NE Halogen-Free Wiring Duct

- Material: Halogen-free polyphenylene oxide (PPO)
- UL recognized continuous use temperature: 203°F (95°C)
- UL 94 flammability rating of V-0
- Meets a Hazard Level Classification of HL1 per European Standard EN 45545-2 for R23 (exterior)
- Provided with mounting holes
- Base and cover length is 6 feet
- Conforms with NFPA 79-2015 section 13.3.1 requirement for flame retardant material







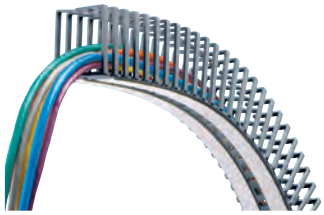
	E	F
For 0.5" duct height:	0.37" [9.4]	0.80" [20.3]
1" to 2" duct height:	0.31" [7.9]	0.80" [20.3]
3" to 4" duct height:	0.31" [7.9]	1.00" [25.4]
5" duct height:	0.38" [9.4]	1.33" [33.8]

	Base Part Number	Duct Size (W x H)* In.	Duct Size (W x H)* mm	Slot Width In.	Slot Width mm	Cover Part Number	Std. Pkg. Qty.	Base Ctn. Qty.	Cover Ctn. Qty.
>	NE.5X.5WH6	0.63 x 0.56	16.0 x 14.2	0.38	9.7	NC.5WH6	6	120	120
	NE.5X1WH6	0.63 x 1.06	16.0 x 26.9	0.31	7.9	NC.5WH6			
>	NE1X1WH6	1.14 x 1.06	29.0 x 26.9	0.31	7.9	NC1WH6			
	NE1X1.5WH6	1.14 x 1.62	29.0 x 41.1	0.31	7.9	NC1WH6			
	NE1X2WH6	1.14 x 2.06	29.0 x 52.3	0.31	7.9	NC1WH6			
	NE1X3WH6	1.14 x 3.06	29.0 x 77.7	0.31	7.9	NC1WH6			
	NE1X4WH6	1.14 x 4.06	29.0 x 103.1	0.31	7.9	NC1WH6	6	60	120
	NE1.5X1.5WH6	1.64 x 1.62	41.7 x 41.1	0.31	7.9	NC1.5WH6	6	120	120
	NE1.5X2WH6	1.64 x 2.06	41.7 x 52.3	0.31	7.9	NC1.5WH6			
	NE1.5X3WH6	1.64 x 3.06	41.7 x 77.7	0.31	7.9	NC1.5WH6			
	NE1.5X4WH6	1.64 x 4.06	41.7 x 103.1	0.31	7.9	NC1.5WH6	6	60	120
>	NE2X1WH6	2.14 x 1.08	54.4 x 27.4	0.31	7.9	NC2WH6	6	120	120
	NE2X2WH6	2.14 x 2.08	54.4 x 52.8	0.31	7.9	NC2WH6			
	NE2X3WH6	2.14 x 3.06	54.4 x 77.7	0.31	7.9	NC2WH6	6	60	120
	NE2X4WH6	2.14 x 4.06	54.4 x 103.1	0.31	7.9	NC2WH6			
	NE3X1WH6	3.14 x 1.06	79.8 x 26.9	0.31	7.9	NC3WH6	6	120	120
	NE3X2WH6	3.14 x 2.06	79.8 x 52.3	0.31	7.9	NC3WH6			
	NE3X3WH6	3.14 x 3.06	79.8 x 77.7	0.31	7.9	NC3WH6	6	60	120
	NE3X4WH6	3.14 x 4.06	79.8 x 103.1	0.31	7.9	NC3WH6			
	NE3X5WH6	3.14 x 5.06	79.8 x 128.5	0.38	9.7	NC3WH6			
	NE4X2WH6	4.14 x 2.06	105.2 x 52.3	0.31	7.9	NC4WH6			
	NE4X3WH6	4.14 x 3.06	105.2 x 77.7	0.31	7.9	NC4WH6			
>	NE4X4WH6	4.14 x 4.06	105.2 x 103.1	0.31	7.9	NC4WH6			
	NE4X5WH6	4.14 x 5.06	105.2 x 128.5	0.38	9.7	NC4WH6			

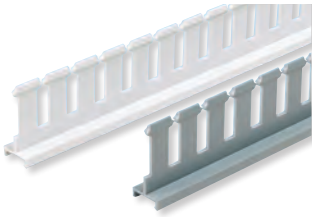
>Available in the solid NS duct without mounting holes.
Available in WH (White) only.
Do not allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with type NE wiring duct as it will cause stress cracking. See page C1.51 for list of chemicals to avoid.
Base and cover sold separately.
*"H" dimension includes duct and cover.
Some sizes and colors are available with adhesive tape. See page C1.36 for availability.
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com







Wiring Duct Accessories

Panduit® offers a selection of Panduct® Accessories to aid cutting, modifying, and installing wiring duct.

Some of the features and benefits found in Panduct® Accessories include:

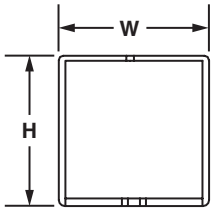
- **Snap-in wire retainers to retain cabling when the cover is removed or during cable installation**
- **Divider walls that mount within the duct, enabling multiple channels to be created within a duct channel**
- **Corner strips hold corners rigid at t-junctions in control panel applications**
- **Mounting clips provide an alternative method to mount the duct and allow the duct to be more easily removed**

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Panduct® Type FL Flexible Wiring Duct

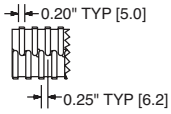
- Material: Flexible Polypropylene
- UL Recognized continuous use temperature: 149°F (65°C)
- UL 94 flammability rating of V-2
- Factory applied adhesive tape provided for easy positioning**
- Shelf Life: 5 yrs (adhesive tape)





Part Number	Duct Size (W x H)*		Length		Std. Pkg. Qty.
	mm	In.	mm	In.	
FL12X12LG-A	12.5 x 12.5	0.49 x 0.49	500	19.7	112
FL25X25LG-A	25.0 x 25.0	0.98 x 0.98	500	19.7	70
FL50X50LG-A	50.0 x 50.0	1.97 x 1.97	500	19.7	32

Available in LG (RAL 7040 Light Gray) color only. Unit of measure is pieces.
*"H" dimension includes duct and cover.
**Adhesive tape is not meant for permanent mounting of wiring duct. One mounting hole on each end will be exposed for permanent mounting with fasteners. For best results, wiring duct should be applied to clean, dry, grease-free surfaces. We recommend the surface be cleaned prior to wiring duct installation.
For tool information refer to www.panduit.com/tools.



Panduct® Divider Wall

- Wiring duct divider wall can be mounted inside any type of Panduit PVC wiring duct to create multiple channels
- Simply install the divider wall base when mounting the duct and snap the divider wall onto the mounting base
- All versions snap onto DB-C mounting base
- Divider wall heights 2" and greater have a scoreline feature allowing sections to be removed leaving a smooth edge
- Meets UL508/508A insulation material requirement for barrier between conductors
- Divider Wall material: Lead-free PVC, UL 94 flammability rating of V-0
- Mounting base material: Polycarbonate, UL 94 flammability rating of V-2



DB-C

Part Number	Used with Anchors	Std. Pkg. Qty.	Std. Ctn. Qty.
Panduct® Divider Wall Mounting Base			
DB-C	Panduit NR1 or #8, #10, M4 or M5 screw	100	1000



D*H6 and D*H2

Part Number	For Nominal Duct Height		Length		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	Ft.	M			
Panduct® Solid Divider Wall							
D2H6	2.00	50	6	—	Light Gray	6	120
D3H6	3.00	75	6	—			
D4H6	4.00	100	6	—			
D2HWH6	2.00	50	6	—	White	6	
D3HWH6	3.00	75	6	—			
D4HWH6	4.00	100	6	—			
D50H2	2.00	50	6	—			
Panduct® Slotted Divider Wall							
SD2H6	2.00	50	6	—	Light Gray	6	120
SD3H6	3.00	75	6	—			
SD4H6	4.00	100	6	—			
SD2HWH6	2.00	50	6	—	White	6	
SD3HWH6	3.00	75	6	—			
SD4HWH6	4.00	100	6	—			



SD*H6

Note: Must be used with mounting base, DB-C (see page C1.30) which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type NNC Divider Wall

- NNC solid divider wall can be mounted inside NNC and NE wiring duct to create multiple channels
- Material: Halogen-free polyphenylene oxide (PPO)
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



Part Number	For Nominal Duct Height In.	For Nominal Duct Height mm	Std. Pkg. Qty.	Std. Ctn. Qty.
NNC50DWH2	2.00	50	2	40
NNC75DWH2	3.00	75		

Available in WH (White) color only.
NOTE: Must be used with mounting base DB-C (see page C1.30), which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.
For tool information refer to www.panduit.com/tools.

Panduct® Type G and H Wiring Duct Wire Retainers

- Insert between fingers of type G and H to contain wiring when cover is removed
- Adjustable height
- Material: ABS



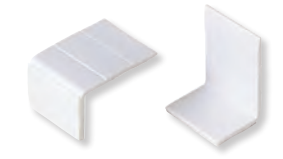


Part Number	For Nominal Duct Width In. (mm)	For Nominal Duct Height In. (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
WR2-C	2.00 (50.8)	2.00 – 4.00 (50.8 – 101.6)	100	1000
WR2H-C	2.00 (50.8)	2.00 – 4.00 (50.8 – 101.6)		
WR3-C	3.00 (76.2)	2.00 – 4.00 (50.8 – 101.6)		
WR4-C	4.00 (101.6)	2.00 – 4.00 (50.8 – 101.6)		
WR5-C	Use with: 3x5, 4x5, or 6x4	Use with: 3x5, 4x5, or 6x4		

*For 2" width type H hinged cover wiring duct use part number WR2H-C.
For tool information refer to www.panduit.com/tools.

Panduct® Solid Wall Wiring Duct Type FS, Type HS, and Type D Wiring Duct Wire Retainer

- Mounts onto walls of type FS , type HS, and type D wiring duct with pressure sensitive adhesive
- One size fits three different duct widths
- Full length is used with 2 inch wide duct; for small widths, break off segments at scorelines
- Material: Lead-free PVC





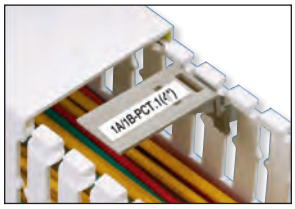
Part Number	For Nominal Duct Width	Std. Pkg. Qty.	Std. Ctn. Qty.
WRS-A-C10	1.00 (25.4) 1.50 (38.1) 2.00 (50.8)	100	1000

For tool information refer to www.panduit.com/tools.

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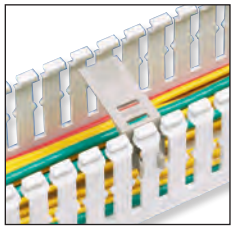
Panduct® Type F, HN and MC Duct Wire Retainers/Labeling Device

- Used to contain wiring when cover is removed and can also be used as a labeling device
- FWR-C is compatible with type F and HN duct sizes
- FMWR-C is compatible with type MC duct sizes
- Material: Lead-free PVC

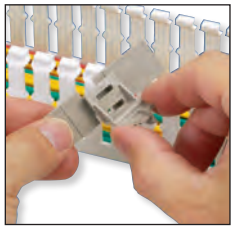


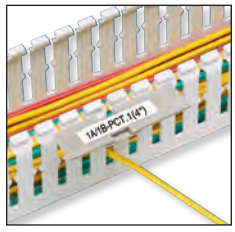
Part Number	Material	For Duct Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm		
FWR-C	Rigid PVC	1.50 – 4.00	37.0 – 76.2	100	1000
FMWR-C	Rigid PVC	1.46 – 3.94	37.0 – 100.0		

For tool information refer to www.panduit.com/tools.



Labeling Inside Duct – Snaps onto duct fingers. Full length for use with 4" wide duct. For smaller widths, break off segments at scorelines.





Labeling Outside Duct – Break off the last segment from wire retainer below 1.5" mark and snap onto the back of the remaining segment. Install label and mount between fingers facing outward.

Panduct® Duct Corner Strip with 1" Bend Radius Control

- Create a strong rigid corner at wiring duct junctions
- Provide bend radius protection for cabling as required in NFPA 79-2015 section 13.1.5.9 and TIA/EIA-568-B and 569-A
- Available in 6 foot lengths that can be cut to size to meet any size requirement
- Easy to install two-piece design
- Compatible with all styles of Panduit wiring duct
- UL 94 flammability rating of V-0
- Material: Lead-free PVC





Part Number	Part Description	For Duct Height		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm			
6' Lengths for use with all Types of PVC Wiring Duct						
CSC1LG6	Cut-to-size 6 foot corner strip with a 1" bend radius.	All sizes (Cut to height)*	All sizes (Cut to height)*	Light Gray	6	120

Order number of feet required, in multiples of 6' or Standard Package Quantity.
*Refer to Cutting Guide on page C1.33.
Also available in Black (BL) and White (WH).
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

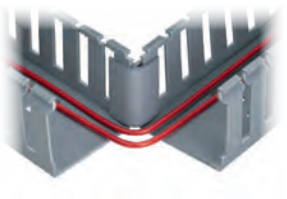
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Duct Corner Strip

- Slide onto duct at corner or t-junctions for smooth, round corners
- Available in 6 foot lengths that can be cut to size to meet any requirement
- Easy to install one-piece design
- Compatible with all styles of Panduct wiring duct
- UL 94 flammability rating of V-0
- Material: Lead-free PVC



CS1LG6



Part Number	Part Description	For Nominal Duct Height		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm			
6' Lengths for use with all Types of PVC Wiring Duct						
CS1LG6	6 foot length is cut by user to fit duct height.	All sizes (Cut to height)*	All sizes (Cut to height)*	Light Gray	6	120

*Refer to Cutting Guide below.
Available in Light (LG) and White (WH).
For tool information refer to www.panduit.com/tools.

Cutting Guide for Duct Corner Strips (CSC1**6, CS1**6)

Used with Duct Height	Cut-to-Size*
1 inch	0.47" (11.9)
1.5 inch	1.04" (26.4)
2 inch	1.23" (31.2)
2.5 inch	1.97" (50.0)
3 inch	2.27" (57.7)
4 inch	3.25" (82.5)
5 inch	4.47" (113.5)

Used with Metric Duct Height	Cut-to-Size*
25mm	0.43" (10.9)
37mm	0.91" (23.1)
50mm	1.39" (35.3)
62mm	1.85" (47.0)
75mm	2.38" (60.5)
100mm	3.35" (85.1)

*Cut-to-size measure fits into the flat area of the duct sidewall.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Snap-Clip Mounting Brackets

- Duct easily snaps into bracket
- No mounting holes required in duct
- Ensures no metal is inside the duct
- Snap-clip spacing is not critical
- Simplifies fabrication drawings and panel layout
- Material: Spring steel



Part Number	Screw Required	For Duct Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm		
Snap-Clip Mounting Brackets for use with Types G, F, FS and D Wiring Duct					
S1F-C	#8-32 x 1/4 (Provided)	1.00	25.4	100	1000
S1.5F-C	#8-32 x 1/4 (Provided)	1.50	38.1		
S2F-C	#8-32 x 1/4 (Provided)	2.00	50.8		
S3F-C	#8-32 x 1/4 (Provided)	3.00	76.2		
S4F-C	#8-32 x 1/4 (Provided)	4.00	101.6		
Snap-Clip Mounting Brackets for use with Types MC and NNC Wiring Duct					
SNS25F-C	#8-32 x 1/4 (User Supplied)	1.00	25.0	100	1000
SNS37F-C	#8-32 x 1/4 (User Supplied)	1.50	37.0		
SNS50F-C	#8-32 x 1/4 (User Supplied)	2.00	50.0		
SNS62F-C	#8-32 x 1/4 (User Supplied)	2.50	62.0		
SNS75F-C	#8-32 x 1/4 (User Supplied)	3.00	75.0		

For tool information refer to www.panduit.com/tools.

Panduct® Snap-Clip Mounting Bracket – Type NE and NS Wiring Duct

- Duct easily snaps into bracket
- Ensures no metal is inside the duct
- Snap-clip spacing is not critical
- Simplifies fabrication drawings and panel layout
- Material: Spring steel



Part Number	Screw Required	For Duct Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm		
SNS.5-C	#6-32 x 1/4 (User Supplied)	0.50	12.7	100	1000
SNS.75-C	#6-32 x 1/4 (User Supplied)	0.75	19.1		
SNS1-C	#8-32 x 1/4 (User Supplied)	1.00	25.4		
SNS1.5-C	#8-32 x 1/4 (User Supplied)	1.50	38.1		
SNS2-C	#8-32 x 1/4 (User Supplied)	2.00	50.8		
SNS3-C	#8-32 x 1/4 (User Supplied)	3.00	76.2		

For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Adhesive Tape for Wiring Duct

- Recommended installation temperature is 70°F (21°C)
- UL recognized service temperature is 32°F (0°C) to 140°F (60°C)
- Optimum recommended dwell time for acrylic adhesive is 8 hours
- Recommended tape load is 1/2 lb. per square inch of tape area



Duct Size (W x H)	Tape Part Number	Roll Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		Yds.	m		
0.5 x 0.5 thru 1.5 x 4	**P32W2A2-50-7**	7.0	6.4	1	100
	P32W2A2-50-72	72.0	65.5		9
2 x 1 thru 3 x 3	**P32W2A2-50-7**	7.0	6.4		100
	P32W2A2-50-72	72.0	65.5		9
3 x 4 thru 3 x 5	**P32W2A2-75-7**	7.0	6.4		60
	P32W2A2-75-72	72.0	65.5		7
4 x 1.5 thru 4 x 3	**P32W2A2-50-7**	7.0	6.4		100
	P32W2A2-75-72	72.0	65.5		9
4 x 4 thru 6 x 4	**P32W2A2-75-7**	7.0	6.4		60
	P32W2A2-75-72	72.0	65.5		7

For wiring duct 1.5 x 1.5 use 3/4" wide tape.
For tool information refer to www.panduit.com/tools.

Specifications for Factory Applied Tape

Duct Size (W x H)	Rows of Tape	Tape			
		Width		Thickness	
		In.	mm	In.	mm
0.5 x 0.5 through 0.75 x 2	1	0.50	12.7	0.03	0.8
1 x 1 through 1.5 x 4	1	0.75	19.1	0.03	0.8
2 x 1 through 3 x 3	2	0.50	12.7	0.03	0.8
3 x 4 through 3 x 5	2	0.75	19.1	0.03	0.8
4 x 1.5 through 4 x 3	2	0.50	12.7	0.03	0.8
4 x 4 through 6 x 4	2	0.75	19.1	0.03	0.8

Adhesive tape is not meant for permanent mounting of wiring duct. One mounting hole on each end will be exposed for permanent mounting with fasteners. For best results, wiring duct should be applied to clean, dry, grease-free surfaces. We recommend the surface be cleaned prior to wiring duct installation.
For tool information refer to www.panduit.com/tools.

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Adhesive Tape Guide

Selection of wiring duct part numbers
available with factory applied adhesive tape.



G Duct Light Gray	G Duct White	G Duct Black	F Duct Light Gray	F Duct White	FS Duct Light Gray	FS Duct White	FS Duct Black	NE Duct White
G.5X.5LG6-A	G.5X.5WH6-A	–	F.5X.5LG6-A	–	–	–	–	–
G.5X1LG6-A	G.5X1WH6-A	–	F.5X1LG6-A	–	–	–	–	–
G.75X.75LG6-A	–	–	F.75X.75LG6-A	–	–	–	–	–
G.75X1LG6-A	G.75X1WH6-A	–	–	–	–	–	–	–
G.75X1.5LG6-A	G.75X1.5WH6-A	–	F.75X1.5LG6-A	–	–	–	–	–
G.75X2LG6-A	G.75X2WH6-A	–	–	–	–	–	–	–
G1X1LG6-A	G1X1WH6-A	–	F1X1LG6-A	–	–	FS1X1WH6-A	–	–
G1X1.5LG6-A	G1X1.5WH6-A	–	F1X1.5LG6-A	–	FS1X1.5LG6-A	–	–	–
G1X2LG6-A	G1X2WH6-A	–	F1X2LG6-A	F1X2WH6-A	–	–	–	–
G1X3LG6-A	G1X3WH6-A	G1X3BL6-A	F1X3LG6-A	F1X3WH6-A	–	–	–	–
G1X4LG6-A	G1X4WH6-A	–	F1X4LG6-A	F1X4WH6-A	–	–	–	–
G1.5X1LG6-A	G1.5X1WH6-A	–	F1.5X1LG6-A	–	–	–	–	–
G1.5X1.5LG6-A	G1.5X1.5WH6-A	–	F1.5X1.5LG6-A	–	FS1.5X1.5LG6-A	FS1.5X1.5WH6-A	FS1.5X1.5BL6-A	–
G1.5X2LG6-A	G1.5X2WH6-A	–	F1.5X2LG6-A	–	–	–	–	NE1.5X2WH6-A
G1.5X3LG6-A	G1.5X3WH6-A	–	F1.5X3LG6-A	F1.5X3WH6-A	–	–	–	–
G1.5X4LG6-A	G1.5X4WH6-A	–	F1.5X4LG6-A	F1.5X4WH6-A	–	–	–	–
G2X1LG6-A	G2X1WH6-A	–	F2X1LG6-A	–	–	–	–	–
G2X1.5LG6-A	G2X1.5WH6-A	–	F2X1.5LG6-A	–	–	–	–	–
G2X2LG6-A	G2X2WH6-A	G2X2BL6-A	F2X2LG6-A	F2X2WH6-A	–	–	–	NE2X2WH6-A
G2X3LG6-A	G2X3WH6-A	–	F2X3LG6-A	F2X3WH6-A	–	–	–	–
G2X4LG6-A	G2X4WH6-A	G2X4BL6-A	F2X4LG6-A	F2X4WH6-A	–	–	–	–
G2X5LG6-A	G2X5WH6-A	–	F2X5LG6-A	–	–	–	–	–
G2.5X3LG6-A	G2.5X3WH6-A	–	–	–	–	–	–	–
G3X1LG6-A	G3X1WH6-A	–	F3X1LG6-A	–	–	–	–	–
G3X2LG6-A	G3X2WH6-A	–	F3X2LG6-A	–	–	–	–	–
G3X3LG6-A	G3X3WH6-A	G3X3BL6-A	F3X3LG6-A	F3X3WH6-A	–	–	–	–
G3X4LG6-A	G3X4WH6-A	–	F3X4LG6-A	F3X4WH6-A	–	–	–	–
G3X5LG6-A	G3X5WH6-A	–	F3X5LG6-A	–	–	–	–	–
G4X1.5LG6-A	G4X1.5WH6-A	–	–	–	–	–	–	–
G4X2LG6-A	G4X2WH6-A	–	F4X2LG6-A	–	–	–	–	NE4X2WH6-A
G4X3LG6-A	G4X3WH6-A	–	F4X3LG6-A	F4X3WH6-A	–	–	–	NE4X3WH6-A
G4X4LG6-A	G4X4WH6-A	G4X4BL6-A	F4X4LG6-A	F4X4WH6-A	–	–	–	NE4X4WH6-A
G4X5LG6-A	G4X5WH6-A	–	F4X5LG6-A	–	–	–	–	–
–	–	–	–	–	FS6X4LG6-A	–	–	–

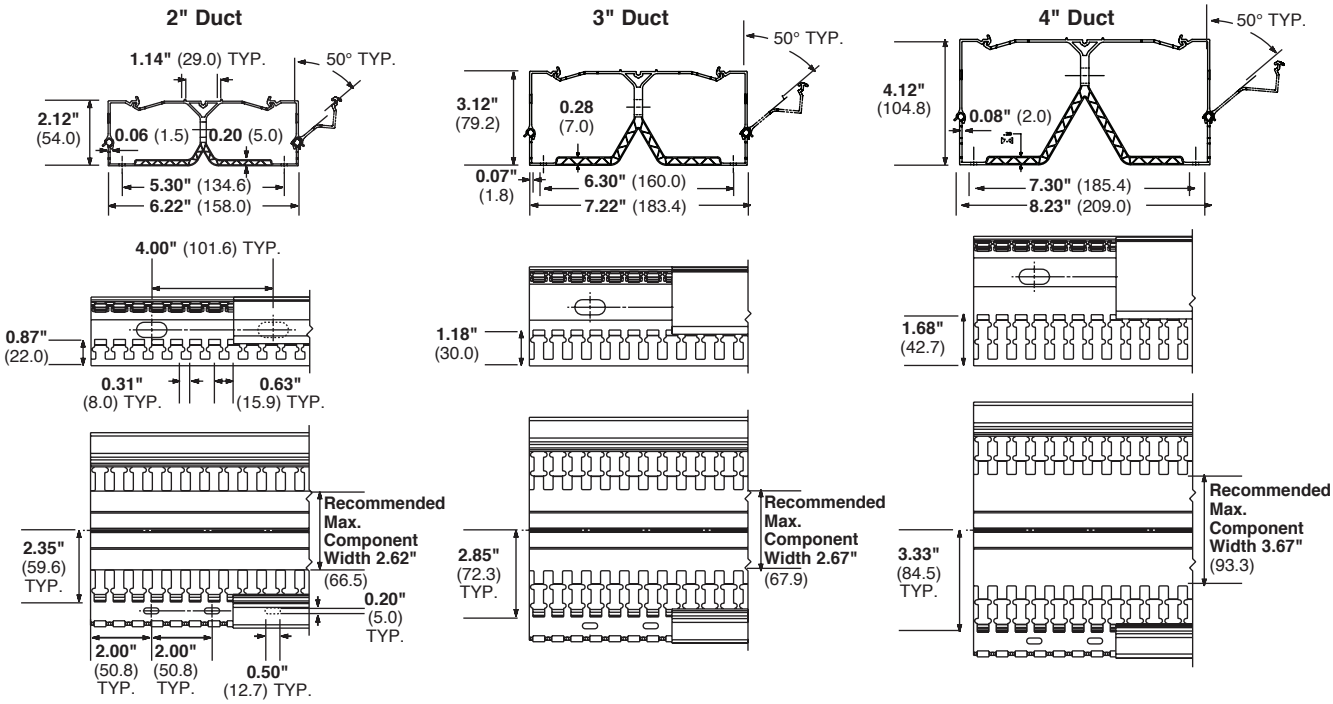
All three sizes of flexible duct come provided with adhesive: FL12X12LG-A, FL25X25LG-A, FL50X50LG-A.
Adhesive tape is not meant for permanent mounting of wiring duct. One mounting hole on each end will be exposed for permanent mounting with fasteners.
For best results, wiring duct should be applied to clean, dry, grease-free surfaces. We recommend the surface be cleaned prior to wiring duct installation.
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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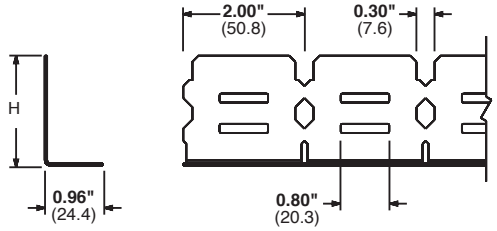
Panduct® PanelMax™ DIN Rail Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.



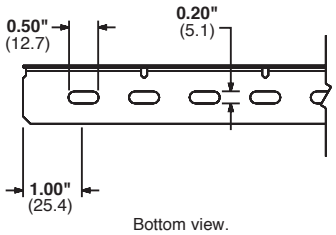
Panduct® PanelMax™ Noise Shield Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

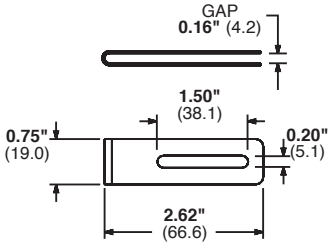


Part No.	H
SD2EMI	1.82 (46.1)
SD3EMI	2.88 (73.2)
SD4EMI	3.86 (98.2)

Sidewall: SD2EMI shown.
SD3EMI, SD4EMI sidewall feature two pairs of cable tie slots per section.



Bottom view.



Bonding clip (for use with wiring duct).

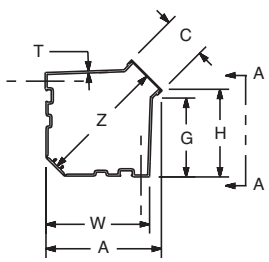
All dimension shown in inches (mm).

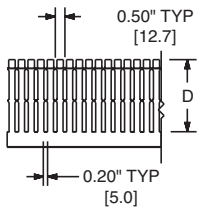
Panduct® PanelMax™ Corner Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

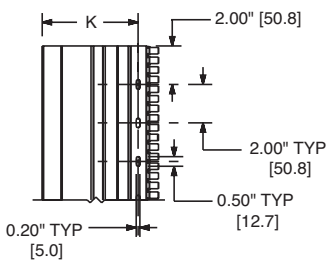
Size	Dimensions – Inches (mm)								
	A	C	D	G	H	K	T	W	Z
CWD2	3.91 (99.3)	2.25 (57.2)	1.81 (45.9)	2.10 (53.4)	2.57 (65.3)	2.93 (74.3)	0.08 (2.0)	3.35 (85.0)	3.72 (94.6)
CWD3	4.98 (126.6)	2.25 (57.2)	2.83 (71.8)	3.10 (79.1)	3.57 (90.7)	3.88 (98.6)	0.10 (2.4)	4.40 (111.8)	5.16 (131.0)
CWD4	5.94 (150.9)	2.25 (57.2)	3.84 (97.5)	4.10 (104.1)	4.58 (115.7)	4.93 (125.2)	0.11 (2.7)	5.33 (135.3)	6.54 (166.0)

For tool information refer to www.panduit.com/tools.





View A – A

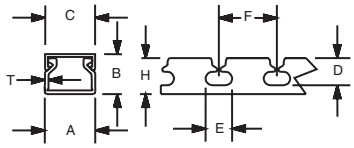


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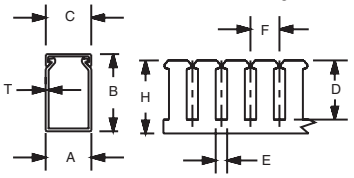
Panduct® Type G and D Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

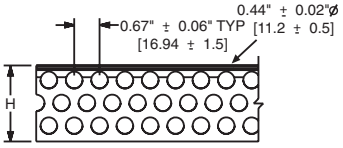
For .5" high duct.



For 0.75", 1", 1.5", 2", 3", 4" and 5" high duct.

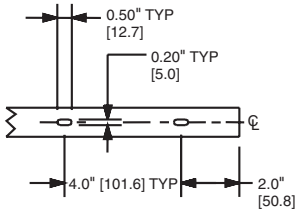


Note: 'A' dimension is measured at base.
Note: 'K' dimension shown in mounting hole dimensions below.

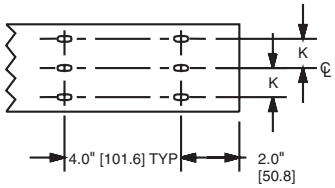


For 2" duct height = 3 rows of holes
3" duct height = 4 rows of holes
4" duct height = 6 rows of holes

Mounting Hole Dimensions
For 0.5", 0.75", 1", and 1.5" wide duct.



For 2.0", 2.5", 3", 4" and 6" wide duct.



	Duct Size (W x H)	Dimensions – Inches (mm) A	B	C	D	E	F	H	K	T
>	0.5 x 0.5 (12.7) x (12.7)	0.69 (17.5)	0.60 (15.2)	0.69 (17.5)	0.38 (9.7)	0.37 (9.4)	0.80 (20.3)	0.50 (12.7)	ON CENTERLINE	0.05 (1.3)
>	0.5 x 1 (12.7) x (25.4)	0.69 (17.5)	1.06 (26.9)	0.69 (17.5)	0.75 (19.1)	0.32 (8.1)	0.80 (20.3)	1.00 (25.4)		0.05 (1.3)
>	0.5 x 2 (12.7) x (50.8)	0.69 (17.5)	2.03 (51.6)	0.69 (17.5)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)		0.08 (2.0)
>	0.75 x 0.75 (19.1) x (19.1)	0.92 (23.9)	0.82 (20.8)	0.92 (23.9)	56 (14.2)	0.32 (8.1)	0.80 (20.3)	0.75 (19.1)		0.05 (1.3)
>	0.75 x 1 (19.1) x (25.4)	0.92 (23.9)	1.06 (26.9)	0.92 (23.9)	0.75 (19.1)	0.32 (8.1)	0.80 (20.3)	1.00 (25.4)		0.05 (1.3)
>	0.75 x 1.5 (19.1) x (38.1)	0.92 (23.9)	1.57 (39.9)	0.92 (23.9)	1.20 (30.5)	0.32 (8.1)	0.80 (20.3)	1.50 (38.1)		0.05 (1.3)
>	0.75 x 2 (19.1) x (50.8)	0.94 (23.8)	2.03 (51.6)	0.94 (23.9)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)		0.08 (2.0)
>	1 x 1 (25.4) x (25.4)	1.25 (31.8)	1.12 (28.4)	1.25 (31.8)	0.75 (19.1)	0.32 (8.1)	0.80 (20.3)	1.00 (25.4)		0.06 (1.5)
>	1 x 1.5 (25.4) x (38.1)	1.25 (31.8)	1.62 (41.1)	1.25 (31.8)	1.20 (30.5)	0.32 (8.1)	0.80 (20.3)	1.50 (38.1)		0.07 (1.8)
	1 x 2 (25.4) x (50.8)	1.25 (31.8)	2.12 (53.8)	1.25 (31.8)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)		0.08 (2.0)
	1 x 3 (25.4) x (76.2)	1.25 (31.8)	3.12 (79.2)	1.25 (31.8)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)		0.09 (2.3)
	1 x 4 (25.4) x (101.6)	1.25 (31.8)	4.10 (104.1)	1.25 (31.8)	3.63 (92.2)	0.32 (8.1)	1.00 (25.4)	4.00 (101.6)		0.10 (2.6)
>	1.5 x 1 (38.1) x (25.4)	1.75 (44.5)	1.12 (28.4)	1.75 (44.5)	0.75 (19.1)	0.32 (8.1)	0.80 (20.3)	1.00 (25.4)		0.06 (1.5)
>	1.5 x 1.5 (38.1) x (38.1)	1.75 (44.5)	1.62 (41.1)	1.75 (44.5)	1.20 (30.5)	0.32 (8.1)	0.80 (20.3)	1.50 (38.1)		0.07 (1.8)
	1.5 x 2 (38.1) x (50.8)	1.75 (44.5)	2.12 (53.8)	1.75 (44.5)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)		0.08 (2.0)
	1.5 x 3 (38.1) x (76.2)	1.75 (44.5)	3.12 (79.2)	1.75 (44.5)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)		0.10 (2.5)
	1.5 x 4 (38.1) x (101.6)	1.74 (44.5)	4.10 (104.1)	1.74 (44.5)	3.63 (92.2)	0.32 (8.1)	1.00 (25.4)	4.00 (101.6)		0.11 (2.8)
>	2 x 1 (50.8) x (25.4)	2.25 (57.2)	1.12 (28.4)	2.25 (57.2)	0.75 (19.1)	0.32 (8.1)	0.80 (20.3)	1.00 (25.4)	0.50 (12.7)	0.06 (1.5)
>	2 x 1.5 (50.8) x (38.1)	2.25 (57.2)	1.62 (41.1)	2.25 (57.2)	1.20 (30.5)	0.32 (8.1)	0.80 (20.3)	1.50 (38.1)	0.50 (12.7)	0.07 (1.8)
	2 x 2 (50.8) x (50.8)	2.25 (57.2)	2.12 (53.8)	2.25 (57.2)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)	0.50 (12.7)	0.08 (2.0)
	2 x 3 (50.8) x (76.2)	2.25 (57.2)	3.12 (79.2)	2.25 (57.2)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)	0.50 (12.7)	0.10 (2.5)
	2 x 4 (50.8) x (101.6)	2.25 (57.2)	4.10 (104.1)	2.25 (57.2)	3.63 (92.2)	0.32 (8.1)	1.00 (25.4)	4.00 (101.6)	0.50 (12.7)	0.11 (2.8)
>	2 x 5 (50.8) x (127.0)	2.25 (57.2)	5.10 (129.5)	2.25 (57.2)	4.63 (117.6)	0.32 (8.1)	1.33 (33.8)	5.00 (127.0)	0.50 (12.7)	0.12 (3.0)
	2.5 x 3 (63.5) x (76.2)	2.75 (69.9)	3.12 (79.2)	2.75 (69.9)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)	0.73 (18.5)	0.10 (2.5)
>	3 x 1 (76.2) x (25.4)	3.25 (82.6)	1.12 (28.4)	3.25 (82.6)	0.75 (19.1)	0.32 (8.1)	.80 (20.3)	1.00 (25.4)	1.00 (25.4)	0.07 (1.8)
	3 x 2 (76.2) x (50.8)	3.25 (82.6)	2.12 (53.8)	3.25 (82.6)	1.63 (41.4)	0.32 (8.1)	.80 (20.3)	2.00 (50.8)	1.00 (25.4)	0.08 (2.0)
	3 x 3 (76.2) x (76.2)	3.25 (82.6)	3.12 (79.2)	3.25 (82.6)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)	1.00 (25.4)	0.10 (2.5)
	3 x 4 (76.2) x (101.6)	3.25 (82.6)	4.10 (104.1)	3.25 (82.6)	3.63 (92.2)	0.32 (8.1)	1.00 (25.4)	4.00 (101.6)	1.00 (25.4)	0.11 (2.8)
>	3 x 5 (76.2) x (127.0)	3.25 (82.6)	5.10 (129.5)	3.25 (82.6)	4.63 (117.6)	0.38 (9.7)	1.33 (33.8)	5.00 (127.0)	1.00 (25.4)	0.12 (3.0)
>	4 x 1.5 (101.6) x (38.1)	4.25 (108.0)	1.62 (41.1)	4.25 (108.0)	1.20 (30.5)	0.32 (8.1)	.80 (20.3)	1.50 (38.1)	1.50 (38.1)	0.07 (1.8)
	4 x 2 (101.6) x (50.8)	4.25 (108.0)	2.12 (53.8)	4.25 (108.0)	1.63 (41.4)	0.32 (8.1)	0.80 (20.3)	2.00 (50.8)	1.50 (38.1)	0.08 (2.0)
	4 x 3 (101.6) x (76.2)	4.25 (108.0)	3.12 (79.2)	4.25 (108.0)	2.63 (66.8)	0.32 (8.1)	1.00 (25.4)	3.00 (76.2)	1.50 (38.1)	0.10 (2.5)
	4 x 4 (101.6) x (101.6)	4.25 (108.0)	4.10 (104.1)	4.25 (108.0)	3.63 (92.2)	0.32 (8.1)	1.00 (25.4)	4.00 (101.6)	1.50 (38.1)	0.11 (2.8)
>	4 x 5 (101.6) x (127.0)	4.25 (108.0)	5.10 (129.5)	4.25 (108.0)	4.63 (117.6)	0.38 (9.7)	1.33 (33.8)	5.00 (127.0)	1.50 (38.1)	0.12 (3.0)
>	6 x 4 (152.4) x (101.6)	6.23 (158.8)	4.15 (105.4)	6.25 (158.8)	3.63 (92.2)	0.31 (8.1)	1.00 (25.4)	4.00 (101.6)	2.50 (63.5)	0.11 (2.8)

>Available for type G wiring duct only.
See page C1.15 and C1.19 for wiring duct color and size availability.
For tool information refer to www.panduit.com/tools.

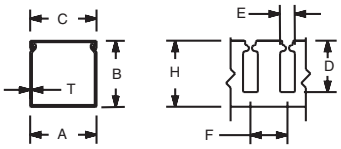
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

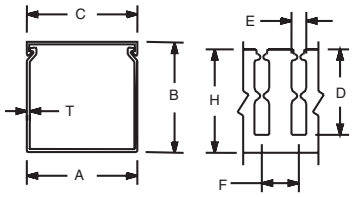
Panduct® Type F and FS Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduct Customer Service at 800-777-3300 for specific dimensional needs.

For 0.5", 0.75", 1" and 1.5" high duct.

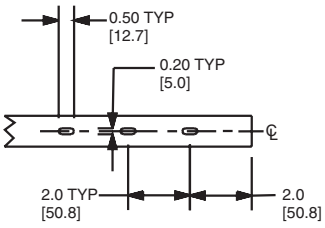


For 2", 3", 4" and 5" high duct.

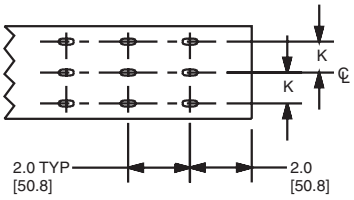


Note: 'A' dimension is measured at base.
Note: 'K' dimension shown in mounting hole dimensions below.

Mounting Hole Dimensions
For 0.5", 0.75", 1" and 1.5" wide duct.



For 2.0", 2.5", 3", 4" and 6" wide duct.



Note: For type FS wiring duct, no mounting holes is the standard condition; if mounting holes are required, delete NM from the part number.

Duct Size (W x H)	Dimensions – Inches (mm)								
	A	B	C	D	E	F	H	K	T
0.5 x 0.5 (12.7) x (12.7)	0.69 (17.5)	0.60 (15.2)	0.69 (17.5)	0.38 (9.5)	0.20 (5.0)	.50 (12.7)	.50 (12.7)	ON CENTERLINE	0.05 (1.3)
0.5 x 1 (12.7) x (25.4)	0.69 (17.5)	1.06 (26.9)	0.69 (17.5)	0.75 (19.1)	0.20 (5.0)	.50 (12.7)	1.00 (25.4)		0.05 (1.3)
0.75 x 0.75 (19.1) x (19.1)	0.94 (23.6)	0.82 (20.8)	0.94 (23.9)	56 (14.3)	0.20 (5.0)	.50 (12.7)	0.75 (19.1)		0.06 (1.4)
0.75 x 1.5 (19.1) x (38.1)	0.94 (23.6)	1.57 (39.9)	0.94 (23.9)	1.20 (30.5)	0.20 (5.0)	.50 (12.7)	1.50 (38.1)		0.07 (1.8)
1 x 1 (25.4) x (25.4)	1.25 (31.8)	1.13 (28.7)	1.25 (31.8)	0.75 (19.1)	0.20 (5.0)	.50 (12.7)	1.00 (25.4)		0.06 (1.4)
1 x 1.5 (25.4) x (38.1)	1.25 (31.8)	1.62 (41.1)	1.25 (31.8)	1.20 (30.5)	0.20 (5.0)	.50 (12.7)	1.50 (38.1)		0.07 (1.8)
1 x 2 (25.4) x (50.8)	1.25 (31.8)	2.12 (53.8)	1.25 (31.8)	1.63 (41.4)	0.20 (5.0)	0.50 (12.7)	2.00 (50.8)		0.08 (2.0)
1 x 3 (25.4) x (76.2)	1.25 (31.8)	3.12 (79.2)	1.25 (31.8)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)		0.10 (2.4)
1 x 4 (25.4) x (101.6)	1.25 (31.8)	4.10 (104.1)	1.25 (31.8)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)		0.11 (2.7)
1.5 x 1 (38.1) x (25.4)	1.75 (44.5)	1.12 (28.4)	1.75 (44.5)	0.75 (19.1)	0.20 (5.0)	0.50 (12.7)	1.00 (25.4)		0.06 (1.5)
1.5 x 1.5 (38.1) x (38.1)	1.75 (44.5)	1.62 (41.1)	1.75 (44.5)	1.20 (30.5)	0.20 (5.0)	0.50 (12.7)	1.50 (38.1)		0.07 (1.8)
1.5 x 2 (38.1) x (50.8)	1.75 (44.5)	2.12 (53.8)	1.75 (44.5)	1.63 (41.4)	0.20 (5.0)	0.50 (12.7)	2.00 (50.8)		0.08 (2.0)
1.5 x 3 (38.1) x (76.2)	1.75 (44.5)	3.12 (79.2)	1.75 (44.5)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)		0.10 (2.4)
1.5 x 4 (38.1) x (101.6)	1.75 (44.5)	4.10 (104.1)	1.75 (44.5)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)		0.11 (2.7)
2 x 1 (50.8) x (25.4)	2.25 (57.2)	1.12 (28.4)	2.25 (57.2)	0.75 (19.1)	0.20 (5.0)	0.50 (12.7)	1.00 (25.4)	0.50 (12.7)	0.06 (1.5)
2 x 1.5 (50.8) x (38.1)	2.25 (57.2)	1.62 (41.1)	2.25 (57.2)	1.20 (30.5)	0.20 (5.0)	0.50 (12.7)	1.50 (38.1)	.50 (12.7)	0.07 (1.8)
2 x 2 (50.8) x (50.8)	2.25 (57.2)	2.12 (53.8)	2.25 (57.2)	1.63 (41.4)	0.20 (5.0)	0.50 (12.7)	2.00 (50.8)	.50 (12.7)	0.08 (2.0)
2 x 3 (50.8) x (76.2)	2.25 (57.2)	3.14 (79.8)	2.25 (57.2)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)	.50 (12.7)	0.10 (2.4)
2 x 4 (50.8) x (101.6)	2.25 (57.2)	4.10 (104.1)	2.25 (57.2)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	.50 (12.7)	0.11 (2.7)
2 x 5 (50.8) x (127.0)	2.25 (57.2)	5.10 (129.5)	2.25 (57.2)	4.63 (117.6)	0.20 (5.0)	0.50 (12.7)	5.00 (127.0)	.50 (12.7)	0.12 (2.9)
3 x 1 (76.2) x (25.4)	3.25 (82.6)	1.12 (28.4)	3.25 (82.6)	0.75 (19.1)	0.20 (5.0)	0.50 (12.7)	1.00 (25.4)	1.00 (25.4)	0.07 (1.8)
3 x 2 (76.2) x (50.8)	3.25 (82.6)	2.12 (53.8)	3.25 (82.6)	1.63 (41.4)	0.20 (5.0)	0.50 (12.7)	2.00 (50.8)	1.00 (25.4)	0.08 (2.0)
3 x 3 (76.2) x (76.2)	3.25 (82.6)	3.12 (79.2)	3.25 (82.6)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)	1.00 (25.4)	0.10 (2.4)
3 x 4 (76.2) x (101.6)	3.25 (82.6)	4.10 (104.1)	3.25 (82.6)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	1.00 (25.4)	0.11 (2.7)
3 x 5 (76.2) x (127.0)	3.25 (82.6)	5.10 (129.5)	3.25 (82.6)	4.63 (117.6)	0.20 (5.0)	0.50 (12.7)	5.00 (127.0)	1.00 (25.4)	0.12 (2.9)
4 x 1.5 (101.6) x (38.1) >	4.25 (108.0)	1.62 (41.1)	4.25 (108.0)	N/A	N/A	N/A	1.50 (38.1)	N/A	0.07 (1.8)
4 x 2 (101.6) x (50.8)	4.25 (108.0)	2.12 (53.8)	4.25 (108.0)	1.63 (41.4)	0.20 (5.0)	0.50 (12.7)	2.00 (50.8)	1.50 (38.1)	0.08 (2.0)
4 x 3 (101.6) x (76.2)	4.25 (108.0)	3.12 (79.2)	4.25 (108.0)	2.63 (66.8)	0.20 (5.0)	.50 (12.7)	3.00 (76.2)	1.50 (38.1)	0.10 (2.5)
4 x 4 (101.6) x (101.6)	4.25 (108.0)	4.10 (104.1)	4.25 (108.0)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	1.50 (38.1)	0.11 (2.7)
4 x 5 (101.6) x (127.0)	4.25 (108.0)	5.10 (129.5)	4.25 (108.0)	4.63 (117.5)	0.20 (5.0)	0.50 (12.7)	5.00 (127.0)	1.50 (38.1)	0.12 (2.9)
6 x 4 (152.4) x (101.6)	6.25 (158.8)	4.15 (105.4)	6.25 (158.8)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	2.50 (63.5)	0.11 (2.8)

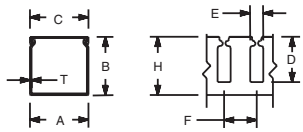
>Available for type FS wiring duct only.
See page C1.50 for wiring duct color and size availability.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

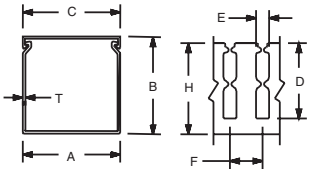
Panduct® Type MC Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

For 25mm, 37.5mm, and 50mm high duct.

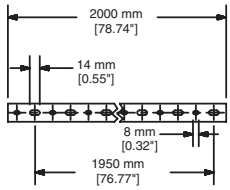


For 62.5mm, 75mm, and 100mm high duct.

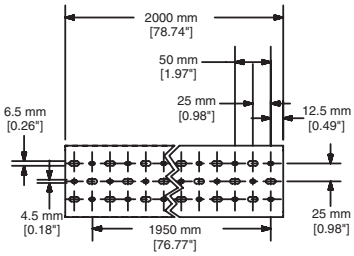


Note: 'A' dimension is measured at base.
Note: 'K' dimension shown in mounting hole dimensions below.

Mounting Hole Dimensions
For 25mm, 37.5mm, and 50mm width duct.



For 75mm and 100mm width duct.



Duct Size (W x H)	Dimensions – mm (Inches)							
	A	B	C	D	E	F	H	T
25 x 25 (0.98) x (0.98)	24.6 (0.97)	23.6 (0.93)	24.6 (0.97)	13.7 (0.54)	5.0 (0.20)	12.5 (0.49)	20.5 (0.81)	1.4 (0.06)
25 x 37.5 (0.98) x (1.48)	24.6 (0.97)	35.8 (1.41)	24.6 (.97)	24.7 (.97)	5.0 (0.20)	12.5 (0.49)	33.0 (1.30)	1.4 (0.06)
25 x 50 (0.98) x (1.97)	24.6 (0.97)	47.8 (1.88)	24.6 (.97)	34.8 (1.37)	5.0 (0.20)	12.5 (0.49)	45.5 (1.79)	1.5 (0.06)
25 x 62.5 (0.98) x (2.46)	24.6 0(.97)	59.7 (2.35)	24.6 (.97)	45.8 (1.80)	5.0 (0.20)	12.5 (0.49)	58.0 (2.28)	1.5 (0.06)
25 x 75 (0.98) x (2.95)	24.6 (0.97)	73.2 (2.88)	24.6 (.97)	57.6 (2.27)	5.0 (0.20)	12.5 (0.49)	70.5 (2.78)	1.7 (0.07)
37.5 x 37.5 (1.48) x (1.48)	37.1 (1.46)	35.8 (1.41)	37.1 (1.46)	24.7 (.97)	5.0 (0.20)	12.5 (0.49)	33.0 (1.30)	1.5 (0.06)
37.5 x 50 (1.48) x (1.97)	37.1 (1.46)	47.8 (1.88)	37.1 (1.46)	34.8 (1.37)	5.0 (0.20)	12.5 (0.49)	45.5 (1.79)	1.7 (0.07)
37.5 x 62.5 (1.48) x (2.46)	37.1 (1.46)	59.7 (2.35)	37.1 (1.46)	45.8 (1.80)	5.0 (0.20)	12.5 (0.49)	58.0 (2.28)	1.7 (0.07)
37.5 x 75 (1.48) x (2.95)	37.1 (1.46)	72.4 (2.85)	37.1 (1.46)	57.6 (2.27)	5.0 (0.20)	12.5 (0.49)	70.5 (2.78)	1.8 (0.07)
50 x 50 (1.97) x (1.97)	49.5 (1.95)	48.0 (1.89)	49.5 (1.95)	34.8 (1.37)	5.0 (0.20)	12.5 (0.49)	45.5 (1.79)	1.7 (0.07)
50 x 75 (1.97) x (2.95)	49.5 (1.95)	72.4 (2.85)	49.5 (1.95)	57.6 (2.27)	5.0 (0.20)	12.5 (0.49)	70.5 (2.78)	1.9 (0.08)
50 x 100 (1.97) x (3.94)	49.5 (1.95)	97.8 (3.85)	49.5 (1.95)	81.0 (3.19)	5.0 (0.20)	12.5 (0.49)	95.5 (3.76)	2.2 (0.09)
62.5 x 62.5 (2.46) x (2.46)	62.0 (2.44)	59.7 (2.35)	62.0 (2.44)	45.8 (1.80)	5.0 (0.20)	12.5 (0.49)	58.0 (2.28)	1.8 (0.07)
75 x 50 (2.95) x (1.97)	74.7 (2.94)	48.0 (1.89)	74.7 (2.94)	34.8 (1.37)	5.0 (0.20)	12.5 (0.49)	45.5 (1.79)	2.0 (0.08)
75 x 62.5 (2.95) x (2.46)	74.7 (2.94)	59.7 (2.35)	74.7 (2.94)	45.8 (1.80)	5.0 (0.20)	12.5 (0.49)	58.0 (2.28)	2.0 (.08)
75 x 75 (2.95) x (2.95)	74.7 (2.94)	73.2 (2.88)	74.7 (2.94)	57.6 (2.27)	5.0 (0.20)	12.5 (0.49)	70.5 (2.78)	2.2 (0.09)
75 x 100 (2.95) x (3.94)	74.7 (2.94)	97.8 (3.85)	74.7 (2.94)	81.0 (3.19)	5.0 (0.20)	12.5 (0.49)	95.5 (3.76)	2.3 (0.09)
100 x 50 (3.94) x (1.97)	99.6 (3.92)	48.0 (1.89)	99.6 (3.92)	34.8 (1.37)	5.0 (0.20)	12.5 (0.49)	45.5 (1.79)	2.0 (0.08)
100 x 75 (3.94) x (2.95)	99.6 (3.92)	73.2 (2.88)	99.6 (3.92)	57.6 (2.27)	5.0 (0.20)	12.5 (0.49)	70.5 (2.78)	2.5 (0.10)
100 x 100 (3.94) x (3.94)	99.6 (3.92)	97.8 (3.85)	99.6 (3.92)	81.0 (3.19)	5.0 (0.20)	12.5 (0.49)	99.5 (3.76)	2.5 (0.10)

For tool information refer to www.panduit.com/tools.

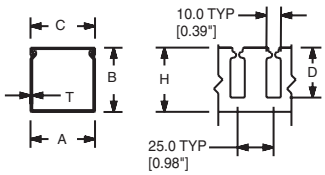
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

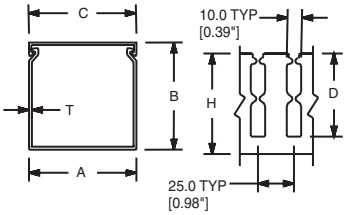
Panduct® Type TNC and Type NNC Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduct Customer Service at 800-777-3300 for specific dimensional needs.

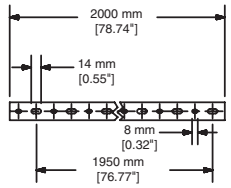
For 25mm, 37.5mm, and 50mm high duct.



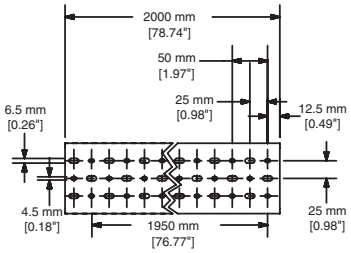
For 75mm and 100mm high duct.



Mounting Hole Dimensions
For 25mm, 37.5mm, and 50mm width duct.



For 75mm and 100mm width duct.



	Duct Size (W x H)	Dimensions – mm (Inches)					
		A	B	C	D	H	T
	25 x 25 (0.98) x (0.98)	24.6 (0.97)	23.6 (0.93)	24.6 (0.97)	13.6 (0.54)	20.5 (0.81)	1.4 (0.06)
>	25 x 37 (0.98) x (1.48)	24.6 (0.97)	35.8 (1.41)	24.6 (0.97)	24.6 (0.97)	33.0 (1.30)	1.8 (0.07)
	25 x 50 (0.98) x (1.97)	24.6 (0.97)	47.8 (1.88)	24.6 (0.97)	34.8 (1.37)	45.5 (1.79)	2.0 (0.08)
>	25 x 75 (0.98) x (2.46)	24.6 (0.97)	72.4 (2.85)	24.6 (0.97)	57.6 (2.27)	70.5 (2.78)	2.0 (0.08)
>	37.5 x 37.5 (1.48) x (1.48)	37.1 (1.46)	35.8 (1.41)	37.1 (1.46)	24.7 (0.97)	33.0 (1.30)	1.8 (0.07)
	37.5 x 50 (1.48) x (1.97)	37.1 (1.46)	47.8 (1.88)	37.1 (1.46)	34.8 (1.37)	45.5 (1.79)	2.0 (0.08)
>	37.5 x 75 (1.48) x (2.95)	37.1 (1.46)	72.4 (2.85)	37.1 (1.46)	57.6 (2.27)	70.5 (2.78)	2.0 (0.08)
>	50 x 50 (1.97) x (1.97)	49.5 (1.95)	47.8 (1.88)	49.5 (1.95)	34.8 (1.37)	45.5 (1.79)	2.0 (0.08)
	50 x 75 (1.97) x (2.95)	49.5 (1.95)	72.4 (2.85)	49.5 (1.95)	57.6 (2.27)	70.5 (2.78)	2.0 (0.08)
	50 x 100 (1.97) x (3.94)	49.5 (1.95)	97.8 (3.85)	49.6 (1.95)	81.0 (3.19)	95.5 (3.76)	2.3 (0.09)
>	75 x 75 (2.95) x (2.95)	74.7 (2.94)	72.4 (2.85)	74.7 (2.94)	57.6 (2.27)	70.5 (2.78)	2.0 (0.08)
>	100 x 50 (3.94) x (1.97)	99.6 (3.92)	47.8 (1.88)	99.6 (3.92)	34.8 (1.37)	45.5 (1.79)	2.0 (0.08)
>	100 x 75 (3.94) x (2.95)	99.6 (3.92)	72.4 (2.85)	99.6 (3.92)	57.6 (2.27)	70.5 (2.78)	2.0 (0.08)
	100 x 100 (3.94) x (3.94)	99.6 (3.92)	97.8 (3.85)	99.6 (3.92)	81.0 (3.19)	99.5 (3.76)	2.3 (0.09)

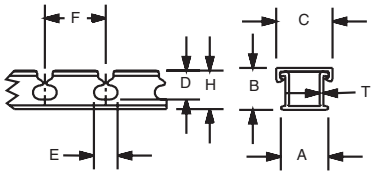
> Available in type TNC.
For tool information refer to www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

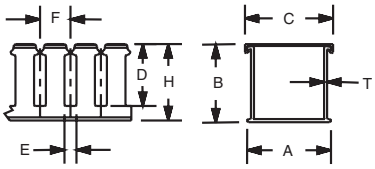
Panduct® Type NE and NS Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

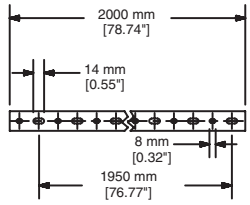
For .5" high duct.



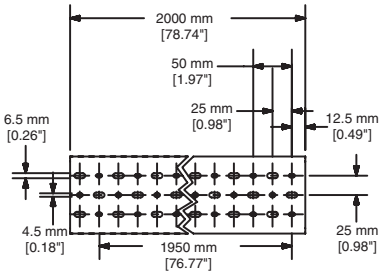
For 1", 1.5", 2", 3", 4" and 5" high duct.



Mounting Hole Dimensions
For 25mm, 37.5mm, and 50mm width duct.



For 75mm and 100mm width duct.



Duct Size (W x H)	Dimensions – Inches (mm)								
	A	B	C	D	E	F	H	K	T
0.5 x 0.5 (12.7) x (12.7)	0.63 (16.0)	0.56 (14.2)	0.69 (17.5)	0.38 (9.7)	0.37 (9.4)	0.80 (20.3)	0.50 (12.7)	ON CENTERLINE	0.05 (1.3)
0.5 x 1 (12.7) x (25.4)	0.63 (16.0)	1.06 (26.9)	0.69 (17.5)	0.75 (19.1)	0.31 (7.9)	0.80 (20.3)	1.00 (25.4)		0.06 (1.5)
> 1 x 1 (25.4) x (25.4)	1.14 (29.0)	1.06 (26.9)	1.25 (31.8)	0.75 (19.1)	0.31 (7.9)	0.80 (20.3)	1.00 (25.4)		0.06 (1.5)
1 x 1.5 (25.4) x (38.1)	1.14 (29.0)	1.62 (41.1)	1.25 (31.8)	1.20 (30.5)	0.31 (7.9)	0.80 (20.3)	1.50 (38.1)		0.07 (1.8)
1 x 2 (25.4) x (50.8)	1.14 (29.0)	2.06 (52.3)	1.25 (31.8)	1.63 (41.4)	0.31 (7.9)	0.80 (20.3)	2.00 (50.8)		0.07 (1.8)
1 x 3 (25.4) x (76.2)	1.14 (29.0)	3.06 (77.7)	1.25 (31.8)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)		0.07 (1.8)
1 x 4 (25.4) x (101.6)	1.14 (29.0)	4.06 (103.1)	1.25 (31.8)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)		0.08 (2.0)
1.5 x 1.5 (38.1) x (38.1)	1.64 (41.7)	1.62 (41.1)	1.75 (44.5)	1.20 (30.5)	0.31 (7.9)	0.80 (20.3)	1.50 (38.1)		0.07 (1.8)
1.5 x 2 (38.1) x (50.8)	1.64 (41.7)	2.06 (52.3)	1.75 (44.5)	1.63 (41.4)	0.31 (7.9)	0.80 (20.3)	2.00 (50.8)		0.07 (1.8)
1.5 x 3 (38.1) x (76.2)	1.64 (41.7)	3.06 (77.7)	1.75 (44.5)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)		0.07 (1.8)
1.5 x 4 (38.1) x (101.6)	1.64 (41.7)	4.06 (103.1)	1.75 (44.5)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)		0.08 (2.0)
2 x 1 (50.8) x (25.4)	2.14 (54.4)	1.08 (27.4)	2.25 (57.2)	.75 (19.1)	0.31 (7.9)	0.80 (20.3)	1.00 (25.4)	0.50 (12.7)	0.06 (1.5)
> 2 x 2 (50.8) x (50.8)	2.14 (54.4)	2.08 (52.8)	2.25 (57.2)	1.63 (41.4)	0.31 (7.9)	0.80 (20.3)	2.00 (50.8)	0.50 (12.7)	0.07 (1.8)
2 x 3 (50.8) x (76.2)	2.14 (54.4)	3.06 (77.7)	2.25 (57.2)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)	0.50 (12.7)	0.07 (1.8)
2 x 4 (50.8) x (101.6)	2.14 (54.4)	4.06 (103.1)	2.25 (57.2)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	0.50 (12.7)	0.08 (2.0)
3 x 1 (76.2) x (25.4)	3.14 (79.8)	1.06 (26.9)	3.25 (82.6)	0.75 (19.1)	0.31 (7.9)	0.80 (20.3)	1.00 (25.4)	1.00 (25.4)	0.06 (1.5)
3 x 2 (76.2) x (50.8)	3.14 (79.8)	2.06 (52.3)	3.25 (82.6)	1.63 (41.4)	0.31 (7.9)	0.80 (20.3)	2.00 (50.8)	1.00 (25.4)	0.07 (1.8)
3 x 3 (76.2) x (76.2)	3.14 (79.8)	3.06 (77.7)	3.25 (82.6)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)	1.00 (25.4)	0.07 (1.8)
3 x 4 (76.2) x (101.6)	3.14 (79.8)	4.06 (103.1)	3.25 (82.6)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	1.00 (25.4)	0.08 (2.0)
3 x 5 (76.2) x (127.0)	3.14 (79.8)	5.06 (128.5)	3.25 (82.6)	4.63 (117.6)	0.38 (9.7)	1.33 (33.8)	5.00 (127.0)	1.00 (25.4)	0.09 (2.3)
4 x 2 (101.6) x (50.8)	4.14 (105.2)	2.06 (52.3)	4.25 (108.0)	1.63 (41.4)	0.31 (7.9)	.80 (20.3)	2.00 (50.8)	1.50 (38.1)	0.07 (1.8)
4 x 3 (101.6) x (76.2)	4.14 (105.2)	3.06 (77.7)	4.25 (108.0)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)	1.50 (38.1)	0.07 (1.8)
> 4 x 4 (101.6) x (101.6)	4.14 (105.2)	4.06 (103.1)	4.25 (108.0)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	1.50 (38.1)	0.08 (2.0)
4 x 5 (101.6) x (127.0)	4.14 (105.2)	5.06 (128.5)	4.25 (108.0)	4.63 (117.6)	0.38 (9.7)	1.33 (33.8)	5.00 (127.0)	1.50 (38.1)	0.09 (2.3)

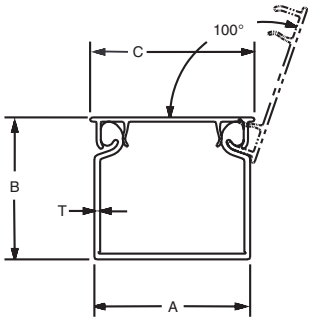
> NS Solid Duct availability.
Note: For type NS wiring duct, no mounting holes is the standard condition.
For tool information refer to www.panduit.com/tools.

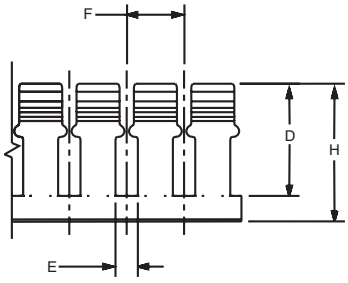
Order number of pieces required, in multiples of Standard Package Quantity.

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Panduct® Type H and HS Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduct Customer Service at 800-777-3300 for specific dimensional needs.



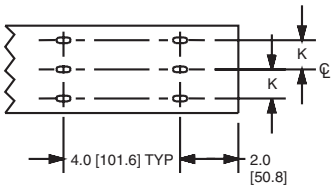


	E	F
For 2" duct height:	0.31" [7.9]	0.80" [20.3]
3" to 4" duct height:	0.31" [7.9]	1.00" [25.4]

Duct Size (W x H)	Dimensions – mm (Inches)								
	A	B	C	D	E	F	H	K	T
1.5 x 2 (38.1) x (50.8)	1.75 (44.5)	1.98 (50.3)	1.89 (48.0)	1.63 (41.4)	0.31 (7.9)	0.80 (20.3)	1.92 (48.8)	On CL	0.08 (2.0)
1.5 x 3 (38.1) x (76.2)	1.75 (44.5)	3.06 (77.7)	1.89 (48.0)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)		0.10 (2.5)
2 x 2 (50.8) x (50.8)	2.17 (55.1)	1.98 (50.3)	2.29 (58.2)	1.57 (39.9)	0.31 (7.9)	.80 (20.3)	1.92 (48.8)	0.50 (12.7)	0.08 (2.0)
2 x 3 (50.8) x (76.2)	2.17 (55.1)	3.06 (77.7)	2.29 (58.2)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)	0.50 (12.7)	0.10 (2.5)
2 x 4 (50.8) x (101.6)	2.17 (55.1)	4.1 (104.1)	2.29 (58.2)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	0.50 (12.7)	0.11 (2.8)
3 x 3 (76.2) x (76.2)	3.25 (82.6)	3.06 (77.7)	3.39 (86.1)	2.63 (66.8)	0.31 (7.9)	1.00 (25.4)	3.00 (76.2)	1.00 (25.4)	0.10 (2.5)
3 x 4 (76.2) x (101.6)	3.25 (82.6)	4.1 (104.1)	3.39 (86.1)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	1.00 (25.4)	0.11 (2.8)
4 x 4 (101.6) x (101.6)	4.25 (108.0)	4.1 (104.1)	4.39 (111.5)	3.63 (92.2)	0.31 (7.9)	1.00 (25.4)	4.00 (101.6)	1.50 (38.1)	0.11 (2.8)

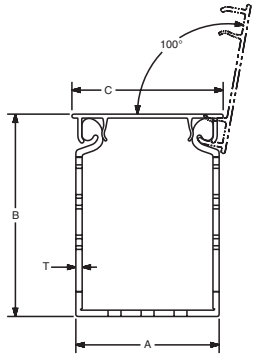
For tool information refer to www.panduit.com/tools.
Note: For type HS wiring duct, no mounting holes is the standard condition.

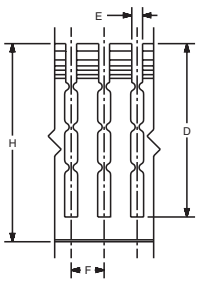
For 2", 3", and 4" wide duct.



Panduct® Type HN Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduct Customer Service at 800-777-3300 for specific dimensional needs.



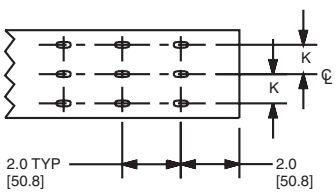


Multiple slot restrictors present with 2" and greater duct wall height.

Duct Size (W x H)	Dimensions – mm (Inches)								
	A	B	C	D	E	F	H	K	T
1.5 x 2 (38.1) x (50.8)	1.75 (44.5)	1.98 (50.3)	1.89 (48.0)	1.55 (39.4)	0.20 (5.0)	0.50 (12.7)	1.92 (48.8)	On CL	0.08 (2.0)
1.5 x 3 (38.1) x (76.2)	1.75 (44.5)	3.06 (77.7)	1.89 (48.0)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)		0.10 (2.5)
2 x 2 (50.8) x (50.8)	2.17 (55.1)	1.98 (50.3)	2.29 (58.2)	1.55 (39.4)	0.20 (5.0)	0.50 (12.7)	1.92 (48.8)	0.50 (12.7)	0.08 (2.0)
2 x 3 (50.8) x (76.2)	2.17 (55.1)	3.06 (77.7)	2.29 (58.2)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)	0.50 (12.7)	0.10 (2.5)
2 x 4 (50.8) x (101.6)	2.17 (55.1)	4.1 (104.1)	2.29 (58.2)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	0.50 (12.7)	0.11 (2.8)
3 x 3 (76.2) x (76.2)	3.25 (82.6)	3.06 (77.7)	3.39 (86.1)	2.63 (66.8)	0.20 (5.0)	0.50 (12.7)	3.00 (76.2)	1.00 (25.4)	0.10 (2.5)
3 x 4 (76.2) x (101.6)	3.25 (82.6)	4.1 (104.1)	3.39 (86.1)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	1.00 (25.4)	0.11 (2.8)
4 x 4 (101.6) x (101.6)	4.25 (108.0)	4.1 (104.1)	4.39 (111.5)	3.63 (92.2)	0.20 (5.0)	0.50 (12.7)	4.00 (101.6)	1.50 (38.1)	0.11 (2.8)

For tool information refer to www.panduit.com/tools.

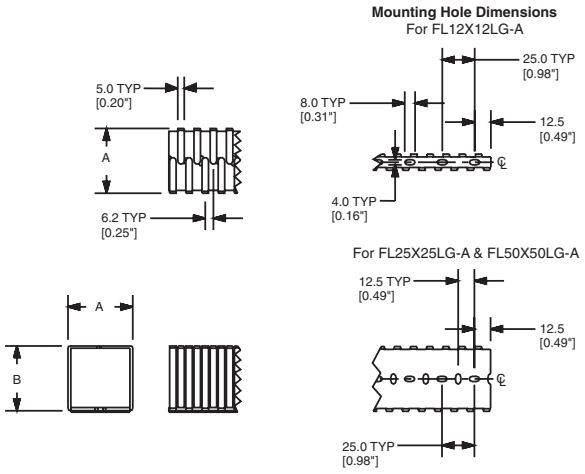
For 2", 3", and 4" wide duct.



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Panduct® Type FL Wiring Duct Dimensions

Dimensions are shown for reference only.
Dimensions are in mm (in.). Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.



Nominal Duct Size (W x H) mm	Dimensions – mm (In.)	
	A	B
12 x 12 (0.49) x (0.49)	12.5 (0.49)	12.5 (0.49)
25 x 25 (0.98) x (0.98)	25.0 (0.98)	25.0 (0.98)
50 x 50 (1.97) x (1.97)	50.0 (1.97)	50.0 (1.97)

Note: Type FL wiring duct has factory applied adhesive. For 50 x 50 two strips of tape are used; otherwise, only one strip is centered on the part.

Note: 'B' dimension is without adhesive.

Panduct® PanelMax™ DIN Rail Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.		Nominal Area In.²	Electrical															Communication				
			8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG		23/24 AWG	24 AWG	Fiber Cable
			0.216	0.164	0.13	0.141	0.152	0.111	0.124	0.133	0.096	0.111	0.118	0.084	0.100	0.106	0.085	0.298	0.289	0.250	0.187	0.118
			THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A		Cat. 6	Cat. 5e	3.0 mm
DRD22	6.25 x 2.15	4.760	51	88	140	119	103	193	154	134	258	193	170	337	238	211	329	26	28	38	68	170
DRD33	7.25 x 3.16	6.536	70	121	193	164	141	265	212	184	354	265	234	463	326	290	452	36	39	52	93	234
DRD44	8.25 x 4.16	9.180	98	170	271	230	198	372	298	259	498	372	329	650	459	408	635	51	54	73	131	329

Table shows maximum wirefill per channel based on 50% of duct internal cross sectional area. Formula = internal area/2.00 x D2.

Panduct® PanelMax™ Corner Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.		Area In.²	Electrical															Communication			
			8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
			0.216	0.164	0.13	0.141	0.152	0.111	0.124	0.133	0.096	0.111	0.118	0.084	0.100	0.106	0.085	0.330	0.250	0.190	0.118
			THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
CWD2	3.4 x 2.6	9.752	104	181	288	245	211	395	317	275	529	395	350	691	487	433	674	54	84	96	349
CWD3	4.4 x 3.6	17.580	188	326	520	442	380	713	571	496	953	713	631	1245	879	782	1216	80	140	243	630
CWD4	5.4 x 4.6	26.920	288	500	796	677	582	1092	875	760	1460	1092	966	1907	1346	1197	1862	123	215	372	964

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = area/2.00 x D².

Panduct® Type H, HN, and HS Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In.²	Electrical																Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		0.216	0.164	0.13	0.141	0.152	0.111	0.124	0.133	0.096	0.111	0.118	0.084	0.100	0.106	0.085	0.330	0.25	0.190	0.118
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
1.50 x 2.00	3.000	34	60	95	81	70	131	105	91	175	131	116	229	162	144	224	14	25	44	116
1.50 x 3.00	4.500	52	90	143	122	105	197	158	137	263	197	174	344	243	216	336	22	38	67	174
2.00 x 2.00	4.000	46	80	127	108	93	175	140	122	234	175	155	306	216	192	299	19	34	59	154
2.00 x 3.00	6.000	69	120	191	163	140	263	210	183	351	263	232	459	324	288	448	29	51	89	232
2.00 x 4.00	8.000	92	160	255	217	187	350	281	244	469	350	310	612	432	384	598	39	69	119	309
3.00 x 3.00	9.000	104	180	287	244	210	394	316	275	527	394	349	689	486	432	673	44	77	134	348
3.00 x 4.00	12.000	139	241	383	326	280	526	421	366	703	526	465	919	648	577	897	59	103	179	464
4.00 x 4.00	16.000	185	321	511	435	374	701	562	488	938	701	621	1225	864	769	1197	79	138	239	619

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/1.85 x D². See page C1.50 for wiring duct color and size availability. AWG dimensions represent typical outer cable diameter in inches.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type D, G, F and FS Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In.²	Electrical															Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		0.216	0.164	0.13	0.141	0.152	0.111	0.124	0.133	0.096	0.111	0.118	0.084	0.100	0.106	0.085	0.330	0.25	0.190	0.118
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
0.50 x 0.50	0.250	3	5	8	7	6	11	9	8	15	11	10	20	14	12	19	1	2	3	10
0.50 x 1.00	0.500	6	10	16	14	12	23	18	16	31	23	20	40	28	25	39	2	4	7	20
0.50 x 2.00	1.000	12	21	33	28	24	46	37	32	62	46	41	80	57	50	79	5	9	15	40
0.75 x 0.75	0.563	6	11	19	16	13	26	20	18	34	26	23	45	32	28	44	2	5	8	23
0.75 x 1.00	0.750	9	15	25	21	18	34	27	24	46	34	30	60	42	38	59	3	6	11	30
0.75 x 1.50	1.125	13	23	38	32	27	52	41	36	69	52	46	91	64	57	88	5	10	17	46
0.75 x 2.00	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	7	13	23	61
1.00 x 1.00	1.000	12	21	33	28	24	46	37	32	62	46	41	80	57	50	79	5	9	15	40
1.00 x 1.50	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	7	13	23	61
1.00 x 2.00	2.000	24	42	67	57	49	92	74	64	124	92	82	161	114	101	158	10	18	31	81
1.00 x 3.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	15	27	47	122
1.00 x 4.00	4.000	48	84	135	114	98	185	148	129	248	185	164	323	228	203	316	20	36	63	163
1.50 x 1.00	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	7	13	23	61
1.50 x 1.50	2.250	27	47	76	64	55	104	83	72	139	104	92	182	128	114	177	11	20	35	92
1.50 x 2.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	15	27	47	122
1.50 x 3.00	4.500	55	95	152	129	111	208	167	145	279	208	184	364	257	228	355	23	41	71	184
1.50 x 4.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	31	54	94	245
2.00 x 1.00	2.000	24	42	67	57	49	92	74	64	124	92	82	161	114	101	158	10	18	31	81
2.00 x 1.50	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	15	27	47	122
2.00 x 2.00	4.000	48	84	135	114	98	185	148	129	248	185	164	323	228	203	316	20	36	63	163
2.00 x 3.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	31	54	94	245
2.00 x 4.00	8.000	97	169	270	229	197	371	297	258	496	371	328	647	457	406	632	41	73	126	327
2.00 x 5.00	10.000	122	212	338	287	247	463	371	323	620	463	410	809	571	508	790	52	91	158	409
2.50 x 3.00	7.500	91	159	253	215	185	347	278	242	465	347	307	607	428	381	593	39	68	118	307
3.00 x 1.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	15	27	47	122
3.00 x 2.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	31	54	94	245
3.00 x 3.00	9.000	110	191	304	258	222	417	334	290	558	417	369	728	514	457	711	47	82	142	368
3.00 x 4.00	12.000	146	254	405	344	296	556	445	387	744	556	492	971	685	610	949	62	109	189	491
3.00 x 5.00	15.000	183	318	507	431	370	695	557	484	930	695	615	1214	857	762	1186	78	137	237	614
4.00 x 1.50	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	31	54	94	245
4.00 x 2.00	8.000	97	169	270	229	197	371	297	258	496	371	328	647	457	406	632	41	73	126	327
4.00 x 3.00	12.000	146	254	405	344	296	556	445	387	744	556	492	971	685	610	949	62	109	189	491
4.00 x 4.00	16.000	195	339	540	459	395	742	594	516	992	742	656	1295	914	813	1265	83	146	253	655
4.00 x 5.00	20.000	244	424	676	574	494	927	743	646	1240	927	820	1619	1142	1017	1581	104	182	316	819
6.00 x 4.00	24.000	293	509	811	689	593	1113	891	775	1488	1113	984	1943	1371	1220	1898	125	219	379	983

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/1.75 x D². See page C1.50 for wiring duct color and size availability. Not all sizes available for each duct type.
AWG dimensions represent typical outer cable diameter in inches.
For tool information refer to www.panduit.com/tools.

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Panduct® Types MC, TNC, and NNC Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) mm	Nominal Area mm²	Electrical															Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		5.5	4.2	3.3	3.6	3.9	2.8	3.1	3.4	2.4	2.8	3.0	2.1	2.5	2.7	2.2	8.4	6.4	4.8	3.0
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
25 x 25	625	11	20	32	27	23	44	36	31	60	44	39	78	55	49	76	5	8	15	39
25 x 37	925	17	30	48	41	35	66	53	46	88	66	58	116	81	72	113	7	13	22	58
25 x 50	1250	23	41	65	55	47	89	72	62	120	89	79	156	110	98	153	10	17	30	79
25 x 62	1550	29	51	81	69	59	111	89	77	148	111	98	194	137	122	190	12	21	38	98
25 x 75	1875	35	61	98	83	71	134	108	93	180	134	119	235	166	147	229	15	26	46	119
37 x 37	1369	25	45	71	60	52	98	78	68	131	98	87	171	121	107	167	11	19	33	86
37 x 50	1850	35	60	96	82	70	132	106	92	177	132	117	232	163	145	226	15	26	45	117
37 x 62	2294	43	75	120	102	87	164	132	114	220	164	145	287	203	180	281	18	32	56	145
37 x 75	2775	52	91	145	123	106	199	159	138	266	199	176	348	245	218	340	22	39	68	176
50 x 50	2500	47	82	131	111	95	179	144	125	240	179	159	313	221	197	306	20	35	61	158
50 x 75	3750	71	123	196	167	143	269	216	187	360	269	238	470	332	295	459	30	53	92	238
50 x 100	5000	94	164	262	222	191	359	288	250	480	359	318	627	442	394	612	40	70	122	317
62 x 62	3844	72	126	201	171	147	276	221	192	369	276	244	482	340	303	471	31	54	94	244
75 x 50	3750	71	123	196	167	143	269	216	187	360	269	238	470	332	295	459	30	53	92	238
75 x 62	4650	88	153	243	207	178	334	267	232	446	334	295	583	411	366	570	37	65	114	295
75 x 75	5625	106	185	294	250	215	404	324	281	540	404	357	706	498	443	689	45	79	138	357
75 x 100	7500	142	246	393	334	287	539	432	375	720	539	477	941	664	591	919	60	106	184	476
100 x 50	5000	94	164	262	222	191	359	288	250	480	359	318	627	442	394	612	40	70	122	317
100 x 75	7500	142	246	393	334	287	539	432	375	720	539	477	941	664	591	919	60	106	184	476
100 x 100	10000	189	329	524	445	383	718	576	500	961	718	636	1255	885	788	1225	81	141	245	634

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/1.75 x D2. See page C1.50 for wiring duct color and size availability. Not all sizes available for each duct type.
AWG dimensions represent typical outer cable diameter in millimeters.
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Type NE Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In.²	Electrical															Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		0.216	0.164	0.13	0.141	0.152	0.111	0.124	0.133	0.096	0.111	0.118	0.084	0.100	0.106	0.085	0.330	0.25	0.190	0.118
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
0.50 x 0.50	0.250	2	4	7	6	5	10	8	7	13	10	8	17	12	11	17	1	2	3	8
0.50 x 1.00	0.500	5	9	14	12	10	20	16	14	27	20	17	35	25	22	34	2	4	6	17
1.00 x 1.00	1.000	10	18	29	25	21	40	32	28	54	40	35	70	50	44	69	4	8	13	35
1.00 x 1.50	1.500	16	27	44	37	32	60	48	42	81	60	53	106	75	66	103	6	12	20	53
1.00 x 2.00	2.000	21	37	59	50	43	81	65	56	108	81	71	141	100	88	138	9	16	27	71
1.00 x 3.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	207	13	24	41	107
1.00 x 4.00	4.000	42	74	118	100	86	162	130	113	217	162	143	283	200	177	276	18	32	55	143
1.50 x 1.50	2.250	24	41	66	56	48	91	73	63	122	91	80	159	112	100	155	10	18	31	80
1.50 x 2.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	207	13	24	41	107
1.50 x 3.00	4.500	48	83	133	113	97	182	146	127	244	182	161	318	225	200	311	20	36	62	161
1.50 x 4.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215
2.00 x 1.00	2.000	21	37	59	50	43	81	65	56	108	81	71	141	100	88	138	9	16	27	71
2.00 x 2.00	4.000	42	74	118	100	86	162	130	113	217	162	143	283	200	177	276	18	32	55	143
2.00 x 3.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215
2.00 x 4.00	8.000	85	148	236	201	173	324	260	226	434	324	287	566	400	355	553	36	64	110	286
3.00 x 1.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	205	13	24	41	107
3.00 x 2.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215
3.00 x 3.00	9.000	96	167	266	226	194	365	292	254	488	365	323	637	450	400	622	41	72	124	322
3.00 x 4.00	12.000	128	223	355	301	259	486	390	339	651	486	430	850	600	533	830	55	96	166	430
3.00 x 5.00	15.000	160	278	443	377	324	608	487	423	813	608	538	1062	750	667	1038	68	120	207	537
4.00 x 2.00	8.000	85	148	236	201	173	324	260	226	434	324	287	566	400	355	553	36	64	110	286
4.00 x 3.00	12.000	128	223	355	301	259	486	390	339	651	486	430	850	600	533	830	55	96	166	430
4.00 x 4.00	16.000	171	297	473	402	346	649	520	452	868	649	574	1133	800	711	1107	73	128	221	573
4.00 x 5.00	20.000	214	371	591	502	432	811	650	565	1085	811	718	1417	1000	889	1384	91	160	277	716

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/2.00 x D2.
AWG dimensions represent typical outer cable diameter in inches.
For tool information refer to www.panduit.com/tools.

Panduct® Type FL Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) mm	Nominal Area mm²	Electrical															Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		5.5	4.2	3.3	3.6	3.9	2.8	3.1	3.4	2.4	2.8	3.0	2.1	2.5	2.7	2.2	8.4	6.4	4.8	3.0
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
12 x 12	144	1	3	5	4	3	7	5	5	9	7	6	12	8	7	12	0	1	2	6
25 x 25	625	8	14	22	19	16	31	25	21	42	31	27	54	38	34	53	3	6	10	27
50 x 50	2500	33	57	91	77	67	125	100	87	168	125	111	219	155	137	214	14	24	42	111

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/2.50 x D2.
AWG dimensions represent typical outer cable diameter in millimeters.
For tool information refer to www.panduit.com/tools.

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Wirefill Formula

General Formula

Panduit Wiring Duct wirefills are calculated using the following general formula:

$$50\%\ \text{Wirefill} = 50\%\ \text{of} \left(\frac{\text{Usable Duct Area}}{\text{Wire Area}}\right)$$

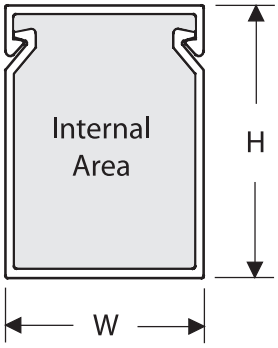
Why use a 50% Wirefill?

As specified in NFPA79-2015 section 13.5.2, *Percentage Fills of Raceways (Ducts),* a 50% wirefill is given as the maximum wirefill capacity in all Panduit Wiring Ducts. This helps ensure general safe wiring practices are followed. In actual practice, a 50% wirefill is the maximum amount of wiring the duct can hold given the additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.

What is the Usable Duct Area?

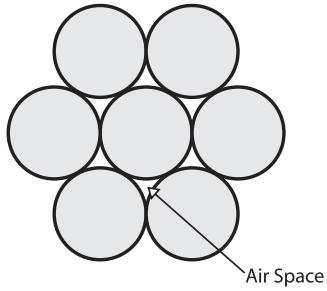
The usable area we define as the calculation of internal area that can be occupied by wires or cables.

Calculation of Internal Area



Since we use the outer channel dimensions in our calculation, we make an adjustment in our formula for the thickness of material and for design elements that extend inside the channel.

Air Space Allotment



In our wirefill formula an adjustment is made to the channel internal area to account for "unusable" air space that will be present between cables when placed in the channel. Our formula assumes a uniform close packed or high-density cable arrangement (see diagram) (Note 1).

Considering these factors, the usable duct area is equal to an average of 90% of the nominal area, or (W x H) x 0.90.

Wire Area

The wire area formula is converted to allow calculation using the cable diameter:

$$A_{WIRE} = \pi r^2$$
$$A_{WIRE} = (\pi/4) \times D^2$$
$$A_{WIRE} = 0.785 \times D^2$$

Formula Derivation

Inserting the elements from above into the general formula results in the following:

$$50\%\ \text{Wirefill} = 0.50 \left(\frac{(W \times H) \times 0.90}{0.785 \times D^2}\right)$$

Simplifying this formula results in the formula used for wirefill calculation (Note 2):

$$50\%\ \text{Wirefill} = \left(\frac{W \times H}{1.75 \times D^2}\right)$$

Note: When calculating wirefill capacity using the above formula, variables W, H, and D must be expressed in same units (i.e. mm or inches).

1 This calculation does not account for additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.
2 The resulting formula is used for all Panduit flush cover ducts, this excludes type NE duct which has a different profile design that results in a divisor of 2.0 x D2 (rather than 1.75 x D2 as shown here) and all Hinged Wiring Duct: H, HN, HS with a profile design that results in a divisor of 1.85 x D2 and corner wiring duct which uses calculated internal area and a divisor of 2.0 x D2.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduct® Wiring Duct Material Specifications

Properties	Units	Test Method	Lead-Free PVC	Halogen-Free PPO (NNC, NE, NS)	Low-Smoke, Halogen-Free PPE + HIPS (TNC)	Polypropylene (FL)
General						
Specific gravity	g/cc	ASTM D 792	1.45	1.09	1.11	0.95
Heat deflection temperature @264 psi	°F	ASTM D 648	156	215	223	117
Thermal expansion	10-5 in/in/°F	ASTM D 696	3.7	3.8		N/A
Thermal conductivity	(BTU-in/hr-ft²)°F	ASTM C 177	1.3	1.3		N/A
Burning Characteristics						
Flammability class	—	UL 94	V-0	V-0	V-0	V-2
Smoke density @ 4 minutes	—	ASTM E 662	538	513	66	N/A
Limited oxygen index (LOI)	—	ASTM D 2863	35	30	28	25
Peak heat release rate	kW/m²	ASTM E 1354	N/A	N/A	N/A	N/A
Hardness						
Durometer hardness	"D"	ASTM D 2240	78	N/A	N/A	N/A
Rockwell hardness	"R"	ASTM D 785	111	116	N/A	N/A
Tensile						
Yield Strength	psi	ASTM D 638	6,200	7,700	8,100	3,770
Modulus	psi		390,000	350,000	355,000	172,000
Flexural						
Yield Strength	psi	ASTM D 790	8,700	11,500	11,500	4,350
Modulus	psi		325,000	340,000	340,000	181,250
Impact strength						
Notched Izod (.125")						
23°C (73°F)	ft-lb/in	ASTM D 256	4.0	5.0	3.7	1.8
0°C (32°F)	ft-lb/in		1.6	2.0	N/A	N/A
Electrical Properties						
Power factor:						
60 Hz @30°C (86°F)	—	ASTM D 150	2.90	N/A	N/A	N/A
1 MHz @30°C (86°F)	—		4.00	N/A	N/A	N/A
Dielectric constant:						
60 Hz @30°C (86°F)	—	ASTM D 150	3.90	N/A	N/A	N/A
1 MHz @30°C (86°F)	—		3.30	N/A	N/A	N/A
Dielectric strength:						
Unconditioned	volts/mil	ASTM D 149	690	N/A	N/A	N/A
Conditioned	volts/mil		700	N/A	N/A	N/A

Note: To the best of our knowledge the above information is accurate.
Panduit assumes no liability for the accuracy or completeness of this information.
For tool information refer to www.panduit.com/tools.

Rigid Polyvinyl Chloride (PVC)
A general purpose lead-free material for indoor applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 122°F (50°C). Used in the manufacture of the following types of Panduit wiring duct and covers: G, F, D, FS, MC, H, HN, HS, CWD, DRD.

Halogen-Free, Polyphenylene Oxide (PPO)
A special purpose material for use in halogen-free or high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 95°C (203°F) and is 20% lighter than PVC. Used in the manufacture of the following types of Panduit wiring duct and covers: NE, NS and NNC.

Low-Smoke, Halogen-Free, Polyphenylene Ether + High Impact Polystyrene (PPE + HIPS)
A special purpose material for use in low-smoke, halogen-free, and high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 221°F (105°C). Meets the regulatory requirements of the mass transit industry and other applications where fire and public safety are critical; such as in trains, buses, offshore oil and gas platforms, and other similar environments. Used in the manufacture of Type TNC wiring duct and covers.

Polypropylene (PP)
A flexible material with a UL 94 flame class of V-2 with a UL recognized continuous-use temperature up to 65°C (149°F). Used in the manufacture of Type FL flexible wiring duct.

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Panduct® Wiring Duct – Color and Size Selection

Duct Size W X H (Inches)	Duct Size W X H (Metric)	LG Light Gray										WH White										BL Black						IB Intrinsic Blue^		IG International Gray
0.5 X 0.5	12 x 12	G	F	FS						FL		G	F	FS		NE														
0.5 X 1		G	F	FS								G	F			NE														
0.5 X 2		G										G																		
0.75 X 0.75		G	F	FS								G	F																	
0.75 X 1		G										G																		
0.75 X 1.5		G	F									G	F																	
0.75 X 2		G										G										G								
1 X 1	25 X 25	G	F	FS					NNC	FL		G	F	FS		NE				NNC	MC	G	F	FS				G	F	MC
1 X 1.5	25 X 37	G	F	FS					NNC		TNC	G	F			NE				NNC	MC	G	F					G	F	MC
1 X 2	25 X 50	G	F	FS	D				NNC			G	F			NE				NNC	MC	G	F		D			G	F	MC
1 X 2.5	25 X 62																				MC									MC
1 X 3	25 X 75	G	F	FS	D				NNC		TNC	G	F		D	NE				NNC	MC	G	F		D			G	F	MC
1 X 4	25 X 100	G	F	FS	D							G	F		D	NE						G	F		D			G	F	
1.5 X 1		G	F	FS								G	F	FS																
1.5 X 1.5	37 X 37	G	F	FS					NNC		TNC	G	F	FS		NE				NNC	MC	G	F	FS				G	F	MC
1.5 X 2	37 X 50	G	F	FS	D	H	HN	HS	NNC			G	F			NE	H	HN	HS	NNC	MC	G	F		D	H	HS	G	F	MC
1.5 X 2.5	37 X 62																				MC									MC
1.5 X 3	37 X 75	G	F	FS	D	H	HN	HS	NNC		TNC	G	F		D	NE	H	HN	HS	NNC	MC	G	F		D	H	HS	G	F	MC
1.5 X 4		G	F		D							G	F		D	NE						G	F		D			G	F	
2 X 1		G	F	FS								G	F	FS		NE						G	F							
2 X 1.5		G	F	FS								G	F	FS																
2 X 2	50 X 50	G	F	FS	D	H	HN	HS	NNC	FL	TNC	G	F	FS	D	NE	H	HN	HS	NNC	MC	G	F	FS	D	H	HS	G	F	MC
2 X 3	50 X 75	G	F	FS	D	H	HN	HS	NNC			G	F	FS	D	NE	H	HN	HS	NNC	MC	G	F		D	H	HS	G	F	MC
2 X 4	50 X 100	G	F	FS	D	H	HN	HS	NNC			G	F		D	NE	H	HN	HS	NNC	MC	G	F		D	H	HS	G	F	MC
2 X 5		G	F									G	F															G		
2.5 X 2.5	62 X 62																				MC									MC
2.5 X 3		G	F		D							G	F									G								
3 X 1		G	F	FS								G	F	FS		NE														
3 X 2	75 X 50	G	F	FS	D							G	F	FS		NE					MC	G	F	FS				G		MC
3 X 2.5	75 X 62																				MC									MC
3 X 3	75 X 75	G	F	FS	D	H	HN	HS	NNC		TNC	G	F	FS	D	NE	H	HN	HS	NNC	MC	G	F	FS	D	H	HS	G	F	MC
3 X 4	75 X 100	G	F	FS	D	H	HN	HS				G	F	FS	D	NE	H	HN	HS		MC	G	F		D	H	HS	G	F	MC
3 X 5		G	F	FS								G	F	FS		NE						G	F					G		
4 X 1.5		G		FS								G																		
4 X 2	100 X 50	G	F	FS	D				NNC		TNC	G	F	FS		NE				NNC	MC	G	F		D			G		MC
4 X 3	100 X 75	G	F	FS	D				NNC		TNC	G	F	FS		NE				NNC	MC	G	F					G	F	MC
4 X 4	100 X 100	G	F	FS	D	H	HN	HS	NNC			G	F	FS	D	NE	H	HN	HS	NNC	MC	G	F	FS	D	H	HS	G	F	MC
4 X 5		G	F	FS								G	F			NE						G	F							
6 X 4		G	F	FS								G	F	FS																

^Intrinsic Blue Color – IB
Intrinsic blue wiring duct is made from the same lead-free PVC material as our standard PVC duct. Intrinsic blue is an internationally recognized standard blue color that identifies the wiring duct as “incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentrations.” *ISA-RD12.6 (Instrument Society of America)

Duct Size W X H (Inches)	Duct Size W X H (Metric)	LG Light Gray		WH White	
3.35 x 2.54*	85.0 x 64.4	CWD		CWD	
4.40 x 3.57*	111.8 x 90.7	CWD		CWD	
5.33 x 4.58*	135.3 x 115.7	CWD		CWD	
6.25 x 2.12**	156.7 x 54.0		DRD		DRD
7.25 x 3.12**	184.1 x 79.4		DRD		DRD
8.25 x 4.12**	209.5 x 104.8		DRD		DRD

* Corner Duct Profile
** DIN Rail Duct Profile
For tool information refer to www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Installation Tips:
Application of Latex Paint on Panduct® Wiring Duct



The following is recommended to properly prepare the surface of the wiring duct/raceway and covers for the best adhesion of latex paint:

1. Clean surface with mild soap and water solution or mineral spirits with a clean lint free towel. Allow to dry.
2. Using a sanding pad (such as synthetic stripping pad or medium/fine steel wool), slightly roughen the surface to be painted.
3. Apply a coat of all-purpose 100% acrylic primer and allow to dry.
4. Apply the desired topcoat of latex paint and allow to dry.
5. Install the wiring duct/raceway and covers.

Cutting Wiring Duct and Cover

For small quantities, use the DCT duct cutting tool. For larger quantities use a miter cutting saw blade for clean burr-free cuts. Recommended blade: *Carbide 80T or 100T; 0.090" thickness, 0.125 kerf.*

Recommended Precaution when Using Type TNC, NNC, NE and NS Wiring Duct

Cleaning solvents and cutting fluids that contain any of the following chemical agents should not come in contact with type TNC, type NNC or type NE wiring duct. These chemicals are known to cause stress cracking in the halogen-free materials.

- Hydrocarbons
- Phenols
- Ketones
- Amines
- Ethers
- Organic, inorganic and oxidizing acids
- Petrol

Note: Panduit assumes no liability for the accuracy or completeness of this list.
Please see www.panduit.com for Wiring Duct Chemical Resistance document and acceptable lubricants.

Part Number System for Panduct® Wiring Duct

G	.5	X	.5	LG	6	-A
Type	**Nominal Width** In. or mm		**Nominal Height** In. or mm	**Color**	**Length** Ft. or m	-A = Adhesive Backed = Without Adhesive (leave blank) NM = No Mounting Holes

G = Wide Slot Flush Design
F = Narrow Slot Flush Design
FL = Flexible Duct
FS = Solid Wall Flush Design
H = Wide Slot Hinged Design
HN = Narrow Slot Hinged Design
HS = Solid Wall Hinged Design
D = Round Hole Flush Design
NNC = Halogen-Free Design
NE = Halogen-Free Wide Slot Design
NS = Halogen-Free Solid Wall Design
MC = Metric Narrow Slot Design
TNC = Low-Smoke, Halogen-Free Metric Design

LG = Light Gray
WH = White
BL = Black
IB = Intrinsic Blue
IG = International Gray

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Part Number System for Panduct® PanelMax™ DIN Rail Wiring Duct

DRD	22	LG	6
Type	**Size**	**Color**	**Length**
DRD = DIN Rail Duct	Capability Height 22 = 2" Height 33 = 3" Height 44 = 4" Height	LG = Light Gray WH = White	Ft.

Part Number System for Panduct® PanelMax™ Corner Wiring Duct

CWD	3	LG	6
Type	**Capability Height**	**Color**	**Length**
CWD = Corner Wiring Duct	2 = 2" Height 3 = 3" Height 4 = 4" Height	LG = Light Gray WH = White	Ft.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Panduit Wiring Duct Approvals and Compliances

Agency Mark	Agency	Requirement	Classification/Performance	Wiring Duct Types/Products
	Underwriters Laboratories, Inc. File No. E147128	UL 1565	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	All wiring duct types and covers
		UL 1565 CSA C22.2 No. 18.5-13	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	Type H, HS, HN, and DRD
	Underwriters Laboratories, Inc.	UL 508 Section 15	An insulating barrier material shall comply with the minimum material properties indicated in Table 15.1	PVC divider walls
		UL 508 Sections 34 and 181	Qualifies as a metal barrier with required thickness as indicated in Table 6.1	SD*EMI metal barrier
	Canadian Standards Association File No. 016446	CSA C22.2 No. 18.5-13	Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)	All wiring duct types and covers
	European Union	Low Voltage Directive 2014/35/EU	• CDS (cable ducting system for impact 2 J) • Minimum storage, transport, installation, and application temperature: -5°C (23°F) • Maximum application temperature: 60°C (140°F) • Non-flame propagating • Without electrical continuity • Cover removable without a tool	H, HS, G, F, D, MC, FS, NNC, NE, DRD, and TNC
		EN 50085-1 EN 50085-2-3		
		EN 45545-2	Type NNC and Type NE: Exterior (R23) - HL1 Type TNC: Interior (R22)- HL2 & Exterior (R23) - HL2	NNC, NE and TNC
	DIN German Institute for Standardization	DIN 43659	• Specifies dimensions for slotted trunkings used in electrical switch-gear assemblies and that conform to DIN VDE 060 Part 506 • Channel mounting hole pattern, slot dimensions, pitch, and location • Distance from first to last like-size mounting hole • Minimum overall product length	MC, NNC, and TNC
		DIN 5510-2 DIN 54837	Burning Class: S4 Smoke Class: SR2 Dripping Class: ST2	TNC
	AFNOR French Association of Normalization	NF F 16-101 NF F 16-102	Type NNC Wiring Duct Classification = F3/I4 Type TNC Wiring Duct Classification = F1/I4	NNC and TNC
	UNIFER Italian Railway Standards	EN ISO 11925-2	Pass 30-second flame application	TNC
	FRA – Federal Railroad Administration	49 CFR Part 238	Surface Flammability: < 35 Smoke Density Ds (1.5) < 100 Ds (4.0) < 200	TNC
	NFPA – National Fire Protection Association	NFPA130		
	National Fire Protection Association	NFPA 79-2015, Section 13.3.1 IEC 60332-1	Non-metallic duct shall be permitted (inside enclosures) only when they are made with a flame-retardant material; flame-retardant material is defined in the standard by the IEC 60332-1 test method	All wiring duct types and covers (except FL)
		NFPA 79-2015, Section 13.5.2	Panduit publishes a maximum percentage wire fill for common wire types equal to 50% of the interior cross-sectional area of the wiring duct	All wiring duct types and covers
		NFPA 79-2015, section 13.1.6.9	Panduit bend radius control accessories can be mounted at right angles and T junctions created using wiring duct in order to maintain cable bend radius control	Corner strip with 1" bend radius control
RoHS	European Union	European Union Directive 2011/65/EU.	Meets the requirements on the Restriction of Hazardous Substances and is free of the six substances listed in the directive	All wiring duct products

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Notes

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Surface Raceway

Pan-Way® Non-Metallic Surface Raceway is available in single-channel and multi-channel versions, providing maximum flexibility for routing, protecting and terminating high-performance copper, fiber optic and power cabling. All single-channel and multi-channel raceways offer a full complement of standard and/or power rated fittings and fully compliant bend radius control fittings to insure maximum cable performance.



The single-channel raceway includes LD, LDS, AND LDPH Raceway which are available in low voltage and/or power rated versions.

Single-Channel includes:

- **LD – a one-piece single-channel design for data routing only**
- **LDS – a solid one-piece single-channel design for power or data routing**
- **LDPH – a tamper resistant two-piece latching design supplied with adhesive**



The multi-channel raceway includes LD2P10, T-45, T-70, TG-70, Twin-70, Cove, and Above Floor Raceway. All multi-channel raceways provide solutions for routing power and data cabling, offer 1 inch bend radius control fittings and accept NEMA standard 70mm faceplates for multiple termination options.

Multi-Channel includes:

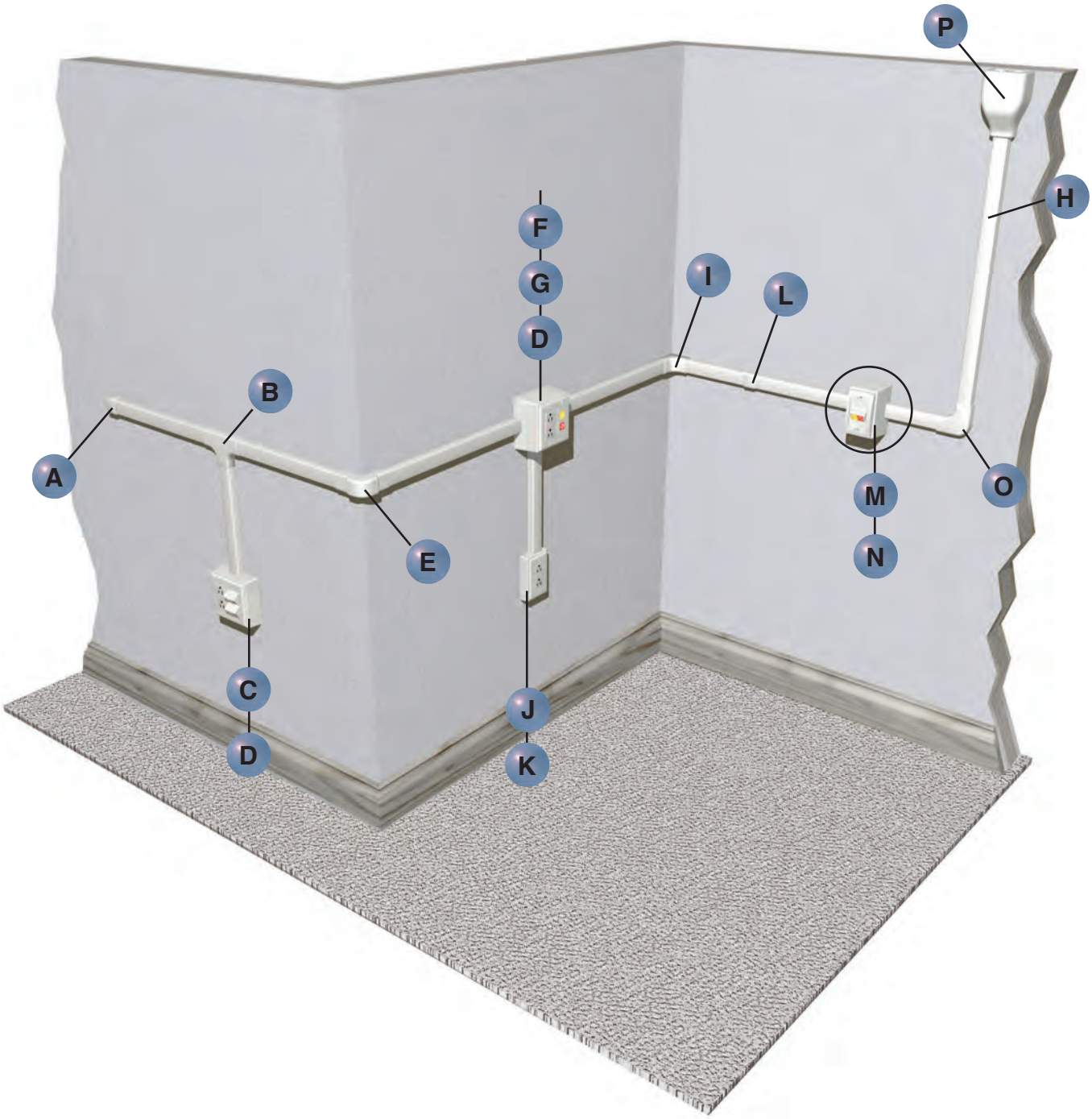
- **LD2P10 – a one-piece multi-channel design for both power and data applications**
- **T-45, T-70, TG-70, Twin-70 – a two-piece multi-channel design for both power and data applications**
- **Cove – a specialized raceway designed to route power and data in corners**
- **Above Floor – a low-profile raceway designed for power, data, and Audio Video systems**



Panduit ® Pan-Way ® Surface Raceways are part of the Panduit Enterprise Solution and offer ease of installation, modification and additions for safe and secure routing integration within the Enterprise and Data Center infrastructure at the lowest installed cost.

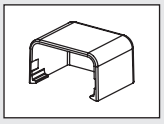
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LD Raceway Roadmap

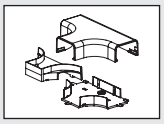


Order number of pieces required, in multiples of Standard Package Quantity.

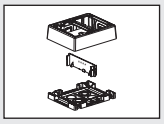
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



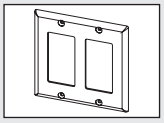
A ECFX10IW – Power Rated End Cap Fitting (page C2.7)



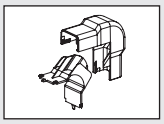
B TFXD10IW – One Inch Bend Radius Tee Fitting (page C2.8)



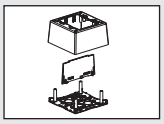
C JBP2SIW – Power Rated Double Gang Two-Piece Divided Box*



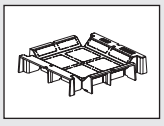
D CPGIW-2G – Double Gang Rectangular Screw-On Faceplate*



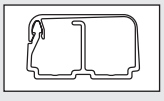
E OCFX10IW – One Inch Bend Radius Outside Corner Fitting (page C2.6)



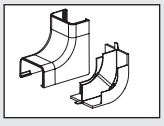
F JBP2DIW – Power Rated Double Gang Two-Piece Deep Box*



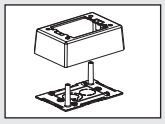
G JBD2 – Double Gang Pass Through Divider for LD2P10 Raceway*



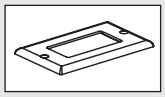
H LD2P10IW – Raceway (page C2.7)



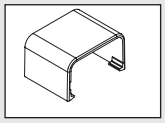
I ICFX10IW – Power Rated Inside Corner Fitting (page C2.7)



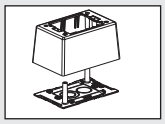
J JBP1IW – Power Rated Single Gang Two-Piece Box*



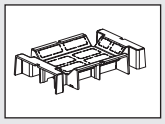
K CPGIW – Single Gang Rectangular Screw-On Faceplate*



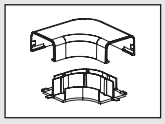
L CFX10IW – Power Rated Coupler Fitting (page C2.7, C2.8)



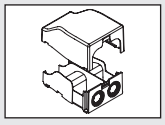
M JBP1DIW – Single Gang Two-Piece Deep Box*



N JBD1 – Single Gang Pass Through Divider for LD2P10 Raceway*



O RAFX10IW – Power Rated Right Angle Fitting (page C2.8)



P EEFXIW – Power Rated/One-Inch Bend Radius Entrance End Fitting (page C2.8)

*Visit www.panduit.com for part number information.

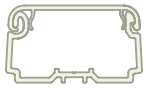
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Cable Fill Capacities for LD Profile Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the cable installation methods, straightness of cables, etc.



LD3	LD5	LD10
.21 in.²	.38 in.²	1.00 in.²



LDPH3	LDPH5	LDPH10
.17 in.²	.33 in.²	89 in.²



LD2P10—Left	LD2P10—Right
.43 in.²	.50 in.²



LDS3	LDS5
.21 in.²	.38 in.²

SPEC = 40% cable fill – The recommended design in cable capacity, leaves room for future moves, adds, and changes.

MAX for Data = 60% cable fill – The maximum cable quantity based on cable interweaving and packing factors.

MAX for Power cable fill – The maximum of electrical cables based on UL temperature rise test.

Raceway Type and Configuration	Fill Area (In.²)	Electrical Cables			Data Grade Cables		Data Grade Cables		Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	23 AWG/UTP		23 AWG/UTP CM		RG6		2 Strand	
		THHN/T90			Category 6 (4-pr.)		Category 6A					
		0.111	0.130	0.164	Dia. = 0.240		Dia. = 0.285		Dia. = 0.275		Dia. = 0.175	
		FILL			FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
		(UL Temp Rise Test)			(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)
LD3	0.21	—	—	—	1	2	1	1	1	2	3	5
LD5	0.38	—	—	—	3	5	2	3	2	3	6	9
LD10	1.00	—	—	—	8	13	6	9	6	10	16	24
LDPH3	0.17	9	7	4	1	2	1	1	1	1	2	4
LDPH5	0.33	14	12	8	2	4	2	3	2	3	5	8
LDPH10	0.89	18	18	16	7	11	5	8	5	8	14	22
LD2P10 – Left channel	0.43	14	11	8	—	—	—	—	—	—	—	—
LD2P10 – Right channel	0.50	—	—	—	4	6	3	4	3	5	8	12

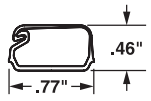
AWG dimensions represent typical outer cable diameter in inches.

Order number of pieces required, in multiples of Standard Package Quantity.

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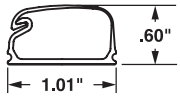
Pan-Way® LD Surface Raceway System

- For routing data and low voltage cabling
- One-piece hinged design allows cables to be laid in
- Factory-applied adhesive backing speeds installation
- FT4 rated
- Terminates using surface mount outlet box solutions or Panduit® Mini-Com® Surface Mount Boxes



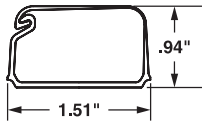
LD3
Internal Area = .21 Sq. In.





LD5
Internal Area = .38 Sq. In.





LD10
Internal Area = 1.00 Sq. In.



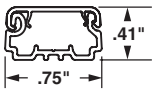
LD3 **LD5** **LD10**

Part Number			Length Ft.
LD3IW6-A	LD5IW6-A	LD10IW6-A	6
LD3IW8-A	LD5IW8-A	LD10IW8-A	8
LD3IW10-A	LD5IW10-A	LD10IW10-A	10

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).
Order number of feet required in multiples of standard length increments.

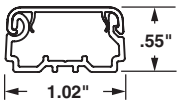
Pan-Way® LDPH Surface Raceway System

- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Two-piece hinged design allows cables to be laid in
- Tamper resistant
- Factory-applied adhesive backing speeds installation
- Terminates using surface mount outlet box solutions or Panduit® Mini-Com® Surface Mount Boxes



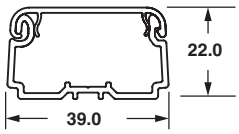
LDPH3
Internal Area = .17 Sq. In.





LDPH5
Internal Area = .33 Sq. In.





LDPH10
Internal Area = .62 Sq. In.



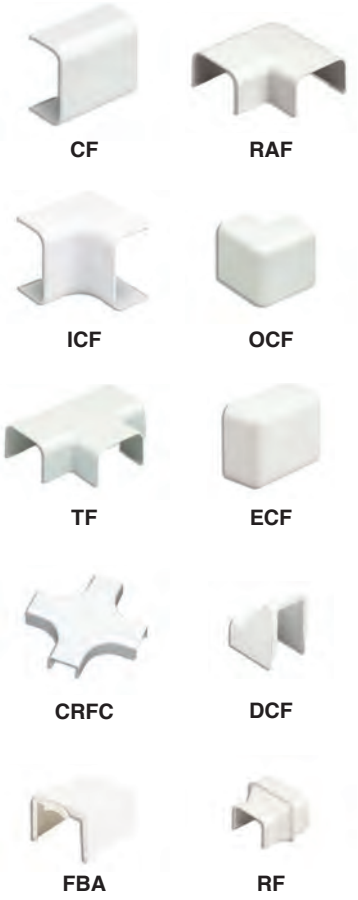
LDPH3 **LDPH5** **LDPH10**

Part Number			Length Ft.
LDPH3IW6-A	LDPH5IW6-A	LDPH10IW6-A	6
LDPH3IW8-A	LDPH5IW8-A	LDPH10IW8-A	8
LDPH3IW10-A	LDPH5IW10-A	LDPH10IW10-A	10

LDPH raceway requires screw mounting for power cabling applications.
Order number of feet required in multiples of standard length increments.
For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Standard Fittings for Low Voltage Applications



LD3	LD5	LD10	
Part Number			Fitting Type
CF3IW-E	CF5IW-E	CF10IW-X	Coupler
RAF3IW-E	RAF5IW-E	RAF10IW-X	Right Angle
ICF3IW-E	ICF5IW-E	ICF10IW-X	Inside Corner
OCF3IW-E	OCF5IW-E	OCF10IW-X	Outside Corner
TF3IW-E	TF5IW-E	TF10IW-X	Tee
ECF3IW-E	ECF5IW-E	ECF10IW-X	End Cap
–	CRFC5IW-X	–	Cross
DCF3IW-X	DCF5IW-X	DCF10IW-X	Drop Ceiling/ Entrance End
FBA3IW-X	FBA5IW-X	FBA10IW-X	Fire Box Adapter

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

Part Number	Reducer Fitting
RF5X3IW-E	From Size LD5 to LD3
RF10X3IW-X	From Size LD10 to LD3
RF10X5IW-X	From Size LD10 to LD3

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

One-Inch Bend Radius Fittings for TIA/EIA Compliance

One-inch bend radius fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling system.



LD3 / LDPH3	LD5 / LDPH5	LD10 / LDPH10	
Part Number			Fitting Type
RAFC3IW-X	RAFC5IW-X	RAFC10IW-X	Right Angle
ICFC3IW-X	ICFC5IW-X	ICFC10IW-X	Inside Corner
OCFX3IW-X	OCFX5IW-X	OCFX10IW-X	Outside Corner (LDPH Only)
TFC3IW-X	TFC5IW-X	TFC10IW-X	Tee
–	CRFC5IW-X	–	Cross

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Power Rated Fittings up to 600 V — LDPH/LDS/LD2P Raceway Only



LDPH3	LDPH5	LDPH10	
Part Number			Fitting Type
CFX3IW-X	CFX5IW-X	CFX10IW-X	Coupler
RAFX3IW-X	RAFX5IW-X	RAFX10IW-X	Right Angle
ICFX3IW-X	ICFX5IW-X	ICFX10IW-X	Inside Corner
OCFC3IW-X	OCFC5IW-X	OCFC10IW-X	Outside Corner
TFX3IW-X	TFX5IW-X	TFX10IW-X	Tee
ECFX3IW-X	ECFX5IW-X	ECFX10IW-X	End Cap
DCEFXIW-X	DCEFXIW-X	DCEFXIW-X	Drop Ceiling/ Entrance End
CEFXIW-X	CEFXIW-X	CEFXIW-X	Conduit/Entrance End
RAEFXIW-X	RAEFXIW-X	RAEFXIW-X	Right Angle/ Entrance End
–	CRFX5IW-X	–	Cross Fitting

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

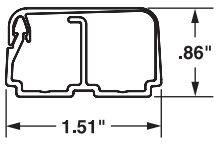
Part Number	Reducer Fitting
RFX53IW-X	From Size LD5 to LD3
RFX103IW-X	From Size LD10 to LD3
RFX105IW-X	From Size LD10 to LD3

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

Pan-Way® Type LD2P10 Multi-Channel Surface Raceway System

- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Routes power and data together
- One-piece hinged design allows cables to be laid in
- Tamper resistant
- Factory-applied adhesive backing speeds installation
- Terminates using JBP1D, JBP2D, JBP2FS or JBP2S surface mount outlet box solutions





Left Internal Area = .43 Sq. In.
Right Internal Area = .50 Sq. In.

Part Number	Raceway Size	Color	Length Ft.	Std. Ctn. Qty.
LD2P10IW8-A	1.52" x.86" (39.0mm x 22.0mm)	Off White	8	160

LD2P raceway requires screw mounting if it is being used for power cabling applications.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Multi-Channel Fittings for LD2P10

Multi-channel fittings for LD2P10 are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high-performance copper and fiber optic cabling systems.


CFX10


RAFX10


ICFX10


OCFX10


TFXD10


ECFX10


EEFX

Part Number	Part Description	Color	Std. Pkg. Qty.
CFX10IW-X	Coupler fitting for use with LD2P10 raceway.	Off White	10
RAFX10IW-X	Right angle fitting for use with LD2P10 raceway.		
ICFX10IW-X	Inside corner fitting for use with LD2P10 raceway.		
OCFX10IW-X	Outside corner fitting for use with LD2P10 raceway.		
TFXD10IW-X	Tee fitting with divided insert to maintain separation of power and data cabling. For use with LD2P10 raceway.		
ECFX10IW-X	End cap fitting for use with LD2P10 raceway.		
EEFXIW	Entrance end fitting for LD2P10 raceway. Breakouts for 1/2" and 3/4" diameter conduit.	Off White	1

Raceway Adapters for LD Raceway

- Fit into universal breakout of DCEFX or RAEFX fittings
- For use with types LD3, LDPH3, LD5 and LDPH5 raceway


CA3
CA5

Part Number	Part Description	Color	Std. Pkg. Qty.
CA3IW-X	Adapter for use with LD3, LDPH3 raceway.	Off White	10
CA5IW-X	Adapter for use with LD5, LDPH5 raceway.		

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Way® T-70 Surface Raceway System

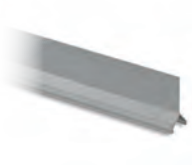
- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Large cable capacity with aesthetically pleasing design
- Tamper resistant
- Compatible with NEMA standard 70mm faceplates or Pan-Way® Classic Series Snap-On Faceplates
- Transitions to Panduit T-45 and LD profile raceway
- Supplied with pre-punched mounting holes



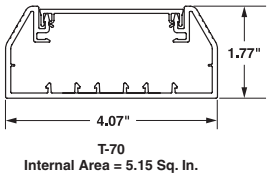
T70B



T70C



T70DW



T-70
Internal Area = 5.15 Sq. In.

Base	Cover	Divider Wall	
Part Number			Length Ft.
T70BIW6	T70CIW6	T70DW6	6
T70BIW8	T70CIW8	T70DW8	8
T70BIW10	T70CIW10	T70DW10	10

For other colors replace IW (Off White) with EI (Electric Ivory).
Twin-70 and TG-70 raceway are available. Refer to www.panduit.com.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Way® T-70 Raceway Fittings

T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high-performance copper and fiber optic cabling systems.


T70CC


T70BC

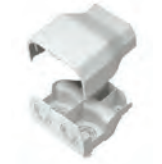

T70RA


T70IC


T70OC


T70T


T70EC


T70EE


T70TR
T70TRC


T70BF


T70WC


T70WC2


T70BFI


T70TD


T70TRI

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T70CCIW-X	T-70 cover coupler fitting: Joins cover sections of T-70, Twin-70, and TG-70 raceway cover together.	Off White	10	100
T70BCIW-X	Base coupler fitting. Used to join sections of T-70 raceway base together.		10	10
T70RAIW	Right angle fitting. Used to join sections of T-70 raceway at right angles.		1	10
T70ICIW	Inside corner fitting. Used to join sections of T-70 raceway at inside corners.			
T70OCIW	Outside corner fitting. Used to join sections of T-70 raceway at outside corners.			
T70TIW	Tee fitting. Used to join sections of T-70 raceway at tee intersections.			
T70ECIW	End cap fitting. Used to terminate or allow entry to T-70 raceway with conduit breakouts of 1/2".			
T70EEIW	Entrance end fitting. Conduit breakouts of 1/2", 3/4", 1" and 1 1/4" which allows entry from ceiling or wall.			
T70TRIW	Transition fitting. Used to transition to any LD profile or T-45 raceway while maintaining channel separation. Fitting includes bend radius insert.			
T70TRCIW	Transition fitting cover. Used to transition to any LD profile or T-45 raceway.			
T70BFIW	Backfeed fitting. Allows cable entry through the back of the T-70 raceway.			
T70WCIW	Workstation Outlet Center™ Offset Box for screw-on faceplates. Two-piece box and bracket accept any NEMA standard screw-on faceplate.			
T70WC2IW	Workstation Outlet Center™ Offset Box for Pan-Way® Snap-On Faceplates. Two-piece box and bracket accept any standard electrical outlet. Accepts any Pan-Way® Snap-On Electrical/ Communication Faceplates.			
T70BFI	Backfeed fitting insert. Bend radius insert to be used with T70BFIW.	Gray	1	10
T70TD	T-70 tee fitting divider. Separates power and data within tee fitting. Replaces T70TDB, T70TDC, and T70TDT.			
T70TRI	Divided insert for T-70 to LD2P10. Maintains channel separation within T70TRIW fitting.			

‡For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).
Twin-70 and TG-70 raceway are available. Refer to www.panduit.com.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Way® T-70 Raceway Accessories

T-70 raceway accessories consist of device mounting brackets, snap-on device brackets, hanging boxes and three-sided hanging boxes used to mount NEMA standard single gang electrical outlets and/or communication devices.


T70DB-X


T70SDB-X


T70HB-X


T70HB3-X


T70HB3GFCI-X


T70WR-X


T70S-X

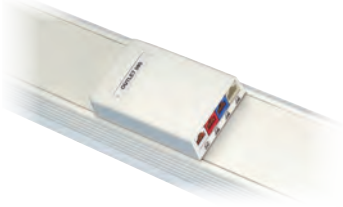

T70FSB

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
T70DB-X	Device mounting bracket. Used to mount NEMA standard single gang electrical outlets and communication devices with either screw-on or snap-on single gang faceplates. Can be used with T-70, Twin-70, and TG-70 raceway.	Gray	10	—
T70SDB-X	Standard faceplate bracket. Used to mount NEMA standard 70mm single gang screw-on faceplates. Can be used with T-70, Twin-70, TG-70 raceway and Pan-Pole™ Communication Pole.			
T70HB-X	Hanging box. Used to mount NEMA standard single gang electrical outlets and devices with either screw-on or snap-on single gang faceplates when there are communications cables in the raceway. For use in T-70 and Twin-70 raceway only.			
T70HB3-X	T70 HB3 3-sided hanging box. Used to mount NEMA standard single gang electrical outlets and devices with either screw-on or snap-on single gang faceplates when there are communications cables in the raceway. Box is low profile for increased channel capacity and does not require breakout removal. For use with T-70 and Twin-70 raceway only.			
T70HB3GFCI-X	T70 GFCI 3-sided hanging box. Accepts single gang U.S. GFCI (ground fault circuit interrupter) standard electrical devices. Provides increased internal area for connections and excess wire.			
T70WR-X	Wire retainer. Holds wires in place during installation.	Gray	10	100
T70S-X	Spacer plate. Used to mount the CBX4 surface mount box onto the T70DB-X or T70HB-X/ T70HB3-X.	—	10	—
T70FSB	Fiber spool bracket. Each piece consists of two halves that snap into base of T-70 or Twin-70 raceway. Provides method to contain one meter or more of fiber slack and acts as a strain relief while maintaining a minimum 30mm bend radius. Bracket separation can be adjusted to fit the length of slack required.	Gray	1	10

Twin-70 and TG-70 raceway available. Refer to www.panduit.com.



Use the T70FSB with T-70 or Twin-70 raceway to contain 1m or more of fiber slack while maintaining a 30mm cable bend radius. Brackets are adjustable for slack length.



Use T70S-X spacer plate for mounting the CBX4 surface mount box on T-70 or T702.

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Notes

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Abrasion Protection

Panduit® abrasion protection products provide an economical and easy way to insulate, protect, bundle and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications. To help assure optimum quality, Panduit abrasion protection products are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO, and Aerospace.

- **Pan-Wrap™ Split Harness Wrap features a patented slot pattern to improve flexibility and abrasion protection**
- **Spiral wrap bundles and protects wire and cable while providing the largest variety of colors, materials, and sizes to meet a variety of needs**
- **Grommet edging protects wire and cable from damage caused by sharp panel edges**
- **Heat shrink is available in many different materials and sizes to meet a variety of needs**
- **Corrugated loom tubing is crush, impact, and abrasion resistant to reduce the risk of damage to wire and cable**
- **Braided expandable sleeving provides continuous abrasion resistance and lightweight durable protection, with a flexible open weave that will not trap heat or humidity**

Panduit abrasion protection products provide quality at the lowest installed cost. With a continued focus on new product development, Panduit continues to meet customer needs.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number System for Pan-Wrap™

PW	50	F	—	C	20
Type	**Outside Diameter**	**Material**		**Package Size**	**Color Suffix**
PW = Pan-Wrap™	50 = 1/2" 75 = 3/4" 100 = 1" 150 = 1 1/2"	F = Polyethylene FR = Flame Retardant Polyethylene		L = 50' (15.2m) C = 100' (30.5m) T = 200' (61.0m)	Leave Blank = Natural 20 = Black 3 = Orange 4 = Yellow

Pan-Wrap™ Split Harness Wrap



- Patented slot pattern provides improved flexibility and abrasion protection in any application
- Unique wall design provides for easy cable breakouts
- Innovative design maintains uniform bundle protection in dynamic applications
- Considerably reduces installation time
- Large overlap accommodates a wide range of bundle diameters
- Packaged on a reel for easy handling and dispensing of product
- UL File: E141152
- Voltage rating: 600 V

Part Number	Material	Color	Length Per Reel		Max. Bundle Diameter		Min. Bundle Diameter‡		Temperature Range	Nominal I.D.		Std. Pkg. Qty.*
			Ft.	m	In.	mm	In.	mm		In.	mm	
PW50F-T	Polyethylene	Natural	200	61.0	0.55	14.0	0.43	10.9	-40°F – 122°F (-40°C – 50°C)	0.50	12.7	1
PW50F-T20		Black	200	61.0	0.55	14.0	0.43	10.9				
PW50F-T3		Orange	200	61.0	0.55	14.0	0.43	10.9				
PW50F-T4		Yellow	200	61.0	0.55	14.0	0.43	10.9				
PW50FR-TY	Flame Retardant Polyethylene	Natural	200	61.0	0.55	14.0	0.43	10.9	-4°F – 122°F (-20°C – 50°C)	0.50	12.7	
PW50FR-T20Y		Black	200	61.0	0.55	14.0	0.43	10.9				
PW75F-C	Polyethylene	Natural	100	30.5	0.81	20.6	0.55	14.0	-40°F – 122°F (-40°C – 50°C)	0.75	19.1	
PW75F-C20		Black	100	30.5	0.81	20.6	0.55	14.0				
PW75F-C3		Orange	100	30.5	0.81	20.6	0.55	14.0				
PW75F-C4		Yellow	100	30.5	0.81	20.6	0.55	14.0				
PW75FR-CY	Flame Retardant Polyethylene	Natural	100	30.5	0.81	20.6	0.55	14.0	-4°F – 122°F (-20°C – 50°C)			
PW75FR-C20Y		Black	100	30.5	0.81	20.6	0.55	14.0				
PW100F-C	Polyethylene	Natural	100	30.5	1.13	28.6	0.81	20.6	-40°F – 122°F (-40°C – 50°C)	1.00	25.4	
PW100F-C20		Black	100	30.5	1.13	28.6	0.81	20.6				
PW100F-C3		Orange	100	30.5	1.13	28.6	0.81	20.6				
PW100F-C4		Yellow	100	30.5	1.13	28.6	0.81	20.6				
PW100FR-CY	Flame Retardant Polyethylene	Natural	100	30.5	1.13	28.6	0.81	20.6	-4°F – 122°F (-20°C – 50°C)			
PW100FR-C20Y		Black	100	30.5	1.13	28.6	0.81	20.6				
PW150F-L	Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	-40°F – 122°F (-40°C – 50°C)	1.50	38.1	
PW150F-L20		Black	50	15.2	1.63	41.3	1.13	28.6				
PW150F-L3		Orange	50	15.2	1.63	41.3	1.13	28.6				
PW150F-L4		Yellow	50	15.2	1.63	41.3	1.13	28.6				
PW150FR-LY	Flame Retardant Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	-4°F – 122°F (-20°C – 50°C)			
PW150FR-L20Y		Black	50	15.2	1.63	41.3	1.13	28.6				

‡Diameter can be further reduced with the use of Panduit cable ties.
*Order number of reels required.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Pan-Wrap™ Installation Tools

- Patented installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
- The Pan-Wrap installation tool is designed for use with our Pan-Wrap Split Harness Wrap, Pan-Wrap Braided Sleeving and Corrugated Loom Tubing Products



Part Number	Color	For Use With	Std. Pkg. Qty.**
PWT38	White	Pan-Wrap Braided Sleeving – Size: 1/4" Slit Wall Corrugated Loom Tubing – Size: 3/8"	1
PWT50		Pan-Wrap Split Harness Wrap – Size: 1/2" Pan-Wrap Braided Sleeving – Size: 1/2" Slit Wall Corrugated Loom Tubing – Size: 1/2"	
PWT75		Pan-Wrap Split Harness Wrap – Size: 3/4" Pan-Wrap Braided Sleeving – Size: 3/4" Slit Wall Corrugated Loom Tubing – Size: 3/4"	
PWT100		Pan-Wrap Split Harness Wrap – Size: 1" Pan-Wrap Braided Sleeving – Size: 1" Slit Wall Corrugated Loom Tubing – Size: 1"	
PWT150		Pan-Wrap Split Harness Wrap – Size: 1 1/2" Pan-Wrap Braided Sleeving – Size: 1 1/2" Slit Wall Corrugated Loom Tubing – Size: 1 1/2"	

**Order number of tools required.

Part Number System for Spiral Wrap

T – 25 – F – C – 16

Type

T = Spiral Wrap

Outside Diameter

12 = 1/8"
19 = 3/16"
25 = 1/4"
38 = 3/8"
50 = 1/2"
62 = 5/8"
75 = 3/4"
100 = 1"

Material

F = Polyethylene
R = Fire Resistant Polyethylene
FR = Flame Retardant Polyethylene
N = Nylon
NZFR = Halogen-Free, Low Smoke, Flame Retardant Nylon
T = TFE^
P = Weather Resistant Polypropylene

Package Size

X = 10'
Q = 25'
L = 50'
C = 100'
T = 200'
TL = 250'
D = 500'
M = 1,000'

Color Suffix

See Table Below

Color	Color Suffix	Material Availability						
		Polyethylene	Fire Resistant Polyethylene	Flame Retardant Polyethylene	Nylon 6.6	Halogen-Free Low Smoke Flame Retardant Nylon 6	Weather Resistant Polypropylene	TFE^
Natural*	No Suffix Will be Listed	✓	✓	✓	✓			✓
Weather Resistant Black	0	✓			✓		✓	
Brown	1	✓						
Red	2	✓						
Orange	3	✓						
Yellow	4	✓						
Green	5	✓						
Blue	6	✓						
Purple	7	✓						
Gray	8	✓						
White	10	✓						
Pink	16	✓						
Black	20	✓	✓	✓	✓	✓		

^TFE is Polytetrafluorethylene material.
*Natural can range from transparent, opaque, to white.

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Spiral Wrap



- Harness multiple cables into a single manageable bundle
- Allows breakouts of single/multiple cables
- Provides abrasion protection for wire, cables, hoses, and tubing
- Reverse cut
- Multiple colors allow easy identification of cable bundles
- Installation tool supplied in each package
- Available in multiple materials
- Reusable
- UL File: E141152
- Voltage Rating: 600 V

Part Number	Material*	Color	Length Per Reel‡		Bundle Diameter Range		Outside Diameter		Temperature Range	Wall Thickness		Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		In.	mm	
T12F-C	Polyethylene	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 122°F (-40°C – 50°C)	0.030	0.76	1
T12F-D			500	152.4	1/16 – 1/2	1.6 – 12.7	0.12	3.2		0.030	0.76	
T19F-C			100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8		0.035	0.89	
T19F-M			1,000	304.8	1/8 – 1	3.2 – 25.4	0.19	4.8		0.035	0.89	
T25F-C	Polyethylene	Natural	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	
T25F-C1	Polyethylene	Brown	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	
T25F-C2		Red	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C3Y		Orange	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C4Y		Yellow	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C5		Green	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C6		Blue	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C7		Purple	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C8		Gray	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C10		White	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C16		Pink	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-M	Polyethylene	Natural	1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	
T38F-C			100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T38F-TL			250	76.2	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T50F-X			10	3.1	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C1	Polyethylene	Brown	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	
T50F-C2		Red	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C3Y		Orange	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C4Y		Yellow	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C5		Green	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C6	Polyethylene	Blue	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	
T50F-C7		Purple	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C8		Gray	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C10		White	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C16		Pink	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-TL		Natural	250	76.2	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-TL4Y		Yellow	250	76.2	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T62F-C	Polyethylene	Natural	100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9	-40°F – 122°F (-40°C – 50°C)	0.062	1.57	
T62F-TL			250	76.2	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.062	1.57	
T75F-C			100	30.5	5/8 – 5	15.9 – 127.0	0.75	19.1		0.065	1.65	
T75F-T			200	61.0	5/8 – 5	15.9 – 127.0	0.75	19.1		0.065	1.65	
T100F-C			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.070	1.78	

*Flame retardant products are manufactured from a material that is rated UL 94V-0.
‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Spiral Wrap (continued)

Part Number	Material*	Color	Length Per Reel‡		Bundle Diameter Range		Outside Diameter		Temperature Range	Wall Thickness		Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		In.	mm	
T12F-C0	Weather Resistant Polyethylene	Black	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 122°F (-40°C – 50°C)	0.030	0.76	1
T12F-D0			500	152.4	1/16 – 1/2	1.6 – 12.7	0.12	3.2		0.030	0.76	
T19F-C0			100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8		0.035	0.89	
T25F-X0			10	3.1	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-C0			100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25F-M0			1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T38F-C0			100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T38F-TL0			250	76.2	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T50F-X0			10	3.1	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-C0			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50F-TL0			250	76.2	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T62F-C0	Weather Resistant Polyethylene	Black	100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9	-40°F – 122°F (-40°C – 50°C)	0.062	1.57	1
T62F-TL0			250	76.2								
T75F-C0			100	30.5	5/8 – 5	15.9 – 127.0	0.75	19.1		0.065	1.65	
T75F-T0			200	61.0								
T100F-C0			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.070	1.78	
T12R-CY	Fire Resistant Polyethylene	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 122°F (-40°C – 50°C)	0.030	0.76	1
T19R-CY					1/8 – 1	3.2 – 25.4	0.19	4.8		0.035	0.89	
T25R-CY					3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25R-C20Y		Black										
T25R-MY		Natural	1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4				
T25R-M20Y		Black										
T38R-CY		Natural	100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T38R-TLY			250	76.2								
T50R-CY			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50R-TLY			250	76.2								
T62R-CY			100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.062	1.57	
T75R-CY					5/8 – 5	15.9 – 127.0	0.75	19.1		0.065	1.65	
T100R-CY					7/8 – 6	22.2 – 152.4	1.00	25.4		0.070	1.78	
T12FR-CY	Flame Retardant Polyethylene	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-4°F – 122°F (-20°C – 50°C)	0.030	0.76	1
T12FR-C20Y		Black										
T19FR-CY		Natural			1/8 – 1	3.2 – 25.4	0.19	4.8		0.032	0.80	
T19FR-C20Y		Black										
T25FR-CY		Natural			3/16 – 2	4.8 – 50.8	0.25	6.4		0.040	1.02	
T25FR-C20Y		Black										
T25FR-MY	Flame Retardant Polyethylene	Natural	1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4	-4°F – 122°F (-20°C – 50°C)	0.040	1.02	1
T25FR-M20Y		Black										
T38FR-CY		Natural	100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.055	1.40	
T38FR-C20Y		Black										
T38FR-TLY		Natural	250	76.2								
T50FR-CY			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.060	1.52	
T50FR-C20Y		Black										
T50FR-TLY		Natural	250	76.2								
T62FR-CY			100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.062	1.57	
T62FR-C20Y		Black										
T75FR-CY		Natural			5/8 – 5	15.9 – 127.0	0.75	19.1		0.065	1.65	
T75FR-C20Y		Black										
T75FR-TY		Natural	200	61.0								
T100FR-CY			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.070	1.78	
T100FR-C20Y		Black										

*Flame retardant products are manufactured from a material that is rated UL 94V-0.
‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

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Spiral Wrap (continued)

Part Number	Material*	Color	Length Per Reel‡		Bundle Diameter Range		Outside Diameter		Temperature Range	Wall Thickness		Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		In.	mm	
T12N-C	Nylon 6.6	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 149°F (-40°C – 65°C)	0.015	0.38	1
T12N-D			500	152.4								
T19N-C			100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8		0.020	0.51	
T19N-M			1,000	304.8								
T25N-C			100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.023	0.58	
T25N-M			1,000	304.8								
T38N-C			100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.030	0.76	
T38N-TL			250	76.2		5/16 – 3						
T50N-C	Nylon 6.6	Natural	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 149°F (-40°C – 65°C)	0.032	0.81	1
T50N-TL			250	76.2	3/8 – 4	9.5 – 101.6	0.50	12.7		0.032	0.81	
T62N-C			100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.035	0.89	
T75N-C			100	30.5	5/8 – 5	15.9 – 127.0	0.75	19.1		0.040	1.02	
T75N-T			200	61	5/8 – 5	15.9 – 127.0	0.75	19.1		0.040	1.02	
T100N-C			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.045	1.14	
T12N-C0	Weather Resistant Nylon 6.6	Black	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 149°F (-40°C – 65°C)	0.015	0.38	1
T19N-C0			100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8		0.020	0.51	
T19N-M0			1,000	304.8	1/8 – 1	3.2 – 25.4	0.19	4.8		0.020	0.51	
T25N-M0			1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4		0.023	0.58	
T25N-C0			100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4		0.023	0.58	
T38N-C0			100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.030	0.76	
T50N-C0			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.032	0.81	
T50N-TL0			250	76.2	3/8 – 4	9.5 – 101.6	0.50	12.7		0.032	0.81	
T62N-C0			100	30.5	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.035	0.89	
T75N-C0			100	30.5	5/8 – 5	15.9 – 127.0	0.75	19.1		0.040	1.02	
T100N-C0			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.045	1.14	
T25NZFR-C20	Low Smoke Halogen-Free Flame Retardant Nylon 6	Black	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 149°F (-40°C – 65°C)	0.023	0.58	
T38NZFR-C20			100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5		0.030	0.76	
T50NZFR-C20			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.032	0.81	
T75NZFR-C20	Low Smoke Halogen-Free Flame Retardant Nylon 6	Black	100	30.5	5/8 – 5	15.9 – 127.0	0.75	19.1	-40°F – 149°F (-40°C – 65°C)	0.040	1.02	1
T100NZFR-C20			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4	-40°F – 239°F (-40°C – 115°C)	0.030	0.76	
T38P-C0	Weather Resistant Polypropylene	Black	100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5	-40°F – 239°F (-40°C – 115°C)	0.030	0.76	
T50P-C0			100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7		0.030	0.76	
T100P-C0			100	30.5	7/8 – 6	22.2 – 152.4	1.00	25.4		0.030	0.76	
T12T-C	TFE^	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-454°F – 356°F (-270°C – 180°C)	0.020	0.51	
T19T-C			100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8		0.030	0.76	
T25T-L			50	15.2	3/16 – 2	4.8 – 50.8	0.25	6.4		0.030	0.76	
T25T-L0	TFE^	Black	50	15.2	3/16 – 2	4.8 – 50.8	0.25	6.4		0.030	0.76	
T38T-L	TFE^	Natural	50	15.2	5/16 – 3	7.9 – 76.2	0.38	9.5		0.030	0.76	
T50T-Q			25	7.6	3/8 – 4	9.5 – 101.6	0.50	12.7		0.030	0.76	
T62T-Q			25	7.6	1/2 – 4 1/2	12.7 – 114.3	0.62	15.9		0.030	0.76	
T75T-X			10	3.1	5/8 – 5	15.9 – 127.0	0.75	19.1		0.030	0.76	
T100T-X			10	3.1	7/8 – 6	22.2 – 152.4	1.00	25.4		0.040	1.02	

*Flame retardant products are manufactured from a material that is rated UL 94V-0.
‡Reel packaging may contain splices. Contact Panduit Customer Service for further information
^TFE is Polytetrafluorethylene material.

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Grommet Edging

GEE — **36** — **F** — **A** — **C** — **0**

Type

GE = Grommet Edging Strips
GEE = Slotted Grommet Edging
GES = Solid Grommet Edging

Max. Panel Thickness

36 = 0.036" thickness
62 = 0.062" thickness
99 = 0.099" thickness
144 = 0.144" thickness
189 = 0.189" thickness

Material

F = Polyethylene
N = Nylon 6.6
FR = Flame Retardant Polyethylene

Adhesive

A = Adhesive Lined
Leave Blank = Non-Adhesive

Package Size

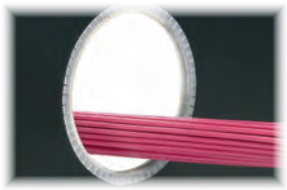
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L = 50'
C = 100'

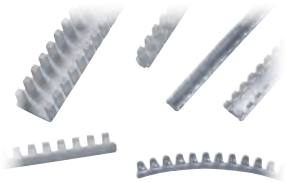
Color Suffix

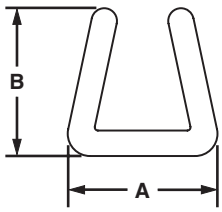
0 = Weather Resistant Black
Leave Blank = Natural

Grommet Edging

- Use slotted product on irregularly shaped and round panel holes
- Solid product is used only on straight edges
- Provided in 0.030" (0.8mm) thick material making it highly flexible
- UL File: E351393 (Adhesive Lined and Nylon materials are not UL Recognized)
- Adhesive Lined Grommet Edging: 3 year shelf life







Part Number	Width A		Height B		Panel Thickness Range		Material	Color	Temperature Range	Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm				
Slotted										
GEE36F-C	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Polyethylene	Natural*	-40°F – 122°F (-40°C – 50°C)	1
GEE36F-C0	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Weather Resistant Polyethylene	Black		
GEE62F-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural*		
GEE62F-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		
GEE99F-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural*		
GEE99F-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		
GEE144F-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural*		
GEE144F-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		

*Natural color can range from opaque to clear.

Continued on next page

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Grommet Edging (continued)

Part Number	Width A In.	Width A mm	Height B In.	Height B mm	Panel Thickness Range In.	Panel Thickness Range mm	Material	Color	Temperature Range	Std. Pkg. Qty.
Solid – Use on straight edges only										
GES36F-C	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Polyethylene	Natural*	-40°F – 122°F (-40°C – 50°C)	1
GES36F-C0	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Weather Resistant Polyethylene	Black		
GES62F-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural*		
GES62F-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		
GES99F-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural*		
GES99F-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		
GES144F-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural*		
GES144F-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		
GES189F-C	0.30	7.6	0.30	7.6	0.144 – 0.189	3.7 – 4.8	Polyethylene	Natural*		
GES189F-C0	0.30	7.6	0.30	7.6	0.144 – 0.189	3.7 – 4.8	Weather Resistant Polyethylene	Black		
Slotted Adhesive Lined										
GEE62F-A-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural*	-40°F – 122°F (-40°C – 50°C)	1
GEE62F-A-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		
GEE99F-A-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural*		
GEE99F-A-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		
GEE144F-A-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural*		
GEE144F-A-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		
Solid Adhesive Lined – Use on straight edges only										
GES62F-A-C	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Polyethylene	Natural*	-40°F – 122°F (-40°C – 50°C)	1
GES62F-A-C0	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6	Weather Resistant Polyethylene	Black		
GES99F-A-C	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Polyethylene	Natural*		
GES99F-A-C0	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5	Weather Resistant Polyethylene	Black		
GES144F-A-C	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Polyethylene	Natural*		
GES144F-A-C0	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7	Weather Resistant Polyethylene	Black		
Slotted Flame Retardant										
GEE36FR-CY	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Flame Retardant Polyethylene	Natural*	-4°F – 122°F (-20°C – 50°C)	1
GEE62FR-CY	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6				
GEE99FR-CY	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5				
GEE144FR-CY	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7				

*Natural color can range from opaque to clear.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Grommet Edging (continued)

Part Number	Width A		Height B		Panel Thickness Range		Material	Color	Temperature Range	Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm				
Solid Flame Retardant – Used on straight edges only										
GES36FR-CY	0.11	2.7	0.12	3.0	0.026 – 0.036	0.7 – 0.9	Flame Retardant Polyethylene	Natural*	-4°F – 122°F (-20°C – 50°C)	1
GES62FR-CY	0.13	3.3	0.16	4.1	0.036 – 0.062	0.9 – 1.6				
GES99FR-CY	0.17	4.3	0.19	4.7	0.062 – 0.099	1.6 – 2.5				
GES144FR-CY	0.21	5.4	0.22	5.6	0.099 – 0.144	2.5 – 3.7				
Slotted Nylon										
GEE47N-C	0.13	3.2	0.14	3.6	0.039 – 0.055	1.0 – 1.4	Nylon 6	Natural*	-40°F – 149°F (-40°C – 65°C)	1
GEE55N-C	0.13	3.4	0.14	3.6	0.047 – 0.063	1.2 – 1.6				
GEE71N-C	0.15	3.8	0.14	3.6	0.063 – 0.079	1.6 – 2.0				
GEE98N-C	0.18	4.6	0.14	3.6	0.091 – 0.106	2.3 – 2.7				
GEE134N-C	0.21	5.3	0.14	3.6	0.126 – 0.142	3.2 – 3.6				
National Aerospace Standard NAMS21266 in 12.75" Lengths**										
GE52-C	0.15	3.8	0.16	3.9	0.015 – 0.052	0.4 – 1.3	Nylon 6.6	Natural*	-40°F – 149°F (-40°C – 65°C)	100
GE52-C69***	0.15	3.8	0.16	3.9	0.015 – 0.052	0.4 – 1.3	Flame Retardant Nylon 6.6		-40°F – 212°F (-40°C – 100°C)	
GE85-C	0.18	4.5	0.16	3.9	0.052 – 0.085	1.3 – 2.2	Nylon 6.6		-40°F – 149°F (-40°C – 65°C)	
GE85-C69***	0.18	4.5	0.16	3.9	0.052 – 0.085	1.3 – 2.2	Flame Retardant Nylon 6.6		-40°F – 212°F (-40°C – 100°C)	
GE128-C	0.22	5.6	0.16	3.9	0.085 – 0.128	2.2 – 3.3	Nylon 6.6		-40°F – 149°F (-40°C – 65°C)	
GE128-C69***	0.22	5.6	0.16	3.9	0.085 – 0.128	2.2 – 3.3	Flame Retardant Nylon 6.6		-40°F – 212°F (-40°C – 100°C)	
GE192-L	0.33	8.3	0.23	5.8	0.128 – 0.192	3.3 – 4.9	Nylon 6.6	Natural*	-40°F – 149°F (-40°C – 65°C)	50
GE192-L69***	0.33	8.3	0.23	5.8	0.128 – 0.192	3.3 – 4.9	Flame Retardant Nylon 6.6		-40°F – 212°F (-40°C – 100°C)	
GE255-L	0.39	9.8	0.24	6.1	0.192 – 0.255	4.9 – 6.5	Nylon 6.6	Natural*	-40°F – 149°F (-40°C – 65°C)	50
GE318-L	0.46	11.3	0.26	6.5	0.255 – 0.318	6.5 – 8.1				
GE380-Q	0.52	13.1	0.26	6.5	0.318 – 0.380	8.1 – 9.7	Nylon 6.6	Natural*	-40°F – 149°F (-40°C – 65°C)	25
GE510-Q	0.64	16.3	0.26	6.5	0.380 – 0.510	9.7 – 13.0				

*Natural color can range from opaque to clear.
**Formerly Military Standard MS21266
***This material is not specified under NASM21266

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Part Number System for Corrugated Loom Tubing

CLT — **100** **N** — **C** **630**

Type
CLT = Slit Wall
CLTS = Solid Wall

Bundle Diameter
25 = 1/4"
35 = 5/16"
38 = 3/8"
50 = 1/2"
62 = 5/8"
75 = 3/4"
100 = 1"
125 = 1 1/4"
150 = 1 1/2"
188 = 1 7/8"

Material
N = Heat Stabilized Nylon
F = Polyethylene

Package Size
X = 10'
L = 50'
C = 100'
T = 200'
3C = 300'
D = 500'
.75M = 750'
125M = 1,250'
2M = 2,000'
2.5M = 2,500'
4M = 4,000'
5M = 5,000'
7M = 7,000'
10M = 10,000'

Color Suffix
630 = Heat Stabilized Black Nylon 6
20 = Black Polyethylene
3 = Orange Polyethylene
4 = Yellow Polyethylene

Corrugated Loom Tubing



- Provides protection for cables
- For use in enclosures or indoors only
- Available in Nylon or Polyethylene, this product features a lengthwise slit which makes it easy to install onto a bundle of wires or a pre-assembled harness assembly
- Abrasion resistant and provides light crush and impact resistance

Part Number	Material	Color	Length Per Reel*		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		
Slit Wall										
CLT25F-C3	Polyethylene	Orange	100	30.5	0.28	7.2	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLT25F-C4		Yellow	100	30.5	0.28	7.2	0.40	10.1		
CLT25F-C20	Polyethylene	Black	100	30.5	0.28	7.2	0.40	10.1		
CLT25F-10M20			10,000	3048.0	0.28	7.2	0.40	10.1		
CLT35F-C3	Polyethylene	Orange	100	30.5	0.35	8.9	0.50	12.8		
CLT35F-C4		Yellow	100	30.5	0.35	8.9	0.50	12.8		
CLT35F-C20	Polyethylene	Black	100	30.5	0.35	8.9	0.50	12.8		
CLT35F-7M20			7,000	2133.6	0.35	8.9	0.50	12.8		
CLT38F-C3	Polyethylene	Orange	100	30.5	0.39	10.0	0.52	13.3		
CLT38F-C4		Yellow	100	30.5	0.39	10.0	0.52	13.3		
CLT38F-C20	Polyethylene	Black	100	30.5	0.39	10.0	0.52	13.3		
CLT38F-5M20			5,000	1524.0	0.39	10.0	0.52	13.3		
CLT50F-C3	Polyethylene	Orange	100	30.5	0.51	13.0	0.65	16.6		
CLT50F-C4		Yellow	100	30.5	0.51	13.0	0.65	16.6		
CLT50F-C20	Polyethylene	Black	100	30.5	0.51	13.0	0.65	16.6		
CLT50F-4M20			4,000	1219.2	0.51	13.0	0.65	16.6		
CLT62F-C3	Polyethylene	Orange	100	30.5	0.66	16.9	0.85	21.1		
CLT62F-C4		Yellow	100	30.5	0.66	16.9	0.85	21.1		
CLT62F-C20	Polyethylene	Black	100	30.5	0.66	16.9	0.85	21.1		
CLT62F-2.5M20			2,500	762.0	0.66	16.9	0.85	21.1		
CLT75F-C3	Polyethylene	Orange	100	30.5	0.77	19.5	0.94	23.9		
CLT75F-C4		Yellow	100	30.5	0.77	19.5	0.94	23.9		
CLT75F-C20	Polyethylene	Black	100	30.5	0.77	19.5	0.94	23.9		
CLT75F-2M20			2,000	609.6	0.77	19.5	0.94	23.9		

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Corrugated Loom Tubing (continued)

Part Number	Material	Color	Length Per Reel*		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		
CLT100F-X4	Polyethylene	Yellow	10	3.1	0.91	23.2	1.10	28.0	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-C3		Orange	100	30.5	0.91	23.2	1.10	28.0		
CLT100F-C4		Yellow	100	30.5	0.91	23.2	1.10	28.0		
CLT100F-C20	Polyethylene	Black	100	30.5	0.91	23.2	1.10	28.0		
CLT100F-125M20			1,250	381.0	0.91	23.2	1.10	28.0		
CLT125F-L3	Polyethylene	Orange	50	15.2	1.28	32.5	1.54	39.0		
CLT125F-L4		Yellow	50	15.2	1.28	32.5	1.54	39.0		
CLT125F-L20	Polyethylene	Black	50	15.2	1.28	32.5	1.54	39.0		
CLT125F-.75M20			750	228.6	1.28	32.5	1.54	39.0		
CLT150F-X3	Polyethylene	Orange	10	3.1	1.58	40.0	1.85	47.0		
CLT150F-X4		Yellow	10	3.1	1.58	40.0	1.85	47.0		
CLT150F-X20	Polyethylene	Black	10	3.1	1.58	40.0	1.85	47.0		
CLT150F-T20			200	61.0	1.58	40.0	1.85	47.0		
CLT150F-D3	Polyethylene	Orange	500	152.4	1.58	40.0	1.85	47.0		
CLT150F-D4		Yellow	500	152.4	1.58	40.0	1.85	47.0		
CLT150F-D20		Black	500	152.4	1.58	40.0	1.85	47.0		
CLT188F-X3		Orange	10	3.1	1.85	47.0	2.19	55.7		
CLT188F-X4		Yellow	10	3.1	1.85	47.0	2.19	55.7		
CLT188F-X20	Polyethylene	Black	10	3.1	1.85	47.0	2.19	55.7		
CLT188F-C20			100	30.5	1.85	47.0	2.19	55.7		
CLT188F-C3	Polyethylene	Orange	100	30.5	1.85	47.0	2.19	55.7		
CLT188F-C4		Yellow	100	30.5	1.85	47.0	2.19	55.7		
CLT188F-3C20		Black	300	91.4	1.85	47.0	2.19	55.7		
Solid Wall										
CLTS25F-C	Polyethylene	Black	100	30.5	0.28	7.2	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS25F-C3		Orange	100	30.5	0.28	7.2	0.40	10.1		
CLTS25F-10M	Polyethylene	Black	10,000	3048.0	0.28	7.2	0.40	10.1		
CLTS35F-C			100	30.5	0.35	8.9	0.50	12.8		
CLTS35F-C3	Polyethylene	Orange	100	30.5	0.35	8.9	0.50	12.8		
CLTS38F-C		Black	100	30.5	0.39	10.0	0.52	13.3		
CLTS38F-C3		Orange	100	30.5	0.39	10.0	0.52	13.3		
CLTS50F-C		Black	100	30.5	0.51	13.0	0.65	16.6		
CLTS50F-C3		Orange	100	30.5	0.51	13.0	0.65	16.6		
CLTS62F-C		Black	100	30.5	0.66	16.9	0.85	21.1		
CLTS62F-C3		Orange	100	30.5	0.66	16.9	0.85	21.1		
CLTS75F-C		Black	100	30.5	0.77	19.5	0.94	23.9		
CLTS75F-C3		Orange	100	30.5	0.77	19.5	0.94	23.9		
CLTS75F-2M	Polyethylene	Black	2,000	609.6	0.77	19.5	0.94	23.9		
CLTS100F-C			100	30.5	0.91	23.2	1.10	28.0		
CLTS100F-C3	Polyethylene	Orange	100	30.5	0.91	23.2	1.10	28.0		
CLTS100F-1.25M	Polyethylene	Black	1,250	381.0	0.91	23.2	1.10	28.0		
CLTS125F-L			50	15.2	1.28	32.5	1.54	39.0		
CLTS125F-L3	Polyethylene	Orange	50	15.2	1.28	32.5	1.54	39.0		
CLTS150F-D		Black	500	152.4	1.58	40.0	1.85	47.0		
CLTS150F-D3		Orange	500	152.4	1.58	40.0	1.85	47.0		

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

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Corrugated Loom Tubing (continued)

Part Number	Material	Color	Length Per Reel*		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.
			Ft.	m	In.	mm	In.	mm		
Nylon Slit										
CLT25N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.28	7.2	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLT25N-10M630			10,000	3048.0	0.28	7.2	0.40	10.1		
CLT35N-C630			100	30.5	0.35	8.9	0.50	12.8		
CLT38N-C630			100	30.5	0.39	10.0	0.52	13.3		
CLT38N-5M630			5,000	1524.0	0.39	10.0	0.52	13.3		
CLT50N-C630			100	30.5	0.51	13.0	0.65	16.6		
CLT50N-4M630			4,000	1219.2	0.51	13.0	0.65	16.6		
CLT62N-C630			100	30.5	0.66	16.9	0.85	21.1		
CLT62N-2.5M630	Heat Stabilized Nylon 6	Black	2,500	762.0	0.66	16.9	0.85	21.1		
CLT75N-C630			100	30.5	0.77	19.5	0.94	23.9		
CLT75N-2M630			2,000	609.6	0.77	19.5	0.94	23.9		
CLT100N-C630			100	30.5	0.91	23.2	1.10	28.0		
CLT100N-125M630			1,250	381.0	0.91	23.2	1.10	28.0		
CLT125N-L630			50	15.2	1.28	32.5	1.54	39.0		
CLT125N-.75M630			750	228.6	1.28	32.5	1.54	39.0		
CLT150N-D630			500	152.4	1.58	40.0	1.85	47.0		
CLT188N-3C630			300	91.44	1.85	47.0	2.19	55.7		
Nylon Solid										
CLTS25N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.28	7.2	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLTS25N-10M			10,000	3048.0	0.28	7.2	0.40	10.1		
CLTS35N-C			100	30.5	0.35	8.9	0.50	12.8		
CLTS38N-C			100	30.5	0.39	10.0	0.52	13.3		
CLTS50N-C			100	30.5	0.51	13.0	0.65	16.6		
CLTS62N-C			100	30.5	0.66	16.9	0.85	21.1		
CLTS75N-C			100	30.5	0.77	19.5	0.94	23.9		
CLTS75N-2M			2,000	609.6	0.77	19.5	0.94	23.9		
CLTS100N-C			100	30.5	0.91	23.2	1.10	28.0		
CLTS125N-L			50	15.2	1.28	32.5	1.54	39.0		

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Corrugated Loom Tubing Fittings

- Provide a secure way to join CLT at junctions and breakouts while improving the appearance of wire harnesses
- Color: Black
- Material: Halogen-Free Polypropylene
- Temperature Range: -22°F - 212°F (-30°C - 100°C)



Part Number	Branch Diameter		Trunk Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm		
CF382538F-Q	0.38	9.5	0.25	6.4	25	100
CF502550F-Q	0.50	12.7	0.25	6.4		
CF503850F-Q	0.50	12.7	0.38	9.5		
CF752575F-Q	0.75	19.1	0.25	6.4		
CF753875F-Q	0.75	19.1	0.38	9.5		

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Braided Expandable Sleeving

SE — **25** — **PFR** — **M** — **R** — **0**

Type

SE = Sleeving Expandable

Nominal I.D. Size

12 = 1/8" (3.2mm)
25 = 1/4" (6.4mm)
38 = 3/8" (9.5mm)
50 = 1/2" (12.7mm)
75 = 3/4" (19.1mm)
100 = 1" (25.4mm)
125 = 1 1/4" (31.8mm)
150 = 1 1/2" (38.1mm)
175 = 1 3/4" (44.5mm)
200 = 2" (50.8mm)
250 = 2 1/2" (63.5mm)

Material

P = Polyethylene Terephthalate (PET)
PFR = Polyethylene Terephthalate (PET) Flame Retardant
PS = Pan-Wrap Braided Sleeving Polyethylene Terephthalate (PET)
PSC = Fray Resistant Polyethylene Terephthalate (PET)
PSFR = Pan-Wrap Braided Sleeving Flame Retardant Polyethylene Terephthalate (PET)

Package Size

L = 50' (15.2m)
LQ = 75' (22.9m)
C = 100' (30.5m)
CL = 150' (45.7m)
T = 200' (61.0m)
4C = 400' (122.0m)
D = 500' (152.4m)
M = 1000' (304.8m)

R = Reel

Color Suffix

0 = Weather Resistant Black
8 = Gray
10 = White

Braided Expandable Sleeving – Polyethylene Terephthalate (PET)

- Provides continuous abrasion protection for wires, cables, hoses and tubing
- Highly flexible open weave will not trap heat or humidity
- Allows for use with irregular shapes
- Lightweight, durable protection
- Rated for use up to 257°F (125°C)
- Compliant with U.S. and European passenger rail standards
- UL: E116868
- CSA: 227630



Part Number	Color	Nominal I.D. In.	Nominal I.D. mm	Nominal Diameter Range In.	Nominal Diameter Range mm	Length per Reel‡ Ft.	Length per Reel‡ m	Std. Pkg. Qty.	Std. Ctn. Qty.
SE12P-TR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12P-TR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0		
SE12P-MR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8		2
SE12P-MR10	White	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8		
SE25P-TR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0		4
SE25P-TR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0		
SE25P-MR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		2
SE25P-MR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		
SE25P-MR10	White	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		
SE38P-TR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0		4
SE38P-TR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0		
SE38P-MR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		2
SE38P-MR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		
SE38P-MR10	White	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		
SE50P-CR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5		4
SE50P-CR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5		
SE50P-DR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		2
SE50P-DR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		
SE50P-DR10	White	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		
SE75P-CR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5		4
SE75P-CR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5		
SE75P-DR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4		2
SE75P-DR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4		
SE75P-DR10	White	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4		

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

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Braided Expandable Sleeving – Polyethylene Terephthalate (PET) (continued)

Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per Reel‡		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE125P-LR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2	1	4
SE125P-LR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2		
SE125P-TR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		2
SE125P-TR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		
SE125P-TR10	White	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		
SE150P-LR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2		4
SE150P-LR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2		
SE150P-TR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		2
SE150P-TR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		
SE150P-TR10	White	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		
SE175P-TR0	Black	1.75	44.5	1.25 – 2.75	31.8 – 69.9	200	61.0		2
SE200P-TR0		2.00	50.8	1.50 – 3.50	38.1 – 88.9	200	61.0		
SE250P-TR0		2.50	63.5	1.75 – 3.64	44.5 – 92.3	200	61.0		

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Braided Expandable Sleeving – Flame Retardant Polyethylene Terephthalate

- Provides continuous abrasion protection for wires, cables, hoses and tubing
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to 257°F (125°C)
- Allows for use with irregular shapes
- Flammability: Meets UL 1441 VW-1
- Compliant with U.S. and European passenger rail standards
- UL E116868



Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per Reel‡		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE12PFR-TR0	Black	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0	1	4
SE12PFR-MR0		0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8		2
SE12PFR-TR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	200	61.0		4
SE12PFR-MR8	Gray	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8		2
SE12PFR-MR10	White	0.12	3.2	0.094 – 0.250	2.4 – 6.4	1000	304.8		
SE25PFR-TR0	Black	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0		4
SE25PFR-MR0		0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		2
SE25PFR-TR8	Gray	0.25	6.4	0.125 – 0.375	3.2 – 9.5	200	61.0		4
SE25PFR-MR8		0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		2
SE25PFR-MR10	White	0.25	6.4	0.125 – 0.375	3.2 – 9.5	1000	304.8		2
SE38PFR-MR0	Black	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		2
SE38PFR-TR0		0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0		4
SE38PFR-TR8	Gray	0.38	9.5	0.188 – 0.500	4.8 – 12.7	200	61.0		4
SE38PFR-MR8		0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		2
SE38PFR-MR10	White	0.38	9.5	0.188 – 0.500	4.8 – 12.7	1000	304.8		2
SE50PFR-CR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5		4
SE50PFR-CR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	100	30.5		
SE50PFR-DR0	Black	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		2
SE50PFR-DR8	Gray	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		
SE50PFR-DR10	White	0.50	12.7	0.250 – 0.750	6.4 – 19.1	500	152.4		
SE75PFR-CR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5		4
SE75PFR-CR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	100	30.5		

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Braided Expandable Sleeving – Flame Retardant Polyethylene Terephthalate (continued)

Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per Reel‡		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE75PFR-DR0	Black	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4	1	2
SE75PFR-DR8	Gray	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4		
SE75PFR-DR10	White	0.75	19.1	0.500 – 1.25	12.7 – 31.8	500	152.4		
SE125PFR-LR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2		4
SE125PFR-LR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	50	15.2		
SE125PFR-TR0	Black	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		2
SE125PFR-TR8	Gray	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		
SE125PFR-TR10	White	1.25	31.8	0.750 – 1.50	19.1 – 38.1	200	61.0		
SE150PFR-LR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2		4
SE150PFR-LR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	50	15.2		
SE150PFR-TR0	Black	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		2
SE150PFR-TR8	Gray	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		
SE150PFR-TR10	White	1.50	38.1	1.00 – 2.13	25.4 – 54.0	200	61.0		
SE175PFR-TR0	Black	1.75	44.5	1.25 – 2.75	31.8 – 69.9	200	61.0		

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Tooling Head

- Sleeving cutter/end sealer blade – used with popular soldering guns to cut and seal sleeving



Part Number	Part Description	Std. Pkg. Qty.
HKBS	For dual straight shank soldering guns with 0.500" spacing typical guns: WELLER Straight Shank Model 8200; WEN Model 199 or 100 (Replace tip holding screws with (2) screws included).	1

Fray Resistant Braided Expandable Sleeving

- Sleeving design resists fraying when cut with scissors
- Provides continuous abrasion protection resistance for wires, cables, and tubing
- Rated for use up to 257°F (125°C)
- Material: Polyethylene Terephthalate
- UL E116868



Part Number	Color	Nominal I.D.		Nominal Diameter Range		Length per Reel‡		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m		
SE12PSC-TR0	Black	0.12	3.2	0.13 – 0.25	3.2 – 6.4	200	61.0	1	4
SE25PSC-TR0		0.25	6.4	0.16 – 0.44	4.0 – 11.1	200	61.0		
SE38PSC-TR0		0.38	9.5	0.19 – 0.63	4.8 – 15.9	200	61.0		
SE50PSC-CR0		0.50	12.7	0.25 – 0.75	6.4 – 19.1	100	30.5		
SE75PSC-CR0		0.75	19.1	0.63 – 1.0	15.9 – 25.4	100	30.5		
SE125PSC-LR0		1.25	31.8	1.0 – 1.5	25.4 – 38.1	50	15.2		
SE150PSC-LR0		1.50	38.1	1.3 – 2.0	31.8 – 50.8	50	15.2		

‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

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Pan-Wrap™ Braided Sleeving

- Split wrap design allows for installation after cable routing is complete, breakouts of single and multiple cables, and addition or removal of cables post-installation
- 25% edge overlap ensures complete coverage without opening
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to 257°F (125°C)
- Polyethylene Terephthalate (PET) Flammability: Meets UL 94 V-0
- Flame Retardant Polyethylene Terephthalate (PET) Flammability: Meets UL 1441 VW-1



Part Number	Material	Color	Nominal Size Diameter		Nominal Wall Thickness		Length Per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	Ft.	m		
SE12PS-4CR0	Polyethylene Terephthalate (PET)	Black	0.125	3.2	0.024	0.6	400	122.0	1	6
SE25PS-TR0			0.25	6.4	0.025	0.6	200	61.0		
SE50PS-CLR0	Polyethylene Terephthalate (PET)	Black	0.50	12.7	0.025	0.6	150	45.7	1	2
SE75PS-CR0			0.75	19.1	0.025	0.6	100	30.5		
SE100PS-CR0	Polyethylene Terephthalate (PET)		1.00	25.4	0.038	1.0	100	30.5		
SE150PS-LQR0			1.50	38.1	0.038	1.0	75	22.9		
SE12PSFR-4CR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.125	3.2	0.024	0.6	400	122.0	1	6
SE25PSFR-TR0			0.25	6.4	0.025	0.6	200	61.0		
SE50PSFR-CLR0	Flame Retardant Polyethylene Terephthalate (PET)	Black	0.50	12.7	0.025	0.6	150	45.7	1	2
SE75PSFR-CR0			0.75	19.1	0.025	0.6	100	30.5		
SE100PSFR-CR0	Flame Retardant Polyethylene Terephthalate (PET)		1.00	25.4	0.038	1.0	100	30.5		
SE150PSFR-LQR0			1.50	38.1	0.038	1.0	75	22.9		

Part Number System for Non-Shrink PVC Tubing

TV105 — **12** **M**

Type

TV105 = PVC Tubing

Nominal Size

12 = 12 AWG 0.38 = 3/8"
6 = 6 AWG 0.50 = 1/2"
3 = 3 AWG 0.75 = 3/4"
1 = 1 AWG 1.0 = 1"

Package Quantity

C = 100' (30.5m)
TL = 250' (76.2m)
D = 500' (152.4m)
M = 1000' (304.8m)

Color Suffix

Leave Blank = Clear
20 = Black

Order number of pieces required, in multiples of Standard Package Quantity.

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Non-Shrink PVC Tubing



- Provides insulation and protection for lead wires, wire harness assemblies, soldered joints and components in electrical and electronic equipment
- All purpose flexible and non-shrinkable
- Resistant to heat and moisture
- Flammability: Meets UL 224 VW-1
- Voltage rating: 300 V and 600 V
- ASTM D-922 Grade CFR
- MIL-I-631 Type F, Form U, Grade C-Class 1 Category 1
- Material: Polyvinyl chloride (PVC)
- UL oil resistant class 1 rating
- Continuous use temperature range: -4°F – 221°F (-20°C – 105°C)
- UL: E122770 (Black and limited sizes in Clear)
- CSA 75192
- 5 year shelf life

Part Number	Color	Nominal Size	Length Per Reel		Max. Inside Diameter		Wall Thickness		Max. Voltage Rating	Std. Pkg. Qty.	Std. Ctn. Qty.
			Ft.	m	In.	mm	In.	mm			
TV105-12MY	Clear	12 AWG	1000	304.8	0.089	2.3	0.016	0.4	300 V	1	2
TV105-12M20Y	Black		1000	304.8	0.089	2.3	0.016	0.4			
TV105-6MY	Clear	6 AWG	1000	304.8	0.178	4.5	0.020	0.5			
TV105-6M20Y	Black		1000	304.8	0.178	4.5	0.020	0.5			
TV105-3MY	Clear	3 AWG	1000	304.8	0.249	6.3	0.020	0.5			
TV105-3M20Y	Black		1000	304.8	0.249	6.3	0.020	0.5			
TV105-1MY	Clear	1 AWG	1000	304.8	0.311	7.9	0.020	0.5	300 V	1	—
TV105-1M20Y	Black		1000	304.8	0.311	7.9	0.020	0.5			
TV105-.38DY	Clear	3/8	500	152.4	0.399	10.1	0.025	0.6	600 V	1	—
TV105-.38D20Y	Black		500	152.4	0.399	10.1	0.025	0.6			
TV105-.50DY	Clear	1/2	500	152.4	0.524	13.3	0.025	0.6			
TV105-.50D20Y	Black		500	152.4	0.524	13.3	0.025	0.6			
TV105-.75TLY	Clear	3/4	250	76.2	0.786	20.0	0.035	0.9			
TV105-.75TL20Y	Black		250	76.2	0.786	20.0	0.035	0.9			
TV105-1.0CY	Clear	1	100	30.5	1.036	26.3	0.035	0.9	600 V	1	2
TV105-1.0C20Y	Black		100	30.5	1.036	26.3	0.035	0.9			

Duct Seal – Sealing Compounds

- Seals irregular openings from air, dust, or water
- Non-hardening sealant that adheres to metal, masonry, wood or plastic
- Provides vibration dampening
- Safe and easy to use, non-corrosive, non-toxic, no asbestos, will not stain or harm hands, and no unpleasant odor
- Dielectric strength: 200 V/Mil, Min 0.030" thick
- Temperature range: -30°F – 210°F (-34°C – 98°C)
- 10 year minimum shelf life
- Indoor use only



Part Number	Part Description	Std. Pkg. Qty.
DS1	Duct seal (sealing compound) 1 lb. package	1
DS5	Duct seal (sealing compound) 5 lb. package	

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Abrasion Protection Materials Technical Data

	Ratings and Approvals			Chemical Resistance			
	UL Temperature Index	Flammability (UL 94)	Melting Temperature	Organic Solvents	Alkalies	Acids	Petro-Chemicals
Spiral Wrap							
Natural Polyethylene Lowest cost material for indoor use up to 122°F. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)				No Discoloration
Fire Resistant Polyethylene* UL94-V-2 Rating. This material is self extinguishing and passes the UL 94 flame retardant test with V-2 rating.		V–2	239°F (115°C)				Some Discoloration
Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 122°F (50°C)	V–0	270°F (132°C)	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration
Weather Resistant Polypropylene This material is resistant to chemical attack and is suitable for harsh environment applications requiring UV/weather resistance and withstanding high temperatures.	-40°F (-40°C) to 239°F (115°C)	HB	334°F (168°C)				Resistant No Discoloration
Nylon 6.6 Nylon is strong, durable material for indoor use up to 149°F. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing.	-40°F (-40°C) to 149°F (65°C)	HB	505°F (263°C)	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
Weather Resistant Nylon 6.6 This material has the same properties as natural Nylon and also has additives which allow it to resist the effects of ultraviolet light in an outdoor environment. This product is available in black only.		HB					
TFE‡* This material is a non-flammable, fluorocarbon resin material. Highly resistant to most chemicals, high resistance to UV exposure, wide operating temperature range, can be used in cryogenic applications. Color: Opaque to Translucent.	-454°F (-270°C) to 356°F (180°C)	V–0	648°F (342°C)	Resistant	Resistant	Resistant	Resistant No Discoloration
Pan-Wrap™							
Natural Polyethylene Lowest cost material for indoor use up to 122°C. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 122°F (50°C)	V–0	270°F (132°C)	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration

Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.
‡TFE is Polytetrafluoroethylene material.
*Contains halogens. Other materials are halogen free.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Abrasion Protection Materials Technical Data (continued)

	Ratings and Approvals			Chemical Resistance			
	UL Temperature Index	Flammability (UL 94)	Melting Temperature	Organic Solvents	Alkalies	Acids	Petro-Chemicals
Sleeving							
Polyethylene Terephthalate (PET) This material is a thermoplastic polyester material designed for indoor applications.It is rated for use up to 257°F and will tolerate short-term exposure up to 446°F. Colors: Weather Resistant Black, White and Gray.	-94°F (-70°C) to 257°F (125°C)	V–0	500°F (260°C)	Resistant to some solvents	Resistant to most weak bases	Resistant	Some Discoloration
Flame Retardant Polyethylene Terephthalate (PET) This material is a self-extinguishing thermoplastic polyester that can be used indoors. It is also rated for use up to 257°F and will tolerate short term exposure up to 446°F. It is provided with tracers to identify the flame retardant material.		UL 1441 VW–1	469°F (243°C)				Resistant Some Discoloration
CLT							
Black Polyethylene Lowest cost material is for use up to 122°F. Other colors may be available.	-40°F (-40°C) to 122°F (50°C)	HB	–	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant No Discoloration
Nylon 6 Nylon is a strong, impact modified, heat stabilized, durable high abrasion resistant material.	-40°F (-40°C) to 230°F (110°C)		410°F (211°C)			Not recommended	
CLT Fittings							
Black Polypropylene Lowest cost material is for use up to 212°F. Halogen-Free.	-40°F (-40°C) to 122°F (50°C)	UL94 HB	–	Resistant except to halogenated hydrocarbons	Resistant	Resistant except to oxidizing acids	Resistant Some Discoloration
PVC							
PVC Non-Shrink Tubing* This material provides insulation and protection for continuous use at temperature -4°F (-20°C) to 221°F(105°C).	-4°F (-20°C) to 221°F (105°C)	UL 224 VW-1 **	–	Resistant except to aromatic hydrocarbons, ketones and esters	Resistant	Resistant	Resistant No Discoloration
Grommet Edging							
Natural Polyethylene Lowest cost material for indoor use up to 122° F. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only.					Resistant	Resistant except to oxidizing acids	No Discoloration
Flame Retardant Polyethylene* UL94-V-0 Rating This material is self-extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 122°F (50°C)	V–0	270°F (132°C)	Resistant below 194°F (90°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
Nylon Nylon is strong, durable, self-extinguishing material for indoor use up to 149°F. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing.	-40°F (-40°C) to 149°F (65°C)	V–2	491°F (255°C)	Resistant except to phenols and formic acid	Resistant	Resistant to most weak acids	No Discoloration

Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.
*Contains halogens. Other materials are halogen free.
**Limited sizes in Clear

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Part Number System for Thin Wall Heat Shrink

HSTT — **12** — **48** — **Q** — **10**

Type

HSTT = Thin Wall
HSTTV = Thin Wall VW-1
HSTTK = Thin Wall PVDF
HSTTT = Thin Wall TFE‡
HSTTP = Thin Wall PVC
HSTTPN = Crystal Clear Thin Wall PVC
HSTTVA = Flexible Adhesive Lined
HSTTRA = Semi-Rigid Adhesive Lined
HSTTA = Thin Wall Adhesive Lined
HSTT4A = 4:1 Thin Wall Adhesive Lined
HST = Thick Wall Adhesive Lined
HSEC = Heat Shrink End Caps Adhesive Lined
HSECFR = Heat Shrink End Caps Flame Retardant Adhesive Lined

Expanded Diameter

05 = 3/64" (1.2mm)
06 = 1/16" (1.6mm)
09 = 3/32" (2.4mm)
12 = 1/8" (3.2mm)
19 = 3/16" (4.8mm)
25 = 1/4" (6.4mm)
38 = 3/8" (9.5mm)
50 = 1/2" (12.7mm)
75 = 3/4" (19.1mm)
100 = 1" (25.4mm)
150 = 1 1/2" (38.1mm)
200 = 2" (50.8mm)
300 = 3" (76.2mm)
400 = 4" (101.6mm)
0.4 = 0.40" (10.2mm)
0.5 = 0.47" (11.9mm)
0.8 = 0.80" (20.3mm)
1.0 = 1.0" (25.4mm)
1.1 = 1.1" (27.9mm)
1.5 = 1.5" (38.1mm)
2.0 = 2.0" (50.8mm)
2.7 = 2.7" (68.6mm)
3.0 = 3.0" (76.2mm)
3.5 = 3.5" (88.9mm)
4.0 = 4.0" (101.6mm)

Tube Length

3 = 3" (76.2mm)
6 = 6" (152.4mm)
9 = 9" (228.6mm)
12 = 12" (304.8mm)
48 = 48" (1.2m)
Y = 6" Pcs.
NONE = REEL

Package Quantity

(If Tube Length Specified)
1 = 1 Pc.
2 = 2 Pcs.
3 = 3 Pcs.
5 = 5 Pcs.
X = 10 Pcs.
Q = 25 Pcs.
LQ = 75 Pcs.
CQ = 125 Pcs.
T = 200 Pcs.
TL = 250 Pcs.

Reels

(If No Tube Length Specified)
Q = 25' (7.6m)
L = 50' (15.2m)
C = 100' (30.5m)
T = 200' (61.0m)
D = 500' (152.4m)
M = 1000' (304.8m)

Color

NONE = Black
C = Clear
1 = Brown
2 = Red
3 = Orange
4 = Yellow
5 = Green
6 = Blue
10 = White
45 = Yellow/Green

For Standard Packages containing 6" (152.4mm) lengths, refer to individual pages for complete part number offering.
Note: The above information is to be used as a guide. For specific part number offerings review individual pages for verification.
‡TFE is Polytetrafluoroethylene material.

Order number of pieces required, in multiples of Standard Package Quantity.

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HSTT Heat Shrink 4 Foot Pieces and Reels

- Applications include insulating, protecting, and color coding wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Flame retardant EXCEPT clear
- Mil Spec: AMS-DTL-23053/5 Class 1 (Colors) Class 2 (Clear)**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770 (Except Clear)
- CSA: 222627
- 5 year shelf life***



Part Number*	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Length per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m	Ft.	m		
HSTT05-48-Q	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	4	1.2	—	—	25	—
HSTT05-48-TL	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	4	1.2	—	—	250	—
HSTT05-C‡	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	—	—	100	30.5	1	10
HSTT05-M‡	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	—	—	1,000	304.8	1	2
HSTT06-48-Q	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4	4	1.2	—	—	25	—
HSTT06-C‡	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4	—	—	100	30.5	1	10
HSTT06-M‡	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4	—	—	1,000	304.8	1	2
HSTT09-48-Q	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5	4	1.2	—	—	25	—
HSTT09-C‡	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5	—	—	100	30.5	1	10
HSTT09-M‡	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5	—	—	1,000	304.8	1	2
HSTT12-48-Q	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	4	1.2	—	—	25	—
HSTT12-C‡	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	—	—	100	30.5	1	10
HSTT12-M‡	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	—	—	1,000	304.8	1	2
HSTT19-48-Q	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5	4	1.2	—	—	25	—
HSTT19-C‡	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5	—	—	100	30.5	1	10
HSTT19-M‡	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5	—	—	1,000	304.8	1	2
HSTT25-48-Q	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	4	1.2	—	—	25	—
HSTT25-C‡	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	—	—	100	30.5	1	10
HSTT25-D‡	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	—	—	500	152.4	1	2
HSTT38-48-Q	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	4	1.2	—	—	25	—
HSTT38-C‡	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	—	—	100	30.5	1	10
HSTT38-T‡	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	—	—	200	61.0	1	2

*For colors, add C (Clear), 1 (Brown), 2 (Red), 3 (Orange), 4 (Yellow), 45 (Yellow/Green), 5 (Green), 6 (Blue) and 10 (White) to end of part number. Contact customer service for availability.
‡Part sold per reel.
**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Continued on next page

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HSTT Heat Shrink 4 Foot Pieces and Reels (continued)

Part Number*	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Length per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m	Ft.	m		
HSTT50-48-5	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	4	1.2	—	—	5	—
HSTT50-48-Q	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	4	1.2	—	—	25	—
HSTT50-C‡	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	—	—	100	30.5	1	10
HSTT50-T‡	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	—	—	200	61.0	1	2
HSTT75-48-5	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	4	1.2	—	—	5	—
HSTT75-C‡	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	—	—	100	30.5	1	10
HSTT75-T‡	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	—	—	200	61.0	1	2
HSTT100-48-5	1.00	25.4	1.00	25.4	0.500	12.7	0.035	0.9	4	1.2	—	—	5	—
HSTT100-C‡	1.00	25.4	1.00	25.4	0.500	12.7	0.035	0.9	—	—	100	30.5	1	2
HSTT150-48-5	1.50	38.1	1.50	38.1	0.750	19.1	0.040	1.0	4	1.2	—	—	5	—
HSTT150-C‡	1.50	38.1	1.50	38.1	0.750	19.1	0.040	1.0	—	—	100	30.5	1	2
HSTT200-48-5	2.00	50.8	2.00	50.8	1.00	25.4	0.045	1.1	4	1.2	—	—	5	—
HSTT200-L‡	2.00	50.8	2.00	50.8	1.00	25.4	0.045	1.1	—	—	50	15.2	1	2
HSTT300-48-2	3.00	76.2	3.00	76.2	1.50	38.1	0.050	1.3	4	1.2	—	—	2	—
HSTT300-L‡	3.00	76.2	3.00	76.2	1.50	38.1	0.050	1.3	—	—	50	15.2	1	0
HSTT400-48-2	4.00	101.6	4.00	101.6	2.00	50.8	0.055	1.4	4	1.2	—	—	2	—
HSTT400-L‡	4.00	101.6	4.00	101.6	2.00	50.8	0.055	1.4	—	—	50	15.2	1	0

*For colors, add C (Clear), 1 (Brown), 2 (Red), 3 (Orange), 4 (Yellow), 45 (Yellow/Green), 5 (Green), 6 (Blue) and 10 (White) to end of part number. Contact customer service for availability.
‡Part sold per reel.

HSTT Heat Shrink on 25 Foot Reels

- Applications include insulating and protecting wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Flame retardant EXCEPT clear
- Mil Spec: AMS-DTL-23053/5 Class 1 (Black) Class 2 (Clear)**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number*	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
HSTT05-Q	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	1	10
HSTT06-Q	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4		
HSTT09-Q	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5		
HSTT12-Q	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5		
HSTT19-Q	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5		
HSTT25-Q	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6		
HSTT38-Q	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6		
HSTT50-Q	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6		
HSTT75-Q	0.750	19.9	0.750	19.9	0.375	9.5	0.030	0.8		

*For colors, add C (Clear) or 45 (Yellow/Green) to end of part number. Contact customer service for availability.
**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Heat Shrink in 6 Inch Pieces; Black, Single Diameter

- Applications include insulating and protecting wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Flame retardant
- Mil Spec: AMS-DTL-23053/5 Class 1**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Total No. Pcs.	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			
HSTT06-Y	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4	26	1	10
HSTT09-Y	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5	24		
HSTT12-Y	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	20		
HSTT19-Y	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5	18		
HSTT25-Y	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	14		
HSTT38-Y	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	12		
HSTT50-Y	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	10		
HSTT75-Y	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	8		
HSTT100-Y	1.00	25.4	1.00	25.4	0.500	12.7	0.035	0.9	6		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Heat Shrink in 6 Inch Pieces; Multi-Color, Single Diameter

- Applications include insulating, protecting, and color coding wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Flame retardant EXCEPT clear
- Mil Spec: AMS-DTL-23053/5 Class 1 (Colors) Class 2 (Clear)**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- Colors include: clear, red, yellow, green, blue and white
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Total No. Pcs.	Black No. of Pcs.	Each Color No. of Pcs.	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm					
HSTT06-YK1	0.063	1.6	0.063	1.6	0.031	0.8	26	8	3	1	10
HSTT09-YK1	0.093	2.4	0.093	2.4	0.046	1.2	24	6			
HSTT12-YK1	0.125	3.2	0.125	3.2	0.062	1.6	20	2			
HSTT19-YK1	0.187	4.8	0.187	4.8	0.093	2.4	18	6	2		
HSTT25-YK1	0.250	6.4	0.250	6.4	0.125	3.2	14	2			
HSTT38-YK1	0.375	9.5	0.375	9.5	0.187	4.8	12	6	1		
HSTT50-YK1	0.500	12.7	0.500	12.7	0.250	6.4	10	4			
HSTT75-YK1	0.750	19.1	0.750	19.1	0.375	9.5	8	2			
HSTT100-YK1	1.00	25.4	1.00	25.4	0.500	12.7	7	1			

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

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Heat Shrink in 6 Inch Pieces; Black, Multiple Diameters

- Applications include insulating and protecting wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Mil Spec: AMS-DTL-23053/5 Class 1**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter	No. of Pieces by Diameter	Total No. Pcs.	Std. Pkg. Qty.	Std. Ctn. Qty.
HSTT-YK1	Various – Smaller Range	Two pcs. each 1/8", 1/16", 3/32", 1/4", 3/16", 3/8", 1/2"	14	1	10
HSTT-YK2	Various – Larger Range	Two pcs. each 3/8", 1/2", 3/4", 1"	8		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Heat Shrink in 6 Inch Pieces; Yellow/Green Stripe, Multiple Diameters

- Applications include insulating, protecting, and color coding wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Flame retardant
- Mil Spec: AMS-DTL-23053/5 Class 1**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter	No. of Pieces by Diameter	Total No. Pcs.	Std. Pkg. Qty.	Std. Ctn. Qty.
HSTT-YK1-45	Various – Smaller Range	Two pcs. each 1/8", 3/16", 1/4", 3/8"	8	1	10
HSTT-YK2-45	Various – Larger Range	Two pcs. each 3/8", 1/2", 3/4"	6		

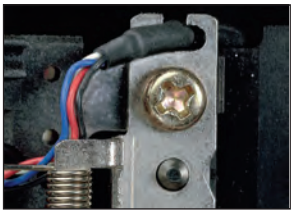
**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTV Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Fast shrink time
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/5 Class 3**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Black cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
HSTTV05-48-Q	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	25	—
HSTTV06-48-Q	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4		
HSTTV09-48-Q	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5		
HSTTV12-48-Q	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5		
HSTTV19-48-Q	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5		
HSTTV25-48-Q	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6		
HSTTV38-48-Q	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6		
HSTTV50-48-Q	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6		
HSTTV75-48-5	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	5	—
HSTTV100-48-5	1.00	25.4	1.00	25.4	0.500	12.7	0.035	0.9		
HSTTV150-48-5	1.50	38.1	1.50	38.1	0.750	19.1	0.040	1.0		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTV Heat Shrink on 100 Foot Reels

- Applications include insulating and protecting wires and cables
- Fast shrink time
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/5 Class 3**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Black Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
HSTTV05-C	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	1	10
HSTTV06-C	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4		
HSTTV09-C	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5		
HSTTV12-C	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5		
HSTTV19-C	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5		
HSTTV25-C	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6		
HSTTV38-C	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6		
HSTTV50-C	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6		
HSTTV75-C	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8		
HSTTV100-C	1.00	25.4	1.00	25.4	0.500	12.7	0.035	0.9	1	2
HSTTV150-C	1.50	38.1	1.50	38.1	0.750	19.1	0.040	1.0		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTV Heat Shrink on Bulk Reels

- Applications include insulating and protecting wires and cables
- Fast shrink time
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/5 Class 3**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length per Reel		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m			
HSTTV05-M	0.046	1.2	0.046	1.2	0.023	0.6	0.016	0.4	1000	304.8	Black	1	2
HSTTV06-M	0.063	1.6	0.063	1.6	0.031	0.8	0.017	0.4	1000	304.8			
HSTTV09-M	0.093	2.4	0.093	2.4	0.046	1.2	0.020	0.5	1000	304.8			
HSTTV12-M	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	1000	304.8			
HSTTV19-M	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5	1000	304.8			
HSTTV25-D	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	500	152.4	Black	1	2
HSTTV25-D10	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	500	152.4	White		
HSTTV25-D5	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	500	152.4	Green		
HSTTV38-T	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	200	61.1	Black		
HSTTV38-T5	0.375	9.5	0.375	9.5	0.187	4.8	0.025	0.6	200	61.1	Green		
HSTTV50-T	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	200	61.1	Black		
HSTTV50-T5	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6	200	61.1	Green		
HSTTV75-T	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	200	61.1	Black		
HSTTV75-T10	0.750	19.1	0.750	19.1	0.375	9.5	0.030	0.8	200	61.1	White		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTV Heat Shrink on 25 Foot Reels

- Applications include insulating and protecting wires and cables
- Fast shrink time
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/5 Class 3**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Black Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
HSTTV12-Q	0.125	3.2	0.125	3.2	0.062	1.6	0.020	0.5	1	10
HSTTV19-Q	0.187	4.8	0.187	4.8	0.093	2.4	0.020	0.5		
HSTTV50-Q	0.500	12.7	0.500	12.7	0.250	6.4	0.025	0.6		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

HSTTV Heat Shrink 6 Inch Pieces

- Applications include insulating and protecting wires and cables
- Fast shrink time
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/5 Class 3**
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- For dry locations
- Material: Black Cross-linked Polyolefin
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Pieces Per Package	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
HSTTV05-Y	0.046	1.2	0.046	1.2	0.023	0.6	26	1	10
HSTTV06-Y	0.063	1.6	0.063	1.6	0.031	0.8			
HSTTV09-Y	0.093	2.4	0.093	2.4	0.046	1.2	24		
HSTTV12-Y	0.125	3.2	0.125	3.2	0.062	1.6	20		
HSTTV19-Y	0.187	4.8	0.187	4.8	0.093	2.4	18		
HSTTV25-Y	0.250	6.4	0.250	6.4	0.125	3.2	14		
HSTTV38-Y	0.375	9.5	0.375	9.5	0.187	4.8	12		
HSTTV50-Y	0.500	12.7	0.500	12.7	0.250	6.4	10		
HSTTV75-Y	0.750	19.1	0.750	19.1	0.375	9.5	8		
HSTTV100-Y	1.00	25.4	1.00	25.4	0.500	12.7	6		

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTP PVC Heat Shrink

- Applications include insulating and protecting wires and cables
- Good resistance to most fuels and oils
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Temperature range: -4°F to 221°F (-20°C to 105°C)
- For dry locations
- Material: Black cross-linked Polyvinyl Chloride
- Mil Spec: AMS-DTL-23053/2 Class 1**
- UL: E122770
- CSA: 75192
- 1 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length Per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m		
HSTTP05-MY	0.046	1.2	0.046	1.2	0.023	0.6	0.020	0.5	1000	304.8	1	2
HSTTP06-QY	0.063	1.6	0.063	1.6	0.031	0.8	0.020	0.5	25	7.6		10
HSTTP06-CY	0.063	1.6	0.063	1.6	0.031	0.8	0.020	0.5	100	30.5		2
HSTTP09-QY	0.093	2.4	0.093	2.4	0.046	1.2	0.025	0.6	25	7.6		10
HSTTP09-CY	0.093	2.4	0.093	2.4	0.046	1.2	0.025	0.6	100	30.5		2
HSTTP09-MY	0.093	2.4	0.093	2.4	0.046	1.2	0.025	0.6	1000	304.8		2
HSTTP12-QY	0.125	3.2	0.125	3.2	0.062	1.6	0.025	0.6	25	7.6		10
HSTTP12-CY	0.125	3.2	0.125	3.2	0.062	1.6	0.025	0.6	100	30.5		2
HSTTP19-QY	0.187	4.8	0.187	4.8	0.093	2.4	0.025	0.6	25	7.6		10
HSTTP19-CY	0.187	4.8	0.187	4.8	0.093	2.4	0.025	0.6	100	30.5		2
HSTTP25-QY	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	25	7.6		10
HSTTP25-CY	0.250	6.4	0.250	6.4	0.125	3.2	0.025	0.6	100	30.5		2
HSTTP38-QY	0.375	9.5	0.375	9.5	0.187	4.8	0.030	0.8	25	7.6		10
HSTTP38-CY	0.375	9.5	0.375	9.5	0.187	4.8	0.030	0.8	100	30.5		2
HSTTP50-QY	0.500	12.7	0.500	12.7	0.250	6.4	0.030	0.8	25	7.6		10
HSTTP50-CY	0.500	12.7	0.500	12.7	0.250	6.4	0.030	0.8	100	30.5		2
HSTTP75-QY	0.750	19.1	0.750	19.1	0.375	9.5	0.035	0.9	25	7.6		10
HSTTP75-CY	0.750	19.1	0.750	19.1	0.375	9.5	0.035	0.9	100	30.5		2
HSTTP100-QY	1.00	25.4	1.00	25.4	0.500	12.7	0.040	1.0	25	7.6		2
HSTTP100-CY	1.00	25.4	1.00	25.4	0.500	12.7	0.040	1.0	100	30.5		2
HSTTP150-QY	1.50	38.1	1.50	38.1	0.750	19.1	0.045	1.1	25	7.6		2
HSTTP150-CY	1.50	38.1	1.50	38.1	0.750	19.1	0.045	1.1	100	30.5		2
HSTTP200-QY	2.00	50.8	2.00	50.8	1.00	25.4	0.050	1.3	25	7.6		2

**Material Performance Only.
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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTPN PVC Heat Shrink



- Low shrink temperature (store below 90°F) to speed installation
- Crystal clear material ensures easy to read labels and splice inspections
- Voltage: 600 V
- Shrink ratio of 2:1 insulates a wide range of diameters and irregular shapes
- Highly flame retardant product manufactured from a material that is rated UL 224 VW-1
- Temperature range: -4°F to 221°F (-20°C to 105°C)
- For dry locations
- Material: Clear Polyvinyl Chloride
- Mil Spec: AMS-DTL-23053/2 Class 2**
- UL: E122770
- CSA: 75192
- 1 year shelf life***

Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Length per Reel		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m		
HSTTPN50-438-L	0.46	11.7	0.46	11.7	0.25	6.4	0.022	0.6	4.38	111.3	—	—	50	500
HSTTPN50-713-Q	0.46	11.7	0.46	11.7	0.25	6.4	0.022	0.6	7.13	181.1	—	—	25	250
HSTTPN62-750-Q	0.56	14.3	0.56	14.3	0.31	8.0	0.027	0.7	7.50	190.5				
HSTTPN75-775-Q	0.70	17.7	0.70	17.7	0.38	9.5	0.027	0.7	7.75	196.9				
HSTTPN100-775-Q	0.90	22.9	0.90	22.9	0.50	12.7	0.030	0.8	7.75	196.9				
HSTTPN150-925-X	1.40	35.4	1.40	35.4	0.75	19.1	0.030	0.8	9.25	235.0	—	—	10	100
HSTTPN200-950-X	1.80	45.7	1.80	45.7	1.00	25.4	0.039	1.0	9.50	241.3				
HSTTPN50-CC	0.46	11.7	0.46	11.7	0.25	6.4	0.022	0.6	—	—	100	30.5	1	2
HSTTPN62-CC	0.56	14.3	0.56	14.3	0.31	8.0	0.027	0.7						
HSTTPN75-CC	0.70	17.7	0.70	17.7	0.38	9.5	0.027	0.7						
HSTTPN100-CC	0.90	22.9	0.90	22.9	0.50	12.7	0.030	0.8	—	—				
HSTTPN150-CC	1.40	35.4	1.40	35.4	0.75	19.1	0.030	0.8						
HSTTPN200-CC	1.80	45.7	1.80	45.7	1.00	25.4	0.039	1.0						

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTT TFE Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Voltage: 600 V
- Shrink ratio: 2:1
- Mil Spec: AMS-DTL-23053/12 Class 2 and 3**
- Temperature range: -88°F to 482°F (-67°C to 250°C)
- Color: Opaque
- For dry locations
- Material: Halogen-Free Polytetrafluoroethylene (TFE)
- High temperature; resists corrosive atmosphere
- See page C3.38 for shrink instructions
- 4 year shelf life***



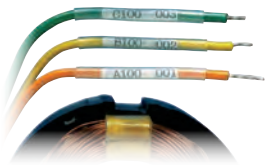
Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m	
HSTTT03-48-Q	30 AWG	0.9	0.034	0.9	0.015	0.4	0.009	0.2	4	1.2	25
HSTTT04-48-Q	28 AWG	1.0	0.038	1.0	0.018	0.5	0.009	0.2			
HSTTT046-48-Q	26 AWG	1.2	0.046	1.2	0.022	0.5	0.010	0.3			
HSTTT05-48-Q	24 AWG	1.3	0.050	1.3	0.027	0.7	0.010	0.3			
HSTTT055-48-Q	22 AWG	1.4	0.055	1.4	0.032	0.8	0.012	0.3			
HSTTT06-48-Q	20 AWG	1.5	0.060	1.5	0.039	1.0	0.012	0.3			
HSTTT08-48-Q	18 AWG	1.9	0.076	1.9	0.049	1.2	0.012	0.3			
HSTTT09-48-Q	16 AWG	2.3	0.093	2.3	0.061	1.6	0.012	0.3			
HSTTT12-48-Q	14 AWG	3.0	0.120	3.0	0.072	1.8	0.012	0.3			
HSTTT15-48-Q	12 AWG	3.8	0.150	3.8	0.089	2.3	0.012	0.3			
HSTTT19-48-Q	10 AWG	4.9	0.191	4.9	0.112	2.8	0.012	0.3			
HSTTT24-48-Q	8 AWG	6.0	0.240	6.0	0.141	3.6	0.015	0.4			
HSTTT30-48-Q	6 AWG	7.7	0.302	7.7	0.178	4.5	0.015	0.4			
HSTTT37-48-Q	4 AWG	9.4	0.370	9.4	0.224	5.7	0.015	0.4			
HSTTT43-48-Q	2 AWG	10.9	0.430	10.9	0.278	7.0	0.015	0.4			
HSTTT47-48-Q	0 AWG	11.9	0.470	11.9	0.347	8.8	0.015	0.4			
HSTTT56-48-5^	9/16	14.2	0.560	14.2	0.399	10.1	0.015	0.4	4	1.2	5
HSTTT66-48-5^	5/8	16.6	0.655	16.6	0.462	11.7	0.018	0.5			
HSTTT75-48-5^	3/4	19.1	0.750	19.1	0.524	13.3	0.018	0.5			
HSTTT93-48-5^	15/16	23.6	0.930	23.6	0.655	16.6	0.020	0.5			
HSTTT112-48-5^	1 1/8	28.6	1.12	28.6	0.786	20.0	0.025	0.6			
HSTTT131-48-2^	1 15/16	33.3	1.31	33.3	0.911	23.1	0.030	0.8	4	1.2	2
HSTTT150-48-2^	1 1/2	38.1	1.50	38.1	1.036	26.3	0.030	0.8			

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.
^ Part numbers are Class 2.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

HSTTK PVDF Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Excellent chemical and abrasion resistance
- Use in high temperature or solvent rich environment
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/8**
- Temperature range: -67°F to 347°F (-55°C to 175°C)
- For dry locations
- Material: Halogen-Free Clear Cross-linked Polyvinylidene Fluoride (PVDF)
- UL: E122770
- CSA: 222627
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	
HSTTK05-48-Q	0.046	1.2	0.046	1.2	0.023	0.6	0.010	0.3	25
HSTTK06-48-Q	0.063	1.6	0.063	1.6	0.031	0.8			
HSTTK09-48-Q	0.093	2.4	0.093	2.4	0.046	1.2			
HSTTK12-48-Q	0.125	3.2	0.125	3.2	0.062	1.6			
HSTTK19-48-Q	0.187	4.8	0.187	4.8	0.093	2.4			
HSTTK25-48-Q	0.250	6.4	0.250	6.4	0.125	3.2	0.012	0.3	25
HSTTK38-48-Q	0.375	9.5	0.375	9.5	0.187	4.8			
HSTTK50-48-5	0.500	12.7	0.500	12.7	0.250	6.4	0.012	0.3	5
HSTTK75-48-5	0.750	19.1	0.750	19.1	0.375	9.5	0.017	0.4	5
HSTTK100-48-5	1.00	25.4	1.00	25.4	0.500	12.7	0.019	0.5	

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

HSTTVA Heat Shrink 4 Foot and 6 Inch Pieces

- Applications include insulating and protecting wires and cables
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 2:1
- Flammability: Outer wall flame retardant
- Mil Spec: AMS-DTL-23053/4 Class 2**
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin
- UL: 342365
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	
4' (1.22m) Pieces									
HSTTVA12-48-Q	0.125	3.2	0.125	3.2	0.063	1.6	0.021	0.5	25
HSTTVA19-48-Q	0.187	4.8	0.187	4.8	0.093	2.4	0.023	0.6	
HSTTVA25-48-Q	0.250	6.4	0.250	6.4	0.125	3.2	0.029	0.7	
HSTTVA38-48-Q	0.375	9.5	0.375	9.5	0.187	4.8	0.029	0.7	
HSTTVA50-48-5	0.500	12.7	0.500	12.7	0.250	6.4	0.030	0.8	5
HSTTVA75-48-5	0.750	19.1	0.750	19.1	0.375	9.5	0.035	0.9	
HSTTVA100-48-5	1.00	25.4	1.00	25.4	0.500	12.7	0.042	1.1	
HSTTVA150-48-5	1.50	38.1	1.50	38.1	0.750	19.1	0.047	1.2	

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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HSTTVA Heat Shrink 4 Foot and 6 Inch Pieces (continued)

Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Pieces per Package
	In.	mm	In.	mm	In.	mm	In.	mm		
6" (152.4mm) Pieces										
HSTTVA12-Y	0.125	3.2	0.125	3.2	0.063	1.6	0.021	0.5	1	7
HSTTVA19-Y	0.187	4.8	0.187	4.8	0.093	2.4	0.023	0.6		
HSTTVA25-Y	0.250	6.4	0.250	6.4	0.125	3.2	0.029	0.7	1	5
HSTTVA38-Y	0.375	9.5	0.375	9.5	0.187	4.8	0.029	0.7		4
HSTTVA50-Y	0.500	12.7	0.500	12.7	0.250	6.4	0.030	0.8		4
HSTTVA75-Y	0.750	19.1	0.750	19.1	0.375	9.5	0.035	0.9		3
HSTTVA100-Y	1.00	25.4	1.00	25.4	0.500	12.7	0.042	1.1		2

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

HSTTA Heat Shrink 4 Foot and 6 Inch Pieces

- Applications include insulating and protecting wires and cables
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 3:1
- Flammability: Outer wall flame retardant
- Mil Spec: AMS-DTL-23053/4 Class 3**
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin
- UL: E342365
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
4' (1.22m) Pieces										
HSTTA19-48-Q	0.187	4.8	0.187	4.8	0.062	1.6	0.040	1.0	25	—
HSTTA25-48-Q	0.250	6.4	0.250	6.4	0.080	2.0			25	
HSTTA25-48-TL	0.250	6.4	0.250	6.4	0.080	2.0			250	
HSTTA38-48-Q	0.375	9.5	0.375	9.5	0.120	3.0	0.055	1.4	25	—
HSTTA38-48-TL	0.375	9.5	0.375	9.5	0.120	3.0			250	
HSTTA50-48-5	0.500	12.7	0.500	12.7	0.160	4.1	0.070	1.8	5	—
HSTTA50-48-T	0.500	12.7	0.500	12.7	0.160	4.1			200	
HSTTA75-48-5	0.750	19.1	0.750	19.1	0.250	6.4	0.085	2.2	5	—
HSTTA75-48-C	0.750	19.1	0.750	19.1	0.250	6.4			100	
HSTTA100-48-5	1.00	25.4	1.00	25.4	0.320	8.1	0.100	2.5	5	—
HSTTA100-48-L	1.00	25.4	1.00	25.4	0.320	8.1			50	
HSTTA150-48-5	1.50	38.1	1.50	38.1	0.510	12.9			5	
HSTTA150-48-Q	1.50	38.1	1.50	38.1	0.510	12.9			25	

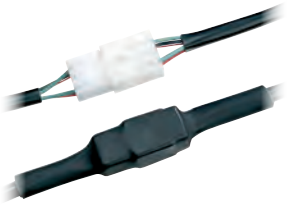
Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.	Std. Ctn. Qty.	Pieces per Package
	In.	mm	In.	mm	In.	mm	In.	mm			
6" (152.4mm) Pieces											
HSTTA19-Y	0.187	4.8	0.187	4.8	0.062	1.6	0.040	1.0	1	10	6
HSTTA25-Y	0.250	6.4	0.250	6.4	0.080	2.0	0.040	1.0	1	10	4
HSTTA38-Y	0.375	9.5	0.375	9.5	0.120	3.0	0.055	1.4	1	10	3
HSTTA50-Y	0.500	12.7	0.500	12.7	0.160	4.1	0.070	1.8			
HSTTA75-Y	0.750	19.1	0.750	19.1	0.250	6.4	0.085	2.2	1	10	2
HSTTA100-Y	1.00	25.4	1.00	25.4	0.320	8.1	0.100	2.5			
HSTTA150-Y	1.50	38.1	1.50	38.1	0.510	12.9	0.100	2.5	1	10	1

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

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HSTT4A Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting oversized electrical and electronic components, cables, terminals and connectors
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage: 600 V
- Shrink ratio: 4:1
- Flammability: Flame retardant outer wall meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/4 Class 3**
- Temperature range: -67°F to 257°F (-55°C to 125°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin
- UL: E342365
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Ft.	m	
HSTT4A15-48-Q	0.158	4.0	0.158	4.0	0.039	1.0	0.043	1.10	4	1.2	25
HSTT4A31-48-Q	0.315	8.0	0.315	8.0	0.079	2.0	0.043	1.10			
HSTT4A47-48-Q	0.472	12.0	0.472	12.0	0.118	3.0	0.055	1.40			
HSTT4A62-48-5	0.630	16.0	0.630	16.0	0.158	4.0	0.070	1.80	4	1.2	5
HSTT4A94-48-5	0.945	24.0	0.945	24.0	0.236	6.0	0.088	2.25			
HSTT4A125-48-5	1.26	32.0	1.26	32.0	0.315	8.0	0.100	2.54			
HSTT4A200-48-5	2.05	52.0	2.05	52.0	0.512	13.0	0.100	2.54			

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

HSTTRA Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Semi-rigid tubing with an adhesive inner wall seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 2.5:1 Minimum
- Mil Spec: AMS-DTL-23053/4 Class 1**
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin
- UL: E342365
- 5 year shelf life***



Part Number	Nominal Diameter		Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	
HSTTRA12-48-Q	0.125	3.2	0.125	3.2	0.023	0.6	0.038	1.0	25
HSTTRA19-48-Q	0.187	4.8	0.187	4.8	0.060	1.5	0.043	1.1	
HSTTRA25-48-Q	0.250	6.4	0.250	6.4	0.080	2.0	0.047	1.2	
HSTTRA38-48-Q	0.375	9.5	0.375	9.5	0.135	3.4	0.050	1.3	
HSTTRA50-48-5	0.500	12.7	0.500	12.7	0.195	5.0	0.055	1.4	5
HSTTRA75-48-5	0.750	19.1	0.750	19.1	0.313	8.0	0.065	1.7	
HSTTRA100-48-5	1.00	25.4	1.00	25.4	0.400	10.2	0.075	1.9	

**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

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HST Thick Wall Polyolefin Heat Shrink

- Applications include insulating and protecting wires and cables
- Adhesive-lined inner wall seals and protects against moisture
- Thick wall suitable for direct burial according to UL 486D and provides excellent protection
- Voltage rating: UL 486D Listed for 600 V 90°C continuous use
- Shrink ratio: 3:1
- Flammability: Flame retardant outer wall meets UL 224 VW-1
- UL/UR: E342365
- UL Listed: E173379
- CSA 244528
- Mil Spec: AMS-DTL-23053/15**
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- Suitable for wet locations; Black HST suitable for outdoor, direct sunlight applications
- Material: Adhesive lined black and red cross-linked Polyolefin
- 10 year shelf life***



Part Number	Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Length		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			
HST0.4-3-QY*	0.40	10.2	0.16	4.1	0.08	2.0	3.0	76.2	Black	25	100
HST0.4-48-5-2Y*	0.40	10.2	0.16	4.1	0.08	2.0	48.0	1219.2	Red	5	20
HST0.4-48-5Y*	0.40	10.2	0.16	4.1	0.08	2.0	48.0	1219.2	Black		
HST0.4-6-X2Y*	0.40	10.2	0.16	4.1	0.08	2.0	6.0	152.4	Red	10	100
HST0.4-6-XY*	0.40	10.2	0.16	4.1	0.08	2.0	6.0	152.4	Black		
HST0.8-12-5Y*	0.75	19.1	0.22	5.6	0.09	2.3	12.0	304.8	Black	5	50
HST0.8-48-5-2Y*	0.75	19.1	0.22	5.6	0.09	2.3	48.0	1219.2	Red	5	20
HST0.8-48-5Y*	0.75	19.1	0.22	5.6	0.09	2.3	48.0	1219.2	Black		
HST0.8-6-XY*	0.75	19.1	0.22	5.6	0.09	2.3	6.0	152.4	Black	10	100
HST0.8-9-X2Y*	0.75	19.1	0.22	5.6	0.09	2.3	9.0	228.6	Red		
HST1.1-12-5Y	1.10	27.9	0.38	9.5	0.12	3.0	12.0	304.8	Black	5	50
HST1.1-48-5-2Y	1.10	27.9	0.38	9.5	0.12	3.0	48.0	1219.2	Red	5	20
HST1.1-48-5Y	1.10	27.9	0.38	9.5	0.12	3.0	48.0	1219.2	Black		
HST1.1-6-XY	1.10	27.9	0.38	9.5	0.12	3.0	6.0	152.4	Black	10	100
HST1.1-9-X2Y	1.10	27.9	0.38	9.5	0.12	3.0	9.0	228.6	Red	10	100
HST1.1-9-XY	1.10	27.9	0.38	9.5	0.12	3.0	9.0	228.6	Black	10	100
HST1.5-12-5Y	1.50	38.1	0.50	12.7	0.16	4.1	12.0	304.8	Black	5	50
HST1.5-48-5-2Y	1.50	38.1	0.50	12.7	0.16	4.1	48.0	1219.2	Red	5	15
HST1.5-48-5Y	1.50	38.1	0.50	12.7	0.16	4.1	48.0	1219.2	Black		
HST1.5-9-XY	1.50	38.1	0.50	12.7	0.16	4.1	9.0	228.6	Black	10	100
HST2.0-12-2Y	2.00	50.8	0.67	16.9	0.16	4.1	12.0	304.8	Black	2	20
HST2.0-48-2Y	2.00	50.8	0.67	16.9	0.16	4.1	48.0	1219.2		2	8
HST2.7-48-2Y	2.70	68.6	0.87	22.1	0.16	4.1	48.0	1219.2		2	8
The following parts are not UL listed, UL recognized or CSA certified.											
HST3.0-48-2	3.00	76.2	1.00	25.4	0.16	4.1	48.0	1219.2	Black	2	8
HST3.5-48-2Y	3.50	88.9	1.20	30.5	0.16	4.1	48.0	1219.2			6

*Product meets performance requirements of AMS-DTL-23053/15; some dimensions differ from specification.
**Material Performance Only.
***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

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Heat Shrink End Caps

- Applications include insulating and protecting wires and cables
- Adhesive lined inner wall seals and provides excellent protection against moisture
- Voltage rating of 600 V
- Shrink ratio: 2.5:1 (HSEC); 3:1 (HSECFR)
- Temperature range: HSEC: -40°F to 257°F (-40°C to 125°C) HSECFR: -67°F to 239°F (-55°C to 110°C)
- For wet locations
- Material: Adhesive lined black cross-linked Polyolefin; HSECFR = Flame retardant
- FR Material: UL E169922
- 10 year shelf life***



HSEC



HSECFR

WET SHRINK HEAT SHRINK

Part Number	Min. Expanded I.D.		Max. Recovered I.D.		Nominal Recovered Wall Thickness		Usable Cap Length		Std. Pkg. Qty.	Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
HSEC0.5-X	0.47	11.9	0.18	4.6	0.09	2.2	1.48	37.6	10	100
HSEC0.8-X	0.79	20.1	0.30	7.6	0.10	2.4	1.79	45.5		
HSEC1.0-X	1.15	29.2	0.45	11.4	0.11	2.8	2.80	71.1		
HSEC1.5-5	1.58	40.1	0.68	17.3	0.14	3.6	3.23	82.0	5	50
HSEC2.0-5	2.25	57.2	0.98	24.9	0.15	3.8	4.29	109.0		
HSEC4.0-2	3.92	99.6	1.78	45.2	0.15	3.8	5.37	136.4	2	10
Heat Shrink End Caps – Flame Retardant										
HSECFR0.5-XY	0.51	13.0	0.16	4.1	0.09	2.3	2.50	63.5	10	100
HSECFR0.8-XY	0.75	19.1	0.24	6.1	0.09	2.3	2.50	63.5		
HSECFR1.0-XY	1.10	27.9	0.35	8.9	0.12	3.0	3.00	76.2		
HSECFR1.5-5Y	1.50	38.1	0.47	11.9	0.16	4.1	3.50	88.9	5	50
HSECFR2.0-5Y	2.00	50.8	0.63	16.0	0.16	4.1	3.50	88.9		

***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Plastic Heat Shrink Tubing Kit Boxes – For Dry Locations

- 5 year shelf life***



Part Number	Part Description	Contents	Std. Pkg. Qty.
KP-HSTT1	Heat shrink kit box – plastic case, various sizes. Black only.	35 ea. of 3/32",1/8" 21 ea. of 3/16",1/4" 7 ea. of 3/8",1/2"	1
KP-HSTT2	Heat shrink kit box – plastic case, various sizes, various colors.	35 ea. (5 ea. color) 3/32",1/8" 21 ea. (3 ea. color) 3/16",1/4" 7 ea. (1 ea. color) 3/8", 1/2"	
KP-HSTTA	Dual Wall Adhesive Lined Thin Wall Heat Shrink: Plastic Kit Box – Black only.	14 ea. 3/16" 12 ea. 1/4" 10 ea. 3/8" 6 ea. 1/2" 3 ea. 3/4" 2 ea. 1"	

***Shelf life applies only to expanded and recovered dimensions. Material performance is not affected.

Heat Shrink Tools and Accessories



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
HSG-115V-650	Heat gun with stand. Temperature range of 700°F (371°C) to 1000°F (538°C) plus stand. (Accessories not included).	1	—
HSG-A1	Shrink tube reflector for tubing up to 3/4" inside diameter. Directs heat around tubing to reduce shrink time.	1	10
HSG-A2	Shrink tube reflector for tubing up to 1 1/2" inside diameter. Directs heat around tubing to reduce shrink time.		
HSG-P1	Replacement brush / spring kit.	1	5
HSG-P2	Replacement switch 20 Amp.		
HSG-P3	Replacement bearing kit.		
HSG-P7	Replacement heat element 700°F.	1	—

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Heat Shrink Installation Instructions

General Instructions

Position heat shrink over the object to be covered. Using a heat gun, soft yellow flame torch, infrared heat source or oven, evenly heat the tubing until it has fully recovered and conforms to the object. Use caution not to char or burn the tubing.

Special Instructions for HSTTT

TFE Heat Shrink is the most difficult to recover due to its high shrink temperature. TFE shrink tubing must be heated to the gel state 621°F (327°C) to completely recover. This can be recognized when the tubing changes from milky white to clear. Because of the unique characteristics of this material, a controlled temperature oven will achieve the most reliable results – it is difficult to consistently recover this product using a high-temp heat gun or similar heat source. These methods have a tendency to overheat the tube in one area while other areas remain cool.

When recovering onto objects, use a temperature controlled oven set at 660°F – 680°F (349°C – 360°C) for approximately 10 minutes is recommended. It is best to place the product on a fiberglass mat or suspend as opposed to contacting the oven rack. Do NOT heat the product above 700°F (371°C), or degradation damage to the TFE polymer will occur. The surrounding materials and the material you are shrinking onto must be capable of withstanding the shrink temperatures.

Size Selection for Heat Shrink Tubing

Generally, the largest tube that shrinks down tightly onto an object should be chosen. This allows the heat shrink tubing maximum stress relief and this will yield the longest service life and maximize abrasion resistance and electrical insulation.

Example:
A multi-conductor cable needs to be covered with HSTT Type Dry-Shrink™ Heat Shrink. The area to be covered has a measured outside diameter of 0.700" (17.8mm). The two possibilities are HSTT75-48-5 and HSTT100-48-5.

Part Number	Expander I.D. In. (mm)	Recovered I.D. In. (mm)
HSTT75-48-5	0.750 (19.1)	0.375 (9.5)
HSTT100-48-5	1.00 (25.4)	0.500 (12.7)

The proper choice is HSTT100-48-5 since the tube will recover more than HSTT75-48-5. The HSTT75-48-5 will fit over the 0.700 inch (17.8mm) outside diameter; however, this is not the proper choice since it is smaller than the HSTT100-48-5. In general, heat shrink should recover at least 10% – 20%.

Order number of pieces required, in multiples of Standard Package Quantity.

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Notes

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Notes

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Recommended Tubing Size for Common Wire Types Based on Location

For Insulated Wire, Non-Insulated Wire, and Insulated Wire with Copper Connectors

Instructions for Tube Selection:

1) Determine location type.

LOCATION:

DRY: A location not normally subject to dampness or wetness. A location classified as dry may be temporarily subject to dampness or wetness, as in the case of a building under construction.

DAMP: Partially protected locations under canopies, marquees, roofed open porches and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, barns, and cold-storage warehouses.

WET: Installations underground or in concrete slabs or masonry in direct contact with the earth, and locations subject to saturation with water or other liquids, such as vehicle washing areas, and locations exposed to weather and unprotected.

2) Match wire size to location type under required application – insulated wire, non-insulated wire, or insulated wire with copper connectors.

3) Read corresponding part number.

4) Part numbers with "-Y" are packages containing 6 inch pieces. Part numbers with "-48" are 48 inch pieces.

5) Part numbers shown below are for black heat shrink.

Wire Size	Insulated Wire with Copper Connector			Uninsulated Wire		
	Dry-Shrink™	Damp-Shrink™	Wet-Shrink™	Dry-Shrink™	Damp-Shrink™	Wet-Shrink™
24	HSTT09-Y	HSTTA19-Y	—	—	—	—
22	HSTT09-Y	HSTTA19-Y	—	HSTT05-Y	—	—
20	HSTT12-Y	HSTTA19-Y	—	HSTT05-Y	—	—
18	HSTT12-Y	HSTTA19-Y	—	HSTT06-Y	—	—
16	HSTT19-Y	HSTTA25-Y	—	HSTT09-Y	—	—
14	HSTT19-Y	HSTTA25-Y	—	HSTT09-Y	HSTTA19-Y	—
12	HSTT25-Y	HSTTA38-Y	—	HSTT012-Y	HSTTA19-Y	—
10	HSTT25-Y	HSTTA38-Y	HST0.4-48-5Y	HSTT19-Y	HSTTA25-Y	—
8	HSTT38-Y	HSTTA50-Y	HST0.4-48-5Y	HSTT19-Y	HSTTA25-Y	—
6	HSTT50-Y	HSTTA50-Y	HST0.8-48-5Y	HSTT25-Y	HSTTA38-Y	HST0.4-48-5Y
4	HSTT50-Y	HSTTA75-Y	HST0.8-48-5Y	HSTT38-Y	HSTTA50-Y	HST0.4-48-5Y
3	HSTT50-Y	HSTTA75-Y	HST0.8-48-5Y	HSTT38-Y	HSTTA50-Y	HST0.4-48-5Y
2	HSTT75-Y	HSTTA100-Y	HST1.1-48-5Y	HSTT38-Y	HSTTA50-Y	HST0.8-48-5Y
1	HSTT75-Y	HSTTA100-Y	HST1.1-48-5Y	HSTT50-Y	HSTTA75-Y	HST0.8-48-5Y
1/0	HSTT75-Y	HSTTA100-Y	HST1.1-48-5Y	HSTT50-Y	HSTTA75-Y	HST0.8-48-5Y
2/0	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y	HSTT50-Y	HSTTA100-Y	HST0.8-48-5Y
3/0	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y	HSTT75-Y	HSTTA100-Y	HST1.1-48-5Y
4/0	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y	HSTT75-Y	HSTTA100-Y	HST1.1-48-5Y
250	HSTT100-Y	HSTTA150-Y	HST2.0-48-2Y	HSTT100-Y	HSTTA100-Y	HST1.1-48-5Y
300	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y
350	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y
400	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y
500	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT100-Y	HSTTA150-Y	HST1.5-48-5Y
600	HSTT200-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
700	HSTT200-48-5	HSTTA150-Y	HST2.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
750	HSTT200-48-5	HSTTA150-Y	HST3.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
800	HSTT200-48-5	HSTTA150-Y	HST3.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
900	HSTT200-48-5	—	HST3.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
1000	HSTT200-48-5	—	HST3.0-48-2Y	HSTT150-48-5	HSTTA150-Y	HST2.0-48-2Y
1250	HSTT200-48-2	—	HST3.0-48-2Y	HSTT200-48-5	HSTTA150-Y	HST2.0-48-2Y
1500	HSTT300-48-2	—	HST3.0-48-2Y	HSTT200-48-5	—	HST2.0-48-2Y
1750	HSTT300-48-2	—	HST3.0-48-2Y	HSTT200-48-5	—	HST2.0-48-2Y
2000	HSTT300-48-2	—	HST3.0-48-2Y	HSTT200-48-5	—	HST2.0-48-2Y

Sizing information is based on the following wire types: MTW, THHN, THWN, TFN, THW, TW, TF, RHW, RH, RHH and UL 1015.
THHN is the most common wire type.
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Notes

Order number of pieces required, in multiples of Standard Package Quantity.

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Cable Management

Panduit® offers a complete line of cable management products and accessories to route and secure cable. These products are an essential part of a clean, professional installation, which help improve quality and increase system performance.

- **Maintains bend radius control and cable performance while bundling and securing cable to prevent snags and stress from over bending**
- **Allows for easier moves, adds, and changes while reducing stress on cable**
- **Organizes cable in a variety of applications where depth is critical or space is limited**

Panduit solutions provide the options necessary to handle the most demanding installations while providing the flexibility to facilitate system upgrades now and in the future.

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J-Pro™ Cable Support System

PATENTED

- Patented design provides complete horizontal and vertical 1" (25.4mm) bend radius control that helps prevent degradation of cable performance
- UL 2043 and CAN/ULC S102.2 listed and suitable for use in air handling spaces
- Pre-riveted assemblies allow for attachment to walls, ceilings, beams, threaded rods, drop wires and underfloor supports to meet requirements of a variety of applications
- Wide cable support base prevents pinch points that could cause damage to cables
- Cable tie channel allows user to easily install 3/4" Tak-Ty® Cable Ties to retain cable bundle
- Durable non-metallic J Hook materials provide the ability to manage and support a large number of cables
- Standard product is black. For color options see page C4.4



JP2W-L20



JP2WP2B-L20



JP2CMB-L20



JP2DW-L20



JP2SBC50-L20



JP2SBC50RB-L20

Part Number*	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Std. Pkg. Qty.
		In.	mm	Cat. 6A (0.30")	Cat. 6 (0.24")	Cat. 5e (0.23")	
Wall Mount							
JP75W-L20	J Hook for wall mount applications. One 1/4" (M6) mounting hole for user supplied screw.	0.75	19.0	5	8	10	50
JP131W-L20		1.31	33.3	15	25	29	
JP2W-L20		2.00	50.8	30	46	55	
JP4W-X20		4.00	101.6	115	180	200	10
Wall Mount with Bracket							
JP75WP2B-L20	J Hook for powder actuated installation on walls. One 5/32" (M4) mounting hole for user supplied fasteners.	0.75	19.0	5	8	10	50
JP131WP2B-L20		1.31	33.3	15	25	29	
JP2WP2B-L20		2.00	50.8	30	46	55	
JP4WP2B-X20		4.00	101.6	115	180	200	10
Ceiling Mount							
JP75CMB-L20	J Hook with ceiling mount bracket that has one 3/16" (M5), 1/4" (M6), and 3/8" (M10) mounting hole.	0.75	19.0	5	8	10	50
JP131CMB-L20		1.31	33.3	15	25	29	
JP2CMB-L20		2.00	50.8	30	46	55	
JP4CMB-X20		4.00	101.6	115	180	200	10
Drop Wire and Threaded Rod Clip							
JP75DW-L20	J Hook with clip for use with #12 wire, threaded rod up to 1/4" (6.4mm) in diameter, or 1/8" – 1/4" (3.2mm – 6.4mm) thick flanges.	0.75	19.0	5	8	10	50
JP131DW-L20		1.31	33.3	15	25	29	
JP2DW-L20		2.00	50.8	30	46	55	
JP4DW-L20		4.00	101.6	115	180	200	10
Screw-On Beam Clamps							
JP75SBC50-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick.	0.75	19.0	5	8	10	50
JP131SBC50-L20		1.31	33.3	15	25	29	
JP2SBC50-L20		2.00	50.8	30	46	55	
JP4SBC50-X20		4.00	101.6	115	180	200	10
JP75SBC50RB-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	50
JP131SBC50RBL20		1.31	33.3	15	25	29	
JP2SBC50RB-L20		2.00	50.8	30	46	55	
JP4SBC50RB-X20		4.00	101.6	115	180	200	10

*Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30)

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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J-Pro™ Cable Support System (continued)



JP2SBC87-L20



JP2SBC87RB-L20



JP2HBC25RB-L20
JP2HBC50RB-L20
JP2HBC75RB-L20



JP2ZP-L20



JP2CP-L20



JP2UF100-L20

Part Number*	Part Description	Max. Bundle Capacity In.	Max. Bundle Capacity mm	Max. Cable Capacity Cat. 6A (0.30")	Max. Cable Capacity Cat. 6 (0.24")	Max. Cable Capacity Cat. 5e (0.23")	Std. Pkg. Qty.
Screw-On Beam Clamps							
JP75SBC87-L20	J Hook with screw-on beam clamp for use with flanges up to 3/4" (19.1mm) thick. Non-rotating mount.	0.75	19.0	5	8	10	50
JP131SBC87-L20		1.31	33.3	15	25	29	
JP2SBC87-L20		2.00	50.8	30	46	55	
JP4SBC87-X20		4.00	101.6	115	180	280	10
JP75SBC87RB-L20	J Hook with screw-on beam clamp for use with flanges up to 3/4" (19.1mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	50
JP131SBC87RBL20		1.31	33.3	15	25	29	
JP2SBC87RB-L20		2.00	50.8	30	46	55	
JP4SBC87RB-X20		4.00	101.6	115	180	200	10
Hammer-On Beam Clamps							
JP75HBC25RB-L20	J Hook with hammer-on beam clamp for use with flanges 1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	50
JP131HBC25RBL20		1.31	33.3	15	25	29	
JP2HBC25RB-L20		2.00	50.8	30	46	55	
JP4SBC50RB-X20		4.00	101.6	115	180	200	10
JP75HBC50RB-L20	J Hook with hammer-on beam clamp for use with flanges 5/16" – 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	50
JP131HBC50RBL20		1.31	33.3	15	25	29	
JP2HBC50RB-L20		2.00	50.8	30	46	55	
JP4HBC50RB-X20		4.00	101.6	115	180	200	10
JP75HBC75RB-L20	J Hook with hammer-on beam clamp for use with flanges 9/16" – 3/4" (14.3mm – 19.1mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	50
JP131HBC75RBL20		1.31	33.3	15	25	29	
JP2HBC75RB-L20		2.00	50.8	30	46	55	
JP4HBC75RB-X20		4.00	101.6	115	180	200	10
Z-Purlin Clips							
JP75ZP-L20	J Hook with z-purlin clip for use with angled flanges up to 1/4" (6.4mm) thick.	0.75	19.0	5	8	10	50
JP131ZP-L20		1.31	33.3	15	25	29	
JP2ZP-L20		2.00	50.8	30	46	55	
JP4ZP-X20		4.00	101.6	115	180	200	10
C-Purlin Clips							
JP75CP-L20	J Hook with c-purlin clip for use with vertical flanges up to 1/4" (6.4mm) thick.	0.75	19.0	5	8	10	50
JP131CP-L20		1.31	33.3	15	25	29	
JP2CP-L20		2.00	50.8	30	46	55	
JP4CP-X20		4.00	101.6	115	180	200	10
Underfloor Pedestal Support Clamp							
JP75UF100-L20	J Hook with underfloor clamp for use with pedestal support 7/8" square or 1 1/8" – 1 3/8" in diameter.	0.75	19.0	5	8	10	50
JP131UF100-L20		1.31	33.3	15	25	29	
JP2UF100-L20		2.00	50.8	30	46	55	
JP4UF100-X20		4.00	101.6	115	180	200	10

*Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30)

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Color Selection Guide

Base Part Number	Black	Red	Blue	White	Green	Orange
JP75W	-L20	-L2			-L5	-L3
JP75WP2B	-L20					
JP75CMB	-L20	-L2				
JP75DW	-L20	-L2	-L6			
JP75ZP	-L20					
JP75CP	-L20					
JP75SBC50	-L20					
JP75SBC87	-L20					
JP75SBC50RB	-L20	-L2		-L		
JP75SBC87RB	-L20					
JP75HBC25RB	-L20					
JP75HBC50RB	-L20	-L2		-L		
JP75HBC75RB	-L20					
JP75UF100	-L20					
JP131W	-L20	-L2	-L6		-L5	-L3
JP131WP2B	-L20					
JP131CMB	-L20					
JP131DW	-L20		-L6			
JP131ZP	-L20					
JP131CP	-L20					
JP131SBC50	-L20					
JP131SBC87	-L20					
JP131SBC50RB	-L20	-L2		-L		
JP131SBC87RB	-L20					
JP131HBC25RB	-L20					
JP131HBC50RB	-L20	-L2		-L		
JP131HBC75RB	-L20					
JP131UF100	-L20					
JP2W	-L20	-L2	-L6	-L	-L5	-L3
JP2WP2B	-L20					
JP2CMB	-L20	-L2	-L6			
JP2DW	-L20	-L2	-L6	-L		
JP2ZP	-L20					
JP2CP	-L20					
JP2SBC50	-L20			-L		
JP2SBC87	-L20			-L		
JP2SBC50RB	-L20	-L2		-L		
JP2SBC87RB	-L20	-L2				
JP2HBC25RB	-L20					
JP2HBC50RB	-L20	-L2		-L		
JP2HBC75RB	-L20					
JP2UF100	-L20					
JP4W	-X20	-X2	-X6	-X		
JP4WP2B	-X20					
JP4CMB	-X20			-X6		
JP4ZP	-X20					
JP4CP	-X20					
JP4SBC50	-X20			-X		
JP4SBC87	-X20					
JP4SBC50RB	-X20	-X2		-X		
JP4SBC87RB	-X20					
JP4HBC25RB	-X20					
JP4HBC50RB	-X20	-X2		-X		
JP4HBC75RB	-X20					
JP4UF100	-X20					

Other colors available. Please refer to www.panduit.com.

Order number of pieces required, in multiples of Standard Package Quantity.

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J-Mod® Cable Support System

- Modular design allows flexibility to assemble system in multiple configurations
- Unique chaining bracket design creates a strong metal backbone and allows expansion of the system without disturbance of an existing installation
- Brackets allow for attachment to ceilings, beams, threaded rods and drop wires to meet requirements of a variety of applications
- Manufactured from materials that meet UL 2043 and are suitable for use in air handling spaces
- Complete horizontal and vertical 1" bend radius control
- Cables do not come in contact with metal


JMJH2W-X20


JMJH2-X20


JMCB-X


JMCMB25-1-X


JMCMB25-3-X


JMDWB-1-X


JMDWB-3-X


JMTRB38-1-X

Part Number	Part Description	Material	Std. Pkg. Qty.	Std. Ctn. Qty
J Hook with Maximum 2" Bundle Capacity				
JMJH2W-X20*	J Hook for wall mount applications only. Two 1/4" (M6) mounting holes for user supplied screws.	Nylon 6.6	10	50
JMJH2-X20*	J Hook with snap lock attachments for use with all brackets listed below.			
Chaining Bracket				
JMCB-X	Chaining bracket to extend J-Mod® capacity one level. Capacity: three levels maximum. For use with all single-level mounting brackets listed below.	Zinc Plated Steel	10	50
Ceiling Mount Brackets				
JMCMB25-1-X	Single-level ceiling mount bracket with one 1/4" (M6) mounting hole.	Nylon 6.6	10	50
JMCMB25-3-X**	Three-level ceiling mount bracket with one 1/4" (M6) mounting hole. Maximum capacity of six J Hooks.			
Drop Wire Brackets				
JMDWB-1-X	Single-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook per level.	Galvanized Steel with Metal Attachments	10	50
JMDWB-3-X**	Three-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook for each of three levels. Maximum static load of 40 pounds.			
Threaded Rod Brackets				
JMTRB38-1-X	Single-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod.	Galvanized Steel with Metal Attachments	10	50
JMTRB38-3-X**	Three-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod. Maximum capacity of six J Hooks.			

*Suitable for use in air handling spaces and listed in accordance with UL 2043 and CAN/ULC S102.2 when mounted as single units or in pairs. Maximum spacing of 4' (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 30)
**Not for use with chaining brackets.

Continued on next page

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J-Mod® Cable Support System (continued)



JMTRB38-3-X



JMSBCB87-1-X



JMSBCB87-3-X

Part Number	Part Description	Material	Std. Pkg. Qty.	Std. Ctn. Qty
Screw-On Beam Clamp Brackets				
JMSBCB87-1-X	Single-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick.	Galvanized Steel with Metal Attachments	10	50
JMSBCB87-3-X**	Three-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick. Maximum capacity of six J Hooks.			

*Suitable for use in air handling spaces and listed in accordance with UL 2043 and CAN/ULC S102.2 when mounted as single units or in pairs. Maximum spacing of 4' (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 30)
**Not for use with chaining brackets.

	Max. Cable Capacity		
	Cat. 6A (0.310")	Cat. 6 (0.236")	Cat. 5e (0.193")
JMJH2W or JMJH2	30	50	70

Bridle Rings and Fastening Clip

- Multiple diameters, thread sizes, and configurations
- Threaded and non-threaded sizes are compatible with spring steel clip (BR-MPCL) clamp providing a solid securing point for the bridle ring
- Other unique labor saving assemblies differentiate from competition – including pre-assemblies with powder actuated fasteners, toggle wings, and clearance holes for user supplied fasteners



Non-Threaded #8 Wire



Threaded



Wood Screw Thread



Power Actuated Fastener



User Supplied Nail or Fastener



Integrated Toggle Screw

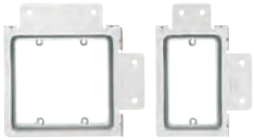
Part Number	Part Description	Std. Pkg. Qty.
J Hook with Maximum 2" Bundle Capacity		
BR-2.0	Bridle ring, 2.00" dia., non-threaded #8 wire (.162).	100
BR-.50-10-24	Bridle ring, 0.50" dia., 10 – 24 threaded.	
BR-.75-10-24	Bridle ring, 0.75" dia., 10 – 24 threaded.	
BR-1.25-10-24	Bridle ring, 1.25" dia., 10 – 24 threaded.	
BR-2.0-10-24	Bridle ring, 2.00" dia., 10 – 24 threaded.	
BR-1.25-1/4-20	Bridle ring, 1.25" dia., 1/4 – 20 threaded.	
BR-2.0-1/4-20	Bridle ring, 2.00" dia., 1/4 – 20 threaded.	
BR-4.0-1/4-20	Bridle ring, 4.00" dia., 1/4 – 20 threaded.	50
BR-1.25-14WS	Bridle ring, 1.25" dia., 16 wood screw thread.	100
BR-2.0-14WS	Bridle ring, 2.00" dia., 16 wood screw thread.	
BR-1.5-PAF	Bridle ring, 1.50" dia., with powder actuated fastener.	50
BR-2.0-PAF	Bridle ring, 2.00" (50.8mm) dia., with powder actuated fastener.	
BR-1.5-SN	Bridle ring, 1.50" dia., user supplied nail or fastener.	100
BR-2.0-SN	Bridle ring, 2.00" dia., user supplied nail or fastener.	
BR-1.5-TW	Bridle ring, 1.50" dia., with integrated toggle screw.	25
BR-2.0-TW	Bridle ring, 2.00" dia., with integrated toggle screw.	

Order number of pieces required, in multiples of Standard Package Quantity.

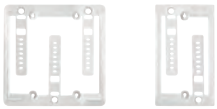
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Low Voltage Mounting Brackets

- Choose design styles for new install or retrofit install
- Available in both single and double gang configurations



New Install

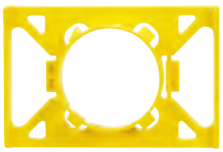


Retrofit Install

Part Number	Part Description	Std. Pkg. Qty.
LV-S-1G	Low voltage integral mounting bracket for new installations, single gang stud bracket.	25
LV-S-2G	Low voltage integral mounting bracket for new installations, double gang stud bracket.	25
LV-W-1G	Low voltage mounting bracket for retrofit installations; single gang box with screws; suitable for wall material thicknesses of 1/2" to 1 1/2".	100
LV-W-2G	Low voltage mounting bracket for retrofit installations; double gang box with screws; suitable for wall material thicknesses of 1/2" to 1 1/2".	50

Metal Stud Accessories

- Metal stud grommets and cable support manager support and protect cable within the building structure
- Metal Stud Punching Tool punches a 1-11/32" (34.1mm) round hole in 25 GA. min. to 20 GA max. mild steel studs; contoured handle; lightweight aluminum head; automatic hole centering on standard width (3.625") studs; replaceable punch and dies; self-stripping design that eliminates or reduces punch hang-ups



MSG-1.3-C



MSGV-1.3-C



CSM-1.25-C



MSPT-1.3

Part Number*	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty
MSG-1.3-C	Metal stud grommet, 1-11/32" hole.	100	1000
MSGV-1.3-C	Metal stud grommet, 1-11/32" hole, anti-vibration for 1/2" to 1" pipe.		
CSM-1.25-C	Cable stud manager for 1.25" cable spacing.		
MSPT-1.3	Metal stud punch tool with contoured handle for increased leverage.	1	—

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Notes

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Terminals

Panduit® Pan-Term® Terminals are designed and manufactured for fast assembly, and reliable performance. Panduit provides an extensive line of tooling designed specifically to provide optimum performance. As the demand for loose piece terminals increases, it becomes essential to provide a complete system for termination products.

- **Funnel entry available on vinyl and nylon insulated terminals and disconnects, speeds insertion, and minimizes turned back wire strands**
- **Made of electrolytic copper to provide an optimum combination of crimp forming and high conductivity properties to provide superior terminations**
- **Available in sizes from #26 – 2 AWG and stud hole diameters from #2 – 1/2 inch; non-insulated tubular terminals sizes from #8 – 250 kcmil**
- **Applicable sizes are UL Listed and CSA Certified, RoHS compliant, ABS (American Bureau of Shipping) Approved, DFARS 252.225-7014 Compliant and meet Military Specifications MS25036 and MS20659 as noted**
- **Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools for reliable connections at the lowest installed cost**
- **Standard pack terminals are now offered in a new ergonomic, reusable, clear plastic bottle with color-coded flip top lids for easy product selection, dispensing and size identification**
- **Convenience Packs offer premium terminal products in a clear, resealable, 20 piece package, designed for quick product selection and identification**

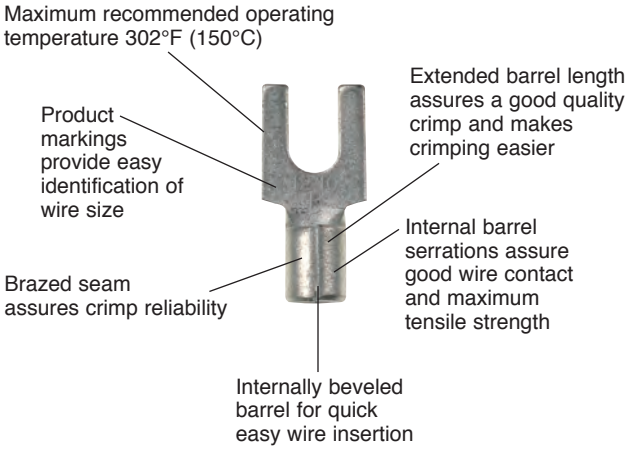
Panduit continually provides new designs to meet the application challenges encountered by our customers. Panduit offers a wide assortment of Pan-Term® termination products to meet customer needs at the lowest installed cost.

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Features and Benefits – Pan-Term® Terminals

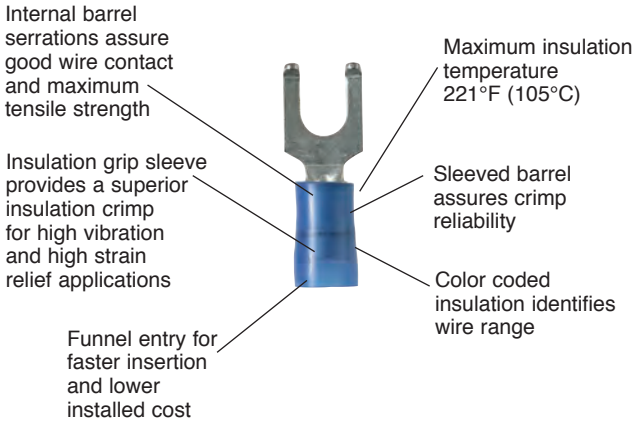
All Panduit® terminals feature high quality materials made with electrolytic copper for high conductivity and are tin-plated for corrosion resistance.

Non-Insulated Terminals Type P



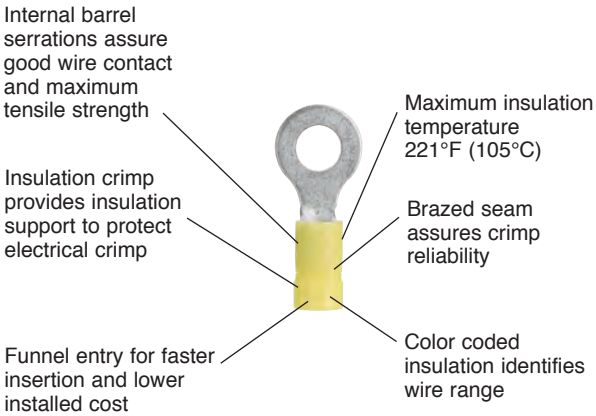
UL and CSA rated up to 2000 V per UL 486A/B. Nickel plated terminals rated up to 650°F (343°C) maximum operating temperature.

Nylon Insulated Terminals with Insulation Grip Sleeve Type PN or PNF



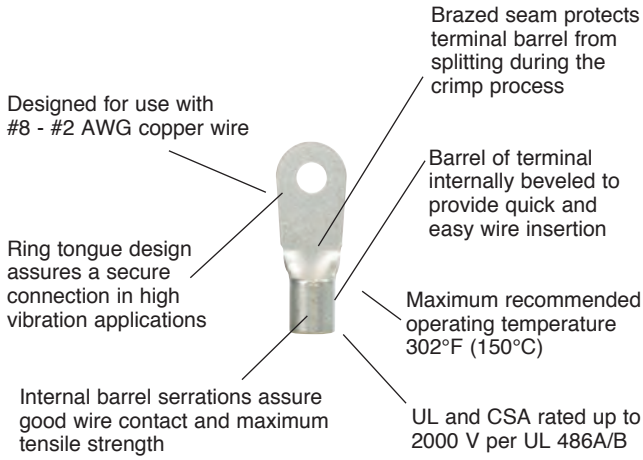
UL and CSA rated up to 600 V per UL 486A/B. Flammability – UL 94 HB.

Vinyl Insulated Terminals With Insulation Support Type PV



UL and CSA rated up to 600 V per UL 486A/B. Flammability – UL 94V-0.

Ring Terminal, Large Wire Non-Insulated Type P-R



UL and CSA rated up to 2000 V per UL 486A/B.



Panduit designs and manufactures a full line of labeling products, software and printers to assist you with your labeling requirements.

See pages E1.1 – E2.29.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Selection Guide – Pan-Term® Ring Terminals

Ring Terminals



Insulation Material	Style	Feature	Type	Page Number
Nylon	Standard Ring	Insulation Grip	PN-R	D1.6
		Funnel Entry	PNF-R	D1.7
		Expanded Insulation	PN-RX	D1.8
		Heavy Duty	PN-HDR	D1.12
Vinyl	Standard Ring	Insulation Support	PV-R	D1.9
		Expanded Insulation	PV-RX	D1.10
		Heavy Duty	PV-HDR	D1.13
		Large Wire, Insulation Support	PV-R/X	D1.14
		Expanded Insulation, Insulation Support	PV-RX	D1.15
Heat Shrink	Standard Ring	Heat Shrink Insulation	PH-R	D1.12
KYNAR■ Insulated	Standard Ring	Insulation Grip	PK-R	D1.11
Non-Insulated	Standard Ring	Brazed Seam	P-R	D1.16
		High Temp, Brazed Seam	P-RHT	D1.17
		Heavy Duty	P-HDR	D1.18
		Large Wire	P-R	D1.18

■ KYNAR is a registered trademark of Atofina Chemicals, Inc.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Selection Guide – Pan-Term® Fork Terminals

Fork Terminals



Material	Style	Feature	Type	Page Number
Nylon	Standard Fork	Insulation Grip	PN-F	D1.20
		Funnel Entry	PNF-F	D1.21
	Locking Fork	Insulation Grip	PN-LF	D1.23
		Funnel Entry	PNF-LF	D1.24
	Flanged Fork	Insulation Grip	PN-FF	D1.26
Vinyl	Standard Fork	Insulation Support	PV-F	D1.22
		Expanded Insulation	PV-FX	D1.23
	Locking Fork	Funnel Entry	PV-LF	D1.24
		Expanded Insulation Insulation Support	PV-LFX	D1.25
	Flanged Fork	Funnel Entry	PV-FF	D1.26
Non-Insulated	Standard Fork	Brazed Seam	P-F	D1.27
	Flanged Fork	Brazed Seam	P-FF	D1.28
	Locking Fork	Brazed Seam	P-LF	D1.28

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number System for Pan-Term® Terminals

P	N	14	—	4	R	X	—	C
Type	**Insulation**	**Wire Range**		**Stud Size**	**Tongue Configuration**	**Special Configuration**		**Std. Pkg. Size**
P = Seamed Barrel	H = Heat Shrink	22 = #26 – 22		2 = #2	HDR = Heavy Duty Ring	HT6 = High Temperature		5 = 5
S = Seamless Tubular Barrel	K = KYNAR■ Insulated	18 = #22 – 18		4 = #4	F = Fork	N = Narrow Tongue		X = 10
	N = Nylon Insulated	14 = #16 – 14		5 = #5	FF = Flanged Fork	W = Wide Tongue		E = 20
	NF = Nylon Insulated Funnel Entry	12 = #16 – 12		6 = #6	LF = Locking Fork	X = Expanded Insulation		Q = 25
	V = Vinyl Insulated	10 = #12 – 10		8 = #8	R = Ring	= Non-Expanded Insulation (leave blank)		L = 50
	= Non-Ins. (leave blank)	8 = #8		10 = #10				C = 100
		6 = #6		14 = 1/4"				T = 200
		4 = #4		56 = 5/16"				D = 500
		2 = #2		38 = 3/8"				M = 1000
		1 = #1		76 = 7/16"				
		1/0 = 1/0		12 = 1/2"				
		2/0 = 2/0						
		3/0 = 3/0						
		4/0 = 4/0						
		250 = 250kcmil						

■ KYNAR is a registered trademark of Atofina Chemicals, Inc.

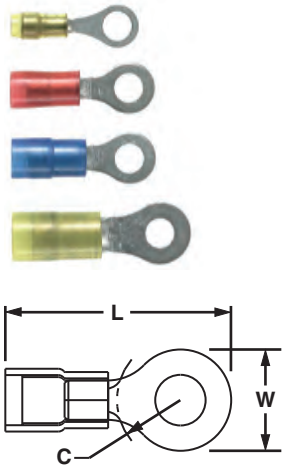
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Nylon Insulated

c UL us LISTED CSA CERTIFIED

Type PN-R

- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PN22-10R-C*	26 – 22 AWG	Yellow	0.02	0.090	#10	0.78	0.31	0.24	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	100	1000
PN18-4RN-C^	22 – 18 AWG	Red	0.03	0.145	#4	0.74	0.22	0.18	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN18-4R-C			0.03		#4	0.80	0.25	0.22			
PN18-6RN-C^			0.03		#6	0.77	0.22	0.18			
PN18-6R-C^			0.03		#6	0.80	0.25	0.22			
PN18-8R-C^			0.03		#8	0.86	0.31	0.25			
PN18-10R-C^			0.03		#10	0.88	0.31	0.25			
PN18-14R-C^			0.03		1/4"	1.09	0.45	0.38			
PN18-56R-C^			0.03		5/16"	1.09	0.46	0.38			
PN18-38R-C^			0.03		3/8"	1.17	0.53	0.43			
PN18-12R-L			0.03		1/2"	1.35	0.72	0.53		50	500
PN14-4R-C^	18 – 14 AWG	Blue	0.03	0.162	#4	0.78	0.25	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN14-6RN-C^			0.03		#6	0.76	0.25	0.20			
PN14-6R-C^			0.03		#6	0.85	0.31	0.25			
PN14-8R-C^			0.03		#8	0.85	0.31	0.25			
PN14-10R-C^			0.03		#10	0.85	0.31	0.25			
PN14-14R-C^			0.03		1/4"	1.05	0.46	0.38			
PN14-56R-C^			0.03		5/16"	1.05	0.46	0.38			
PN14-38R-L^			0.03		3/8"	1.14	0.53	0.43		50	500
PN14-12R-Q			0.03		1/2"	1.35	0.72	0.53		25	125
PN10-6R-L^	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.37	0.31	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN10-8R-L^			0.04		#8	1.06	0.37	0.31			
PN10-10R-L^			0.04		#10	1.06	0.38	0.31			
PN10-14R-L^			0.04		1/4"	1.21	0.52	0.38			
PN10-56R-L^			0.04		5/16"	1.21	0.52	0.38			
PN10-38R-L^			0.04		3/8"	1.29	0.58	0.43			
PN10-12R-Q			0.04		1/2"	1.47	0.72	0.53		25	125

*Wire sizes #26-22 AWG, are not UL Listed or CSA Certified.
**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
^For military specification cross reference see page D1.67.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

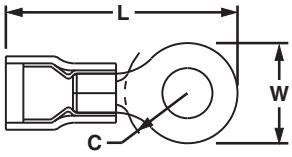
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Nylon Insulated – Funnel Entry

Type PNF-R

- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PNF18-4R-C	22 – 18 AWG	Red	0.03	0.136	#4	0.77	0.25	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF18-6RN-C^			0.03	0.136	#6	0.76	0.22	0.18			
PNF18-6R-C^			0.03	0.136	#6	0.77	0.25	0.20			
PNF18-8R-C^			0.03	0.136	#8	0.87	0.31	0.24			
PNF18-10R-C^			0.03	0.136	#10	0.87	0.32	0.25			
PNF18-14R-C^			0.03	0.136	1/4"	1.08	0.46	0.38			
PNF18-56R-C^			0.03	0.136	5/16"	1.08	0.46	0.39			
PNF18-38R-C^			0.03	0.136	3/8"	1.16	0.53	0.41			
PNF14-4R-C^	16 – 14 AWG	Blue	0.03	0.162	#4	0.78	0.25	0.18	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF14-6RN-C^			0.03	0.162	#6	0.78	0.25	0.18			
PNF14-6R-C^			0.03	0.162	#6	0.87	0.31	0.24			
PNF14-8R-C^			0.03	0.162	#8	0.87	0.31	0.25			
PNF14-10R-C^			0.03	0.162	#10	0.85	0.31	0.29			
PNF14-14R-C^			0.03	0.162	1/4"	1.06	0.46	0.40			
PNF14-56R-C^			0.03	0.162	5/16"	1.06	0.46	0.40			
PNF14-38R-L^			0.03	0.162	3/8"	1.14	0.53	0.45		50	500
PNF10-6R-L^	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.37	0.31	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PNF10-8R-L^			0.04	0.225	#8	1.06	0.37	0.31			
PNF10-10R-L^			0.04	0.225	#10	1.06	0.37	0.31			
PNF10-14R-L^			0.04	0.225	1/4"	1.21	0.52	0.38			
PNF10-56R-L^			0.04	0.225	5/16"	1.21	0.52	0.38			
PNF10-38R-L^			0.04	0.225	3/8"	1.29	0.58	0.43			

**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
^For military specification cross reference see page D1.67.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

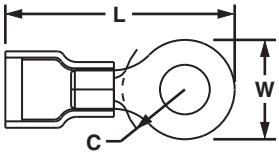
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Ring Terminal, Nylon Insulated – Expanded Insulation

Type PN-RX

- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.)			Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
						L	W	C			
PN14-6RX-C	16 – 14 AWG	Blue	0.03	0.200	#6	0.93	0.31	0.25	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN14-8RX-C			0.03	0.200	#8	0.93	0.31	0.25			
PN14-10RX-C			0.03	0.200	#10	0.93	0.31	0.25			
PN14-14RX-L			0.03	0.200	1/4"	1.13	0.46	0.38		50	500
PN10-6RX-L	12 – 10 AWG	Yellow	0.04	0.265	#6	1.13	0.37	0.33	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN10-8RX-L			0.04	0.265	#8	1.13	0.37	0.33			
PN10-10RX-L			0.04	0.265	#10	1.13	0.37	0.33			
PN10-14RX-L			0.04	0.265	1/4"	1.27	0.52	0.42			
PN10-56RX-L			0.04	0.265	5/16"	1.27	0.52	0.42			
PN10-38RX-L			0.04	0.265	3/8"	1.35	0.58	0.46			

**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

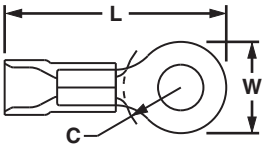
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Ring Terminal, Vinyl Insulated – Funnel Entry

Type PV-R

- Insulation support helps to prevent wire damage in bending applications
- Ring tongue design assures a secure connection in high vibration applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV22-2R-CY*	26 – 22 AWG	Yellow	0.02	0.110	#2	0.68	0.21	0.18	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	100	1000
PV22-4R-CY*			0.02	0.110	#4	0.68	0.21	0.18			
PV22-6R-CY*			0.02	0.110	#6	0.68	0.21	0.18			
PV22-8R-CY*			0.02	0.110	#8	0.78	0.26	0.26			
PV22-10R-CY*			0.02	0.110	#10	0.78	0.32	0.24			
PV18-4R-CY	22 – 18 AWG	Red	0.03	0.150	#4	0.84	0.25	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-6R-CY			0.03	0.150	#6	0.86	0.25	0.22			
PV18-8R-CY			0.03	0.150	#8	0.91	0.31	0.26			
PV18-10R-CY			0.03	0.150	#10	0.94	0.31	0.27			
PV18-14R-CY			0.03	0.150	1/4"	1.11	0.46	0.37			
PV18-56R-CY			0.03	0.150	5/16"	1.11	0.46	0.39			
PV18-38R-LY			0.03	0.150	3/8"	1.19	0.53	0.42		50	500
PV18-12R-LY			0.03	0.150	1/2"	1.42	0.72	0.53		50	500
PV14-4R-C	16 – 14 AWG	Blue	0.03	0.170	#4	0.84	0.25	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-6RN-C			0.03	0.170	#6	0.84	0.25	0.19			
PV14-6R-C			0.03	0.170	#6	0.92	0.31	0.25			
PV14-8R-C			0.03	0.170	#8	0.92	0.31	0.25			
PV14-10R-C			0.03	0.170	#10	0.92	0.31	0.25			
PV14-14R-C			0.03	0.170	1/4"	1.12	0.46	0.38			
PV14-56R-C			0.03	0.170	5/16"	1.12	0.46	0.38			
PV14-38R-L			0.03	0.170	3/8"	1.21	0.53	0.43		50	500
PV14-12R-L			0.03	0.170	1/2"	1.42	0.72	0.53		50	500
PV10-6R-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.05	0.31	0.31	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-8R-L			0.04	0.225	#8	1.05	0.31	0.31			
PV10-10R-L			0.04	0.225	#10	1.05	0.31	0.31			
PV10-14R-L			0.04	0.225	1/4"	1.23	0.52	0.38			
PV10-56R-L			0.04	0.225	5/16"	1.23	0.52	0.38			
PV10-38R-L			0.04	0.225	3/8"	1.31	0.58	0.41			
PV10-12R-Q			0.04	0.225	1/2"	1.46	0.72	0.53		25	250

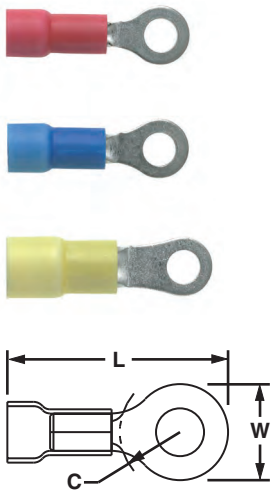
*Wire sizes #26 – 22 AWG, are not UL Listed or CSA Certified.
**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Vinyl Expanded Insulation

Type PV-RX

- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV18-4RX-CY	22 – 18 AWG	Red	0.03	0.170	#4	0.88	0.25	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-6RX-CY			0.03	0.170	#6	0.89	0.25	0.22			
PV18-8RX-CY			0.03	0.170	#8	0.97	0.31	0.27			
PV18-10RX-CY			0.03	0.170	#10	0.96	0.31	0.27			
PV18-14RX-CY			0.03	0.170	1/4"	1.17	0.46	0.40			
PV18-56RX-LY			0.03	0.170	5/16"	1.17	0.46	0.40		50	500
PV18-38RX-LY			0.03	0.170	3/8"	1.25	0.53	0.45		50	500
PV14-4RX-C	16 – 14 AWG	Blue	0.03	0.200	#4	0.87	0.25	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-6RX-C			0.03	0.200	#6	0.96	0.31	0.25			
PV14-8RX-C			0.03	0.200	#8	0.96	0.31	0.25			
PV14-10RX-C			0.03	0.200	#10	0.96	0.31	0.25			
PV14-14RX-L			0.03	0.200	1/4"	1.16	0.46	0.37		50	500
PV14-56RX-L			0.03	0.200	5/16"	1.16	0.46	0.37			
PV14-38RX-L			0.03	0.200	3/8"	1.25	0.53	0.42			
PV10-6RX-L	12 – 10 AWG	Yellow	0.04	0.250	#6	1.10	0.31	0.30	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-8RX-L			0.04	0.250	#8	1.10	0.31	0.30			
PV10-10RX-L			0.04	0.250	#10	1.10	0.31	0.30			
PV10-14RX-L			0.04	0.250	1/4"	1.29	0.52	0.39			
PV10-56RX-L			0.04	0.250	5/16"	1.29	0.52	0.42			
PV10-38RX-L			0.04	0.250	3/8"	1.39	0.58	0.46			

**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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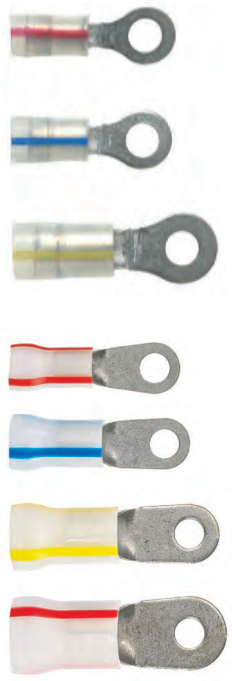
Ring Terminal, KYNAR■ Insulated

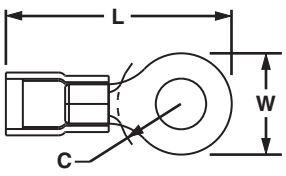
Type PK-R

- Color code: natural with appropriate color stripe to identify wire range
- Ring tongue design assures a secure connection in high vibration applications
- UL and CSA rated up to 600 V per UL 486A/B

Note: For PK18 – PK10 Terminals the following applies:

- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PK18-4R-C	22 – 16 AWG	Red Stripe	0.03	0.145	#4	0.80	0.25	0.22	CT-100A, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PK18-6R-C			0.03	0.145	#6	0.80	0.25	0.22			
PK18-8R-C			0.03	0.145	#8	0.89	0.31	0.29			
PK18-10R-C			0.03	0.145	#10	0.89	0.31	0.29			
PK18-14R-C			0.03	0.145	1/4"	1.10	0.46	0.40			
PK18-38R-C			0.03	0.145	3/8"	1.18	0.53	0.45			
PK14-4R-C	18 – 14 AWG	Blue Stripe	0.03	0.162	#4	0.78	0.25	0.22	CT-100A, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PK14-6R-C			0.03	0.162	#6	0.87	0.31	.029			
PK14-8R-C			0.03	0.162	#8	0.87	0.31	.029			
PK14-10R-C			0.03	0.162	#10	0.87	0.31	.029			
PK14-14R-C			0.03	0.162	1/4"	1.08	0.46	0.40			
PK14-38R-C			0.03	0.162	3/8"	1.15	0.53	0.43			
PK14-56R-C			0.03	0.162	5/16"	1.08	0.46	0.40			
PK10-6R-L	12 – 10 AWG	Yellow Stripe	0.04	0.225	#6	1.06	0.37	0.33	CT-100A, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PK10-8R-L			0.04	0.225	#8	1.06	0.37	0.33			
PK10-10R-L			0.04	0.225	#10	1.06	0.37	0.33			
PK10-14R-L			0.04	0.225	1/4"	1.25	0.38	0.42			
PK10-38R-Q			0.04	0.225	3/8"	1.34	0.58	0.42		25	125
Large Wire, KYNAR■ Insulated											
PK8-8R-T	8 AWG	Red Stripe	0.04	0.326	#8	1.50	0.42	0.43	CT-2600/L, CD-2600-PV8	200	1200
PK8-10R-T			0.04	0.326	#10	1.52	0.47	0.43			
PK8-14R-T			0.04	0.326	1/4"	1.52	0.47	0.43			
PK8-56R-T			0.04	0.326	5/16"	1.63	0.59	0.51			
PK8-38R-T			0.04	0.326	3/8"	1.63	0.59	0.51			
PK8-12R-T			0.04	0.326	1/2"	1.73	0.82	0.51			
PK6-8R-T	6 AWG	Blue Stripe	0.05	0.360	#8	1.59	0.47	0.43	CT-2600/L, CD-2600-PV6	200	1200
PK6-10R-T			0.05	0.360	#10	1.60	0.47	0.43			
PK6-14R-T			0.05	0.360	1/4"	1.63	0.47	0.48			
PK6-56R-T			0.05	0.360	5/16"	1.72	0.62	0.53			
PK6-38R-T			0.05	0.360	3/8"	1.72	0.62	0.51			
PK6-12R-T			0.05	0.360	1/2"	1.82	0.82	0.51			
PK4-10R-T	4 AWG	Yellow Stripe	0.05	0.450	#10	1.86	0.55	0.50	CT-2600/L, CD-2600-PV4	200	1200
PK4-14R-T			0.05	0.450	1/4"	1.86	0.55	0.50			
PK4-56R-T			0.05	0.450	5/16"	1.93	0.68	0.50			
PK4-38R-T			0.05	0.450	3/8"	1.93	0.68	0.50			
PK4-12R-T			0.05	0.450	1/2"	2.02	0.86	0.50			
PK2-14R-T	2 AWG	Red Stripe	0.06	0.550	1/4"	1.95	0.68	0.58	CT-2600/L, CD-2600-PV2	200	1200
PK2-56R-T			0.06	0.550	5/16"	1.95	0.68	0.58			
PK2-38R-T			0.06	0.550	3/8"	1.95	0.68	0.58			
PK2-12R-T			0.06	0.550	1/2"	2.04	0.68	0.58			

■KYNAR is a registered trademark of Atofina Chemicals, Inc.
‡UL approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

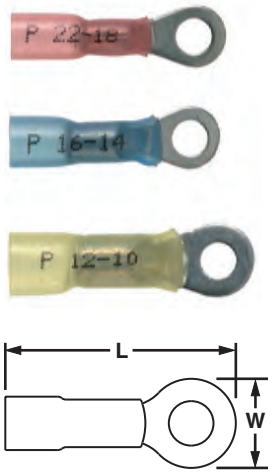
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Heat Shrink, Ring Terminal

LISTED CERTIFIED

Type PH-R

- Heat shrink sleeving forms a protective barrier to provide environmentally sealed terminations ideal for high moisture applications
- Ring tongue design assures a secure connection in high vibration applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Heat shrink installation is completed with a standard heat gun
- Minimum continuous operating temperature -65°F (-55°C)
- Maximum continuous operation temperature 230°F (110°C)
- Shrink temperature 300°F (150°C)
- UL and CSA rated up to 600 V per UL 486A/B



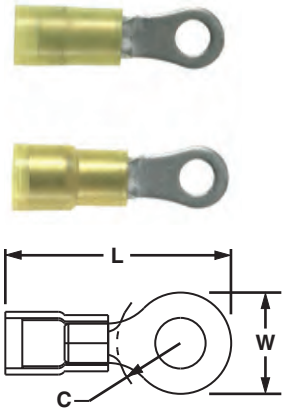
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	Figure Dimensions (In.) W	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
PH18-6R-Q	22 – 18 AWG	Red	0.170	#6	1.05	0.25	5/16	CT-310	25	125
PH18-8R-Q			0.170	#8	1.08	0.31				
PH18-10R-Q			0.170	#10	1.08	0.31				
PH18-14R-Q			0.170	1/4"	1.24	0.47				
PH14-6R-Q	16 – 14 AWG	Blue	0.200	#6	1.06	0.31				
PH14-8R-Q			0.200	#8	1.03	0.31				
PH14-10R-Q			0.200	#10	1.05	0.32				
PH14-14R-Q			0.200	1/4"	1.24	0.46				
PH14-56R-Q			0.200	5/16"	1.24	0.46				
PH14-38R-Q			0.200	3/8"	1.24	0.53				
PH10-8R-E	12 – 10 AWG	Yellow	0.240	#8	1.22	0.37	5/16	CT-310	20	100
PH10-10R-E			0.240	#10	1.20	0.37				
PH10-14R-E			0.240	1/4"	1.20	0.52				
PH10-38R-E			0.240	3/8"	1.20	0.59				
PH10-12R-E			0.240	1/2"	1.54	0.72				

Ring Terminal, Heavy Duty, Nylon Insulated

LISTED CERTIFIED

Type PN-HDR

- Manufactured from stock 56% thicker than a standard #16 – #14 AWG terminal for use in heavy-duty applications
- Insulation housing is marked with “HDR” to signify heavy-duty ring
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	Figure Dimensions (In.) W	Figure Dimensions (In.) C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PN12-8HDR-L	16 – 12 AWG	Yellow	0.05	0.225	#8	1.06	0.31	0.35	CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN12-10HDR-L			0.05	0.225	#10	1.09	0.37	0.33			
PN12-14HDR-L			0.05	0.225	1/4"	1.24	0.52	0.42			
PN12-56HDR-L			0.05	0.225	5/16"	1.24	0.52	0.42			
PN12-38HDR-L			0.05	0.225	3/8"	1.30	0.58	0.46			

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Heavy Duty, Vinyl Insulated – Funnel Entry

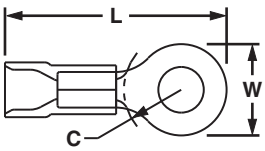
LISTED CERTIFIED

Type PV-HDR

- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy-duty applications
- Insulation housing is marked with “HDR” to signify heavy-duty ring
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B







Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
Standard Heavy Duty Insulation											
PV12-6HDR-L	16 – 12 AWG	Yellow	0.05	0.225	#6	1.05	0.31	0.35	UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV12-8HDR-L			0.05	0.225	#8	1.05	0.31	0.35			
PV12-10HDR-L			0.05	0.225	#10	1.08	0.37	0.33			
PV12-14HDR-L			0.05	0.225	1/4"	1.23	0.52	0.42			
PV12-56HDR-L			0.05	0.225	5/16"	1.23	0.52	0.42			
PV12-38HDR-L			0.05	0.225	3/8"	1.31	0.58	0.46			
Expanded Heavy Duty Insulation*											
PV12-6HDRX-L	16 – 12 AWG	Yellow	0.05	0.250	#6	1.05	0.31	0.35	UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV12-8HDRX-L			0.05	0.250	#8	1.05	0.31	0.35			
PV12-10HDRX-L			0.05	0.250	#10	1.08	0.37	0.33			
PV12-14HDRX-L			0.05	0.250	1/4"	1.23	0.52	0.42			
PV12-56HDRX-L			0.05	0.250	5/16"	1.23	0.52	0.42			
PV12-38HDRX-L			0.05	0.250	3/8"	1.31	0.58	0.46			

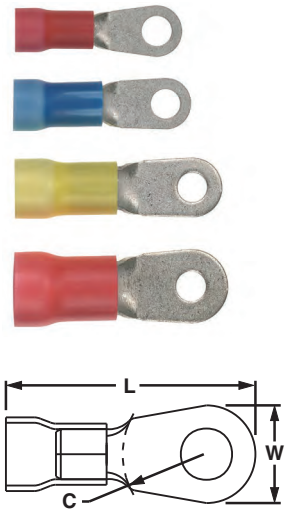
*Expanded insulation parts do not have funnel entry.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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Ring Terminal, Large Wire, Vinyl Insulated

Type PV-R

- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV8-8R-QY	8 AWG	Red	0.04	0.280	#8	1.51	0.42	0.43	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV8‡	25	250
PV8-8RN-Q			0.04	0.280	#8	1.48	0.36	0.43			
PV8-10R-QY			0.04	0.280	#10	1.53	0.47	0.43			
PV8-14R-QY			0.04	0.280	1/4"	1.53	0.47	0.43			
PV8-56R-QY			0.04	0.280	5/16"	1.64	0.59	0.49			
PV8-38R-QY			0.04	0.280	3/8"	1.64	0.59	0.51			
PV8-12R-XY			0.04	0.280	1/2"	1.74	0.82	0.51		10	100
PV6-8R-E	6 AWG	Blue	0.05	0.340	#8	1.61	0.47	0.43	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV6‡	20	200
PV6-10R-X			0.05	0.340	#10	1.62	0.47	0.43		10	100
PV6-14R-X			0.05	0.340	1/4"	1.65	0.47	0.48			
PV6-56R-X			0.05	0.340	5/16"	1.74	0.62	0.53			
PV6-38R-X			0.05	0.340	3/8"	1.74	0.62	0.51			
PV6-12R-X			0.05	0.340	1/2"	1.84	0.82	0.51			
PV4-10R-E	4 AWG	Yellow	0.05	0.450	#10	1.88	0.55	0.50	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV4‡	20	200
PV4-14R-E			0.05	0.450	1/4"	1.88	0.55	0.50			
PV4-56R-E			0.05	0.450	5/16"	1.95	0.68	0.50			
PV4-38R-E			0.05	0.450	3/8"	1.95	0.68	0.50			
PV4-12R-E			0.05	0.450	1/2"	2.04	0.86	0.50			
PV2-10R-XY	2 AWG	Red	0.06	0.560	#10	1.96	0.68	0.58	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV2‡	10	100
PV2-14R-XY			0.06	0.560	1/4"	1.96	0.68	0.58			
PV2-56R-XY			0.06	0.560	5/16"	1.96	0.68	0.58			
PV2-38R-XY			0.06	0.560	3/8"	1.96	0.68	0.58			
PV2-12R-XY			0.06	0.560	1/2"	2.05	0.86	0.58			

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

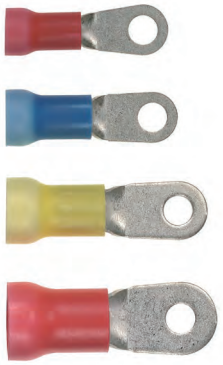
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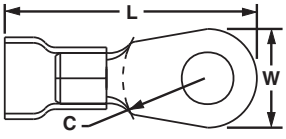
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Ring Terminal, Large Wire, Vinyl Expanded Insulation

Type PV-RX

- Ring tongue design assures a secure connection in high vibration applications
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.)			Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
						L	W	C			
PV8-8RX-QY	8 AWG	Red	0.04	0.360	#8	1.50	0.42	0.43	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV8‡	25	250
PV8-10RX-QY			0.04	0.360	#10	1.52	0.47	0.43			
PV8-14RX-QY			0.04	0.360	1/4"	1.52	0.47	0.43			
PV8-56RX-QY			0.04	0.360	5/16"	1.62	0.59	0.51			
PV8-38RX-QY			0.04	0.360	3/8"	1.62	0.59	0.51			
PV8-12RX-XY			0.04	0.360	1/2"	1.74	0.82	0.51		10	100
PV6-8RX-E	6 AWG	Blue	0.05	0.436	#8	1.61	0.47	0.43	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV6‡	20	200
PV6-10RX-X			0.05	0.436	#10	1.61	0.47	0.51		10	100
PV6-14RX-X			0.05	0.436	1/4"	1.61	0.47	0.51			
PV6-56RX-X			0.05	0.436	5/16"	1.73	0.62	0.51			
PV6-38RX-X			0.05	0.436	3/8"	1.73	0.62	0.53			
PV4-10RX-E	4 AWG	Yellow	0.05	0.515	#10	1.87	0.55	0.53	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV4‡	20	200
PV4-14RX-E			0.05	0.515	1/4"	1.87	0.55	0.53			
PV4-56RX-E			0.05	0.515	5/16"	1.94	0.68	0.53			
PV4-38RX-E			0.05	0.515	3/8"	1.94	0.68	0.53			
PV4-12RX-E			0.05	0.515	1/2"	2.03	0.86	0.53			
PV2-10RX-XY	2 AWG	Red	0.06	0.632	#10	1.94	0.68	0.58	CT-720, CD-720PV8-2‡, CT-2600/L, CD-2600-PV2‡	10	100
PV2-14RX-XY			0.06	0.632	1/4"	1.94	0.68	0.58			
PV2-56RX-XY			0.06	0.632	5/16"	1.94	0.68	0.58			
PV2-38RX-XY			0.06	0.632	3/8"	1.94	0.68	0.58			
PV2-12RX-XY			0.06	0.632	1/2"	2.03	0.86	0.58			

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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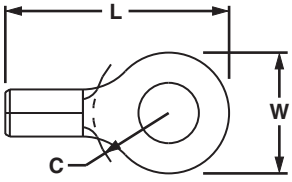
Ring Terminal, Non-Insulated

LISTED CERTIFIED

Type P-R

- Ring tongue design assures a secure connection in high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B





Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P22-2R-C*	26 – 22 AWG	0.02	#2	0.52	0.20	0.16	CT-200 CT-100A PKT B	100	1000
P22-4R-C*		0.02	#4	0.52	0.20	0.16			
P22-6R-C*		0.02	#6	0.52	0.20	0.16			
P22-8R-C*		0.02	#8	0.63	0.26	0.25			
P22-10R-C*		0.02	#10	0.63	0.31	0.22			
P18-4R-C	22 – 16 AWG	0.03	#4	0.62	0.25	0.21	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	1000
P18-6RN-C		0.03	#6	0.60	0.22	0.19			
P18-6R-C		0.03	#6	0.62	0.25	0.21			
P18-8R-C		0.03	#8	0.71	0.31	0.25			
P18-10R-C		0.03	#10	0.71	0.31	0.25			
P18-14R-C		0.03	1/4"	0.91	0.46	0.38			
P18-56R-C		0.03	5/16"	0.91	0.46	0.38			
P18-38R-C		0.03	3/8"	1.0	0.53	0.43			
P18-12R-C		0.03	1/2"	1.20	0.72	0.53			
P14-4R-C	18 – 14 AWG	0.03	#4	0.62	0.25	0.20	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	1000
P14-6R-C		0.03	#6	0.62	0.25	0.20			
P14-8R-C		0.03	#8	0.71	0.31	0.25			
P14-10R-C		0.03	#10	0.71	0.31	0.25			
P14-14R-C		0.03	1/4"	0.91	0.46	0.38			
P14-56R-C		0.03	5/16"	0.91	0.46	0.38			
P14-38R-C		0.03	3/8"	1.0	0.53	0.43			
P14-12R-L		0.03	1/2"	1.20	0.72	0.53		50	500
P10-6R-L^	14 – 10 AWG	0.04	#6	0.78	0.31	0.31	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-1701‡, CT-2500/L‡, CT-2300/ST‡	50	500
P10-8R-L		0.04	#8	0.78	0.31	0.31			
P10-10R-L^		0.04	#10	0.81	0.38	0.31			
P10-14R-L		0.04	1/4"	0.96	0.52	0.38			
P10-56R-L^		0.04	5/16"	0.95	0.52	0.38			
P10-38R-L^		0.04	3/8"	1.05	0.58	0.44			
P10-12R-L		0.04	1/2"	1.20	0.72	0.53			

*Wire sizes #26 – 22 AWG are not UL Listed or CSA Certified.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
^For military specification cross reference see page D1.67.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Non-Insulated – High Temperature

Type P-RHT

- Ring tongue design assures a secure connection in high vibration applications
- Nickel plated copper for temperatures up to 650°F (343°C)
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Rated up to 2000 V

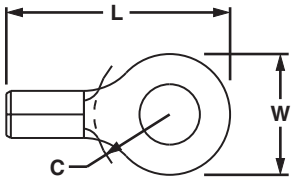


Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P18-6RHT6-C	22 – 16 AWG	0.03	#6	0.62	0.25	0.21	CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST	100	1000
P18-8RHT6-C		0.03	#8	0.71	0.31	0.25			
P18-10RHT6-C		0.03	#10	0.71	0.31	0.25			
P14-6RHT6-C	18 – 14 AWG	0.03	#6	0.62	0.25	0.20	CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST		
P14-8RHT6-C		0.03	#8	0.71	0.31	0.25			
P14-10RHT6-C		0.03	#10	0.71	0.31	0.25			
P10-6RHT6-L	12 – 10 AWG	0.04	#6	0.78	0.31	0.35	CT-100A, CT-200, UP14ZLW, CT-1570, CT-1701, CT-2500/L, CT-2300/ST	50	500
P10-8RHT6-L		0.04	#8	0.78	0.31	0.35			
P10-10RHT6-L		0.04	#10	0.81	0.38	0.33			
P10-14RHT6-L		0.04	1/4"	0.96	0.53	0.42			

Large Wire, Non-Insulated – High Temperature



P8-8RHT6-Q	8 AWG	0.04	#8	1.12	0.42	0.43	CT-2600/L, CD-2600-P8	25	250
P8-8RNHT6-Q		0.04	#8	1.09	0.36	0.43			
P8-10RHT6-Q		0.04	#10	1.14	0.42	0.43			
P8-10RNHT6-Q		0.04	#10	1.09	0.36	0.43			
P8-14RHT6-Q		0.04	1/4"	1.14	0.47	0.43			
P8-56RHT6-Q		0.04	5/16"	1.25	0.59	0.51			
P8-38RHT6-Q		0.04	3/8"	1.25	0.59	0.51			
P8-12RHT6-Q		0.04	1/2"	1.36	0.82	0.54			
P6-8RHT6-E	6 AWG	0.05	#8	1.21	0.47	0.43	CT-2600/L, CD-2600-P6	20	200
P6-10RHT6-E		0.05	#10	1.21	0.47	0.43			
P6-14RHT6-E		0.05	1/4"	1.21	0.47	0.43			
P6-56RHT6-E		0.05	5/16"	1.33	0.62	0.51			
P6-38RHT6-E		0.05	3/8"	1.33	0.62	0.51			
P6-12RHT6-E		0.05	1/2"	1.43	0.82	0.51			
P4-10RHT6-E	4 AWG	0.05	#10	1.40	0.55	0.50	CT-2600/L, CD-2600-P4		
P4-14RHT6-E		0.05	1/4"	1.40	0.55	0.50			
P4-56RHT6-E		0.05	5/16"	1.46	0.68	0.50			
P4-38RHT6-E		0.05	3/8"	1.46	0.68	0.50			
P4-12RHT6-E		0.05	1/2"	1.55	0.86	0.53			
P2-10RHT6-X	2 AWG	0.06	#10	1.46	0.68	0.58	CT-2600/L, CD-2600-P2	10	100
P2-14RHT6-X		0.06	1/4"	1.46	0.68	0.58			
P2-56RHT6-X		0.06	5/16"	1.46	0.68	0.58			
P2-38RHT6-X		0.06	3/8"	1.46	0.68	0.58			
P2-12RHT6-X		0.06	1/2"	1.55	0.86	0.58			



**Bulk packaging may be available, contact Panduit® Customer Service for additional information.

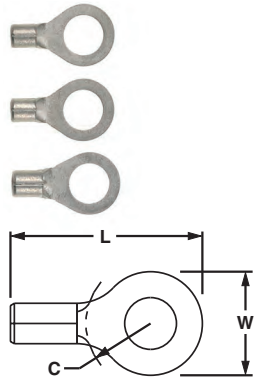
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ring Terminal, Heavy Duty Non-Insulated

LISTED CERTIFIED

Type P-HDR

- Ring tongue design assures a secure connection in high vibration applications
- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy-duty applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B



Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P12-6HDR-L	16 – 12 AWG	0.05	#6	0.78	0.31	0.36	CT-100A, CT-200, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	50	500
P12-8HDR-L		0.05	#8	0.78	0.31	0.36			
P12-10HDR-L		0.05	#10	0.81	0.37	0.36			
P12-14HDR-L		0.05	1/4"	0.96	0.52	0.43			
P12-56HDR-L		0.05	5/16"	0.96	0.52	0.43			
P12-38HDR-L		0.05	3/8"	1.04	0.58	0.48			

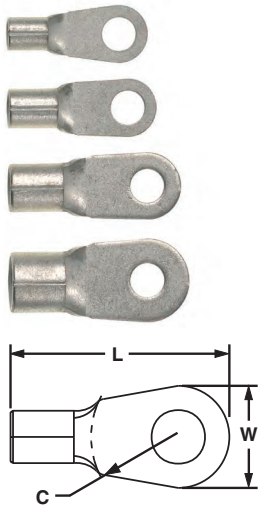
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Ring Terminal, Large Wire Non-Insulated

LISTED CERTIFIED

Type P-R

- Designed for use with #8 - #2 AWG copper wire
- Ring tongue design assures a secure connection in high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B



Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P8-8R-Q	8 AWG	0.04	#8	1.12	0.42	0.43	CT-1701‡, CT-2600/L, CD-2600-P8‡	25	250
P8-8RN-Q		0.04	#8	1.09	0.36	0.43			
P8-10R-Q		0.04	#10	1.14	0.47	0.43			
P8-14R-Q		0.04	1/4"	1.14	0.47	0.43			
P8-56R-Q		0.04	5/16"	1.25	0.59	0.51			
P8-38R-Q		0.04	3/8"	1.25	0.59	0.51			
P8-12R-Q		0.04	1/2"	1.36	0.82	0.54			
P6-8R-E	6 AWG	0.05	#8	1.21	0.47	0.43	CT-1701‡, CT-2600/L, CD-2600-P6‡	20	200
P6-10R-E		0.05	#10	1.21	0.47	0.43			
P6-14R-E		0.05	1/4"	1.21	0.47	0.43			
P6-56R-E		0.05	5/16"	1.33	0.62	0.51			
P6-38R-E		0.05	3/8"	1.33	0.62	0.51			
P6-12R-E		0.05	1/2"	1.43	0.82	0.51			
P4-10R-E	4 AWG	0.05	#10	1.40	0.55	0.50	CT-1701‡, CT-2600/L, CD-2600-P4‡		
P4-14R-E		0.05	1/4"	1.40	0.55	0.50			
P4-56R-E		0.05	5/16"	1.46	0.68	0.50			
P4-38R-E		0.05	3/8"	1.46	0.68	0.50			
P4-12R-E		0.05	1/2"	1.55	0.86	0.53			
P2-10R-X	2 AWG	0.06	#10	1.46	0.68	0.58	CT-1701‡, CT-2600/L, CD-2600-P2‡	10	100
P2-14R-X		0.06	1/4"	1.46	0.68	0.58			
P2-56R-X		0.06	5/16"	1.46	0.68	0.58			
P2-38R-X		0.06	3/8"	1.46	0.68	0.58			
P2-12R-X*		0.06	1/2"	1.55	0.86	0.58			

*Not CSA Certified.
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, One-Hole, Tubular Ring Terminal with Inspection Window

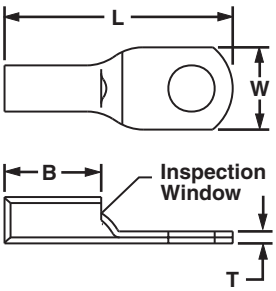
LISTED CERTIFIED

For Use with Stranded Copper Conductors

Type S-R

- Seamless tubular barrel provides a consistent high performance quality crimp
- Round double thick tongue for reliable power applications
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Inspection window allows visual inspection of proper wire insertion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with specified Panduit® crimping tools and dies
- Tin plated to inhibit corrosion





Part Number	Wire Range	Stud Hole Size	Tongue Width (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			W	L	B	T	
S8-10R-Q	8 AWG	#10	0.41	1.10	0.40	0.08	25
S8-14R-Q		1/4"	0.48	1.20	0.40	0.07	
S8-56R-Q		5/16"	0.60	1.30	0.40	0.05	
S8-38R-Q		3/8"	0.60	1.40	0.40	0.05	
S6-10R-E	6 AWG	#10	0.45	1.20	0.48	0.09	20
S6-14R-E		1/4"	0.48	1.30	0.48	0.08	
S6-56R-E		5/16"	0.56	1.40	0.48	0.07	
S6-38R-E		3/8"	0.62	1.50	0.48	0.06	
S4-10R-E	4 AWG	#10	0.55	1.20	0.48	0.09	20
S4-14R-E		1/4"	0.55	1.30	0.48	0.09	
S4-56R-E		5/16"	0.55	1.40	0.48	0.09	
S4-38R-E		3/8"	0.62	1.50	0.48	0.07	
S2-10R-X	1 – 2 AWG	#10	0.70	1.60	0.48	0.11	10
S2-14R-X		1/4"	0.70	1.60	0.59	0.11	
S2-56R-X		5/16"	0.70	1.70	0.59	0.11	
S2-38R-X		3/8"	0.70	1.70	0.59	0.11	
S2-12R-X		1/2"	0.79	1.90	0.59	0.09	
S1/0-14R-X	1/0 AWG	1/4"	0.76	1.60	0.58	0.12	10
S1/0-56R-X		5/16"	0.76	1.70	0.58	0.12	
S1/0-38R-X		3/8"	0.76	1.70	0.58	0.12	
S1/0-12R-X		1/2"	0.82	1.90	0.58	0.12	
S2/0-14R-X	2/0 AWG	1/4"	0.85	1.90	0.66	0.13	10
S2/0-56R-X		5/16"	0.85	1.90	0.66	0.13	
S2/0-38R-X		3/8"	0.85	1.90	0.66	0.13	
S2/0-76R-X		7/16"	0.85	2.10	0.83	0.13	
S2/0-12R-X		1/2"	0.85	2.10	0.83	0.13	
S3/0-14R-5	3/0 AWG	1/4"	0.96	2.10	0.83	0.13	5
S3/0-56R-5		5/16"	0.96	2.10	0.83	0.13	
S3/0-38R-5		3/8"	0.96	2.10	0.83	0.13	
S3/0-76R-5		7/16"	0.96	2.30	0.91	0.13	
S3/0-12R-5		1/2"	0.96	2.30	0.91	0.13	
S4/0-56R-5	4/0 AWG	5/16"	1.06	2.30	0.91	0.14	5
S4/0-38R-5		3/8"	1.06	2.30	0.91	0.14	
S4/0-76R-5		7/16"	1.06	2.50	0.91	0.14	
S4/0-12R-5		1/2"	1.06	2.50	0.91	0.14	
S250-56R-5	250 kcmil	5/16"	1.17	2.50	1.01	0.14	5
S250-38R-5		3/8"	1.17	2.50	1.01	0.14	
S250-76R-5		7/16"	1.17	2.60	1.01	0.14	
S250-12R-5		1/2"	1.17	2.60	1.01	0.14	

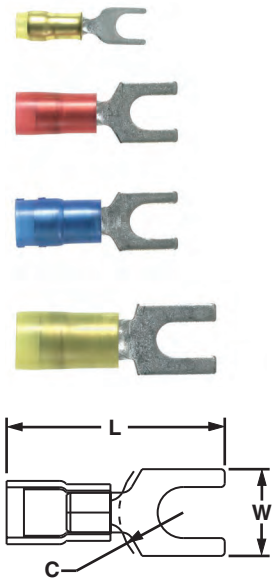
For crimping tool information, visit www.panduit.com/tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Fork Terminal, Nylon Insulated

Type PN-F

- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PN22-4F-C*	26 – 22 AWG	Yellow	0.02	0.090	#4	0.67	0.20	0.21	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	100	1000
PN22-6F-C*			0.02	0.090	#6	0.77	0.25	0.26			
PN18-6FN-C	22 – 18 AWG	Red	0.03	0.145	#6	0.78	0.24	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN18-6F-C			0.03	0.145	#6	0.78	0.30	0.20			
PN18-8F-C			0.03	0.145	#8	0.85	0.32	0.23			
PN18-10FN-C			0.03	0.145	#10	0.86	0.31	0.25			
PN18-10F-C			0.03	0.145	#10	0.86	0.35	0.25			
PN18-14F-C			0.03	0.145	1/4"	1.03	0.44	0.33			
PN14-6FN-C	18 – 14 AWG	Blue	0.03	0.162	#6	0.79	0.24	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN14-6F-C			0.03	0.162	#6	0.79	0.28	0.19			
PN14-8F-C			0.03	0.162	#8	0.85	0.31	0.23			
PN14-10FN-C			0.03	0.162	#10	0.87	0.31	0.24			
PN14-10F-C			0.03	0.162	#10	0.87	0.34	0.24			
PN14-14F-C			0.03	0.162	1/4"	1.02	0.44	0.32			
PN10-6F-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.00	0.31	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN10-8F-L			0.04	0.225	#8	1.03	0.37	0.22			
PN10-10F-L			0.04	0.225	#10	1.04	0.37	0.22			
PN10-14F-L			0.04	0.225	1/4"	1.14	0.49	0.30			

*Not UL Listed or CSA Certified.
**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
‡UL Listed, cULus Listed, and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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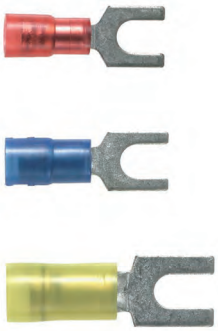
Order number of pieces required, in multiples of Standard Package Quantity.

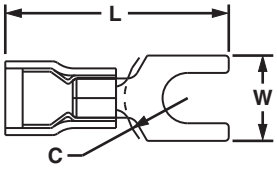
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Fork Terminal, Nylon Insulated – Funnel Entry

Type PNF-F

- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PNF18-6F-C	22 – 18 AWG	Red	0.03	0.136	#6	0.80	0.30	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF18-8F-C			0.03	0.136	#8	0.86	0.31	0.25			
PNF18-10F-C			0.03	0.136	#10	0.87	0.34	0.26			
PNF18-14F-C			0.03	0.136	1/4"	1.05	0.44	0.35			
PNF14-6F-C	16 – 14 AWG	Blue	0.03	0.162	#6	0.80	0.28	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF14-8F-C			0.03	0.162	#8	0.85	0.31	0.25			
PNF14-10F-C			0.03	0.162	#10	0.87	0.34	0.26			
PNF14-14F-C			0.03	0.162	1/4"	1.05	0.44	0.35			
PNF10-6F-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.01	0.31	0.24	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PNF10-8F-L			0.04	0.225	#8	1.02	0.37	0.24			
PNF10-10F-L			0.04	0.225	#10	1.04	0.37	0.24			
PNF10-14F-L			0.04	0.225	1/4"	1.15	0.50	0.31			

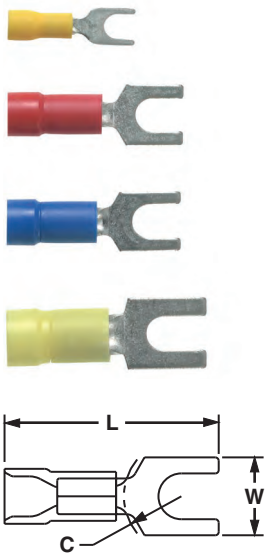
**Bulk and/or convenience packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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Fork Terminal, Vinyl Insulated – Funnel Entry

Type PV-F

- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV22-4F-CY*	26 – 22 AWG	Yellow	0.02	0.110	#4	0.67	0.20	0.21	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	100	1000
PV22-6F-CY*			0.02	0.110	#6	0.76	0.25	0.26			
PV18-6FN-CY	22 – 16 AWG	Red	0.03	0.150	#6	0.85	0.24	0.21	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-6F-CY			0.03	0.150	#6	0.86	0.30	0.21			
PV18-8F-CY			0.03	0.150	#8	0.93	0.32	0.25			
PV18-10FN-CY			0.03	0.150	#10	0.93	0.31	0.25			
PV18-10F-CY			0.03	0.150	#10	0.93	0.35	0.25			
PV14-6FN-C	16 – 14 AWG	Blue	0.03	0.170	#6	0.84	0.24	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-6F-C			0.03	0.170	#6	0.84	0.28	0.19			
PV14-8F-C			0.03	0.170	#8	0.90	0.31	0.23			
PV14-10FN-C			0.03	0.170	#10	0.92	0.31	0.24			
PV14-10F-C			0.03	0.170	#10	0.92	0.34	0.24			
PV14-14F-C			0.03	0.170	1/4"	1.09	0.44	0.32		100	1000
PV10-6F-L	14 – 10 AWG	Yellow	0.04	0.225	#6	1.01	0.31	0.25	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-8F-L			0.04	0.225	#8	1.04	0.37	0.25			
PV10-10F-L			0.04	0.225	#10	1.04	0.37	0.25			
PV10-14F-L			0.04	0.225	1/4"	1.14	0.49	0.32			

*Not UL Listed or CSA Certified.

**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.

‡UL Listed, cULus Listed, and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

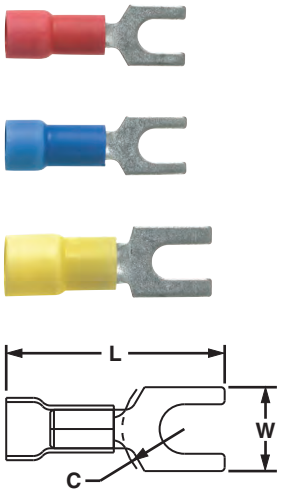
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Fork Terminal, Vinyl Insulated – Expanded Insulation

Type PV-FX

- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B



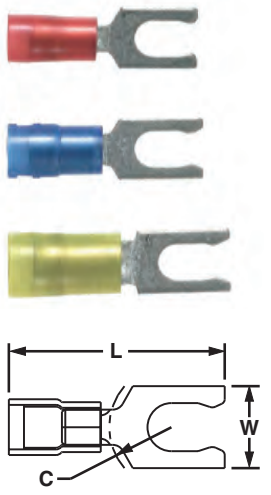
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV18-6FX-CY	22 – 18 AWG	Red	0.03	0.170	#6	0.83	0.30	0.21	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-8FX-CY			0.03	0.170	#8	0.89	0.32	0.25			
PV18-10FX-CY			0.03	0.170	#10	0.91	0.35	0.25			
PV14-6FX-C	18 – 14 AWG	Blue	0.03	0.200	#6	0.89	0.28	0.16	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-8FX-C			0.03	0.200	#8	0.96	0.31	0.20			
PV14-10FX-C			0.03	0.200	#10	0.97	0.34	0.22			
PV10-8FX-L	12 – 10 AWG	Yellow	0.04	0.250	#8	1.11	0.37	0.24	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-10FX-L			0.04	0.250	#10	1.11	0.37	0.24			
PV10-14FX-L			0.04	0.250	1/4"	1.22	0.50	0.32			

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Locking Fork Terminal, Nylon Insulated

Type PN-LF

- Locks in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PN18-6LF-C	22 – 18 AWG	Red	0.03	0.145	#6	0.82	0.27	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN18-6LFW-C			0.03	0.145	#6	0.85	0.29	0.22			
PN18-8LF-C			0.03	0.145	#8	0.89	0.29	0.25			
PN18-10LF-C			0.03	0.145	#10	0.89	0.33	0.25			
PN18-10LFN-C			0.03	0.145	#10	0.91	0.29	0.25			
PN14-6LF-C	18 – 14 AWG	Blue	0.03	0.162	#6	0.86	0.25	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN14-6LFW-C			0.03	0.162	#6	0.84	0.29	0.22			
PN14-8LF-C			0.03	0.162	#8	0.92	0.29	0.25			
PN14-10LF-C			0.03	0.162	#10	0.91	0.33	0.25			
PN14-10LFN-C			0.03	0.162	#10	0.91	0.28	0.25			
PN10-6LF-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.23	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN10-8LF-L			0.04	0.225	#8	1.05	0.30	0.23			
PN10-10LF-L			0.04	0.225	#10	1.05	0.34	0.23			
PN10-14LF-L			0.04	0.225	1/4"	1.17	0.46	0.32			

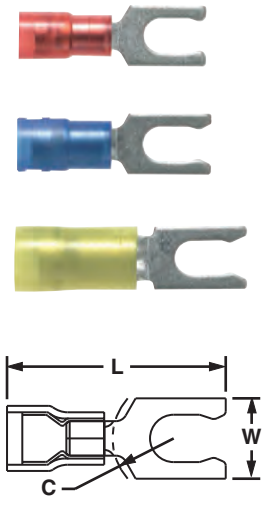
**Bulk and/or convenience packaging may be available, contact Panduit Customer Service for additional information.
‡UL Listed, cULus Listed, and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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Locking Fork Terminal, Nylon Insulated – Funnel Entry

Type PNF-LF

- Locks in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



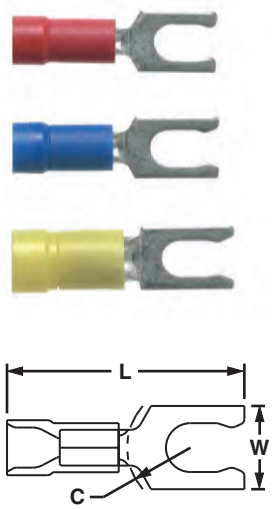
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PNF18-6LF-C	22 – 18 AWG	Red	0.03	0.145	#6	0.82	0.27	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF18-6LFW-C			0.03	0.145	#6	0.85	0.29	0.20			
PNF18-8LF-C			0.03	0.145	#8	0.89	0.29	0.26			
PNF18-10LF-C			0.03	0.145	#10	0.89	0.33	0.25			
PNF14-6LF-C	18 – 14 AWG	Blue	0.03	0.162	#6	0.87	0.25	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PNF14-6LFW-C			0.03	0.162	#6	0.84	0.29	0.20			
PNF14-8LF-C			0.03	0.162	#8	0.93	0.29	0.25			
PNF14-10LF-C			0.03	0.162	#10	0.93	0.33	0.25			
PNF10-6LF-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PNF10-8LF-L			0.04	0.225	#8	1.05	0.30	0.20			
PNF10-10LF-L			0.04	0.225	#10	1.05	0.34	0.22			
PNF10-14LF-L			0.04	0.225	1/4"	1.19	0.46	0.33			

**Bulk and/or convenience packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Locking Fork Terminal, Vinyl Insulated – Funnel Entry

Type PV-LF

- Locks in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV18-6LF-CY	22 – 18 AWG	Red	0.03	0.150	#6	0.90	0.27	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-6LFW-CY			0.03	0.150	#6	0.90	0.29	0.22			
PV18-8LF-CY			0.03	0.150	#8	0.97	0.29	0.25			
PV18-10LF-CY			0.03	0.150	#10	0.97	0.33	0.25			
PV18-10LFN-CY			0.03	0.150	#10	0.97	0.29	0.25			
PV14-6LF-C	18 – 14 AWG	Blue	0.03	0.170	#6	0.90	0.25	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-6LFW-C			0.03	0.170	#6	0.90	0.29	0.22			
PV14-8LF-C			0.03	0.170	#8	0.97	0.29	0.25			
PV14-10LF-C			0.03	0.170	#10	0.97	0.33	0.25			
PV14-10LFN-C			0.03	0.170	#10	0.97	0.29	0.25			
PV10-6LF-L	12 – 10 AWG	Yellow	0.04	0.225	#6	1.03	0.30	0.23	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-8LF-L			0.04	0.225	#8	1.05	0.30	0.23			
PV10-10LF-L			0.04	0.225	#10	1.04	0.34	0.23			
PV10-14LF-L			0.04	0.225	1/4"	1.19	0.46	0.36			

**Bulk and/or convenience packaging may be available, contact Panduit Customer Service for additional information.
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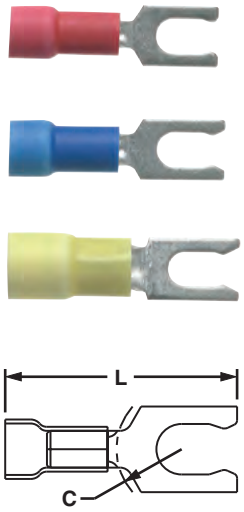
Order number of pieces required, in multiples of Standard Package Quantity.

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Locking Fork Terminal, Vinyl Insulated – Expanded Insulation

Type PV-LFX

- Fork design provides for fast and easy installation, without the need to remove fastener
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Locks in place for secure connection
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV18-6LFX-CY	22 – 16 AWG	Red	0.03	0.170	#6	0.95	0.27	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-8LFX-CY			0.03	0.170	#8	1.01	0.29	0.20			
PV18-10LFX-CY			0.03	0.170	#10	1.04	0.33	0.23			
PV14-6LFX-C	18 – 14 AWG	Blue	0.03	0.200	#6	0.95	0.25	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-8LFX-C			0.03	0.200	#8	1.01	0.29	0.23			
PV14-10LFX-C			0.03	0.200	#10	1.01	0.33	0.23			
PV10-6LFX-L	12 – 10 AWG	Yellow	0.04	0.250	#6	1.09	0.30	0.23	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-8LFX-L			0.04	0.250	#8	1.12	0.30	0.23			
PV10-10LFX-L			0.04	0.250	#10	1.12	0.34	0.23			
PV10-14LFX-L			0.04	0.250	1/4"	1.25	0.46	0.32			

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.

‡UL Listed, cULus Listed, and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

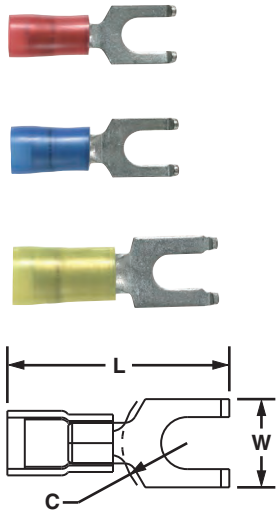
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Flanged Fork Terminal, Nylon Insulated

LISTED CERTIFIED

Type PN-FF

- Fork design provides for fast and easy installation, without the need to remove fastener
- Flange design provides extra secure connection on a variety of applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PN18-6FF-C	22 – 16 AWG	Red	0.03	0.136	#6	0.81	0.28	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN18-8FF-C			0.03	0.136	#8	0.88	0.31	0.23			
PN18-10FF-C			0.03	0.136	#10	0.86	0.35	0.23			
PN14-6FF-C	18 – 14 AWG	Blue	0.03	0.162	#6	0.79	0.28	0.20	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PN14-8FF-C			0.03	0.162	#8	0.86	0.31	0.23			
PN14-10FF-C			0.03	0.162	#10	0.86	0.36	0.23			
PN10-8FF-L	12 – 10 AWG	Yellow	0.04	0.225	#8	1.05	0.37	0.28	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PN10-10FF-L			0.04	0.225	#10	1.05	0.37	0.28			

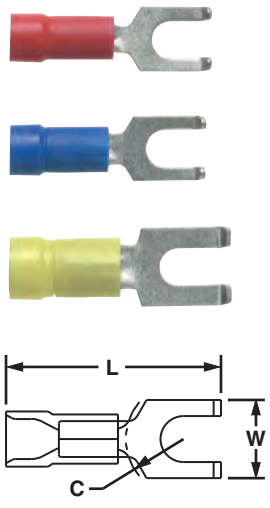
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Flanged Fork Terminal, Vinyl Insulated – Funnel Entry

LISTED CERTIFIED

Type PV-FF

- Fork design provides for fast and easy installation, without the need to remove fastener
- Flange design provides extra secure connection on a variety of applications
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B



Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max. Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV18-6FF-CY	22 – 16 AWG	Red	0.03	0.136	#6	0.87	0.28	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV18-8FF-CY			0.03	0.136	#8	0.94	0.31	0.23			
PV18-10FF-CY			0.03	0.136	#10	0.93	0.35	0.23			
PV14-6FF-C	16 – 14 AWG	Blue	0.03	0.165	#6	0.88	0.28	0.19	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	100	500
PV14-8FF-C			0.03	0.165	#8	0.94	0.31	0.23			
PV14-10FF-C			0.03	0.165	#10	0.94	0.35	0.23			
PV10-8FF-L	14 – 10 AWG	Yellow	0.04	0.225	#8	1.03	0.37	0.22	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L‡, CT-2300/ST‡	50	500
PV10-10FF-L			0.04	0.225	#10	1.03	0.37	0.22			

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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LISTED CERTIFIED

Fork Terminal, Non-Insulated

Type P-F

- Fork design provides for fast and easy installation, without the need to remove fastener
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B



Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.)			Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L	W	C			
P22-4F-C*	26 – 22 AWG	0.02	#4	0.49	0.20	0.19	CT-200	100	1000
P22-6F-C*		0.02	#6	0.59	0.25	0.26			
P18-6FN-C	22 – 16 AWG	0.03	#6	0.63	0.24	0.19	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	1000
P18-6F-C		0.03	#6	0.63	0.30	0.21			
P18-8F-C		0.03	#8	0.69	0.32	0.25			
P18-10FN-C		0.03	#10	0.71	0.31	0.25			
P18-10F-C		0.03	#10	0.71	0.35	0.25			
P18-14F-C		0.03	1/4"	0.88	0.44	0.33			
P14-6FN-C	18 – 14 AWG	0.03	#6	0.63	0.24	0.20	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	1000
P14-6F-C		0.03	#6	0.63	0.28	0.20			
P14-8F-C		0.03	#8	0.69	0.31	0.23			
P14-10FN-C		0.03	#10	0.71	0.31	0.25			
P14-10F-C		0.03	#10	0.71	0.34	0.25			
P14-14F-C		0.03	1/4"	0.88	0.44	0.33			
P10-6F-L	12 – 10 AWG	0.04	#6	0.75	0.31	0.22	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-1701‡, CT-2500/L‡, CT-2300/ST‡	50	500
P10-8F-L		0.04	#8	0.78	0.37	0.22			
P10-10F-L		0.04	#10	0.78	0.37	0.23			
P10-14F-L		0.04	1/4"	0.89	0.50	0.30			

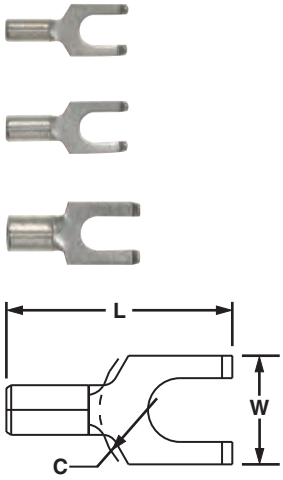
*Not UL Listed or CSA Certified.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL Listed, cULus Listed, and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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Flanged Fork Terminal, Non-Insulated

Type P-FF

- Fork design provides for fast and easy installation, without the need to remove fastener
- Flange design provides extra secure connection on a variety of applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B



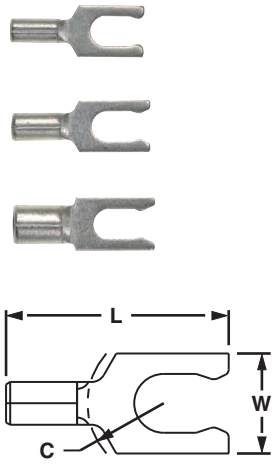
Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P18-8FF-C	22 – 16 AWG	0.03	#8	0.72	0.31	0.25	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	500
P14-6FF-C	16 – 14 AWG	0.03	#6	0.65	0.28	0.22			
P14-8FF-C		0.03	#8	0.72	0.31	0.25			
P10-10FF-L	12 – 10 AWG	0.04	#10	0.80	0.38	0.28	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-1701‡, CT-2500/L‡, CT-2300/ST‡	50	

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Locking Fork Terminal, Non-Insulated

Type P-LF

- Locks in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Brazed seam protects terminal barrel from splitting during the crimp process
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486A/B



Part Number	Wire Range	Stock Thickness (In.)	Stud Size	Figure Dimensions (In.) L	W	C	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
P18-6LF-C	22 – 16 AWG	0.03	#6	0.68	0.27	0.22	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	500
P18-6LFW-C		0.03	#6	0.70	0.29	0.22			
P18-8LF-C		0.03	#8	0.74	0.29	0.23			
P18-10LFN-C***		0.03	#10	0.74	0.28	0.23			
P18-10LF-C		0.03	#10	0.74	0.33	0.23			
P14-6LF-C	18 – 14 AWG	0.03	#6	0.70	0.25	0.22	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L‡, CT-2300/ST‡	100	500
P14-6LFW-C		0.03	#6	0.70	0.29	0.22			
P14-8LF-C		0.03	#8	0.77	0.29	0.27			
P14-10LFN-C***		0.03	#10	0.77	0.29	0.27			
P14-10LF-C		0.03	#10	0.77	0.33	0.27			
P10-6LF-L	14 – 10 AWG	0.04	#6	0.77	0.30	0.23	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-1701‡, CT-2500/L‡, CT-2300/ST‡	50	500
P10-8LF-L		0.04	#8	0.79	0.30	0.23			
P10-10LF-L		0.04	#10	0.79	0.34	0.23			
P10-14LF-L		0.04	1/4"	0.92	0.46	0.33			

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
***Not CSA certified.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Plastic Box Terminal Kits

- Ideal for maintenance and construction wiring
- Positive latching case prevents accidental opening
- With the case top closed, parts remain in their compartments
- Case features a hanging tab for storage



KP-1075Y



KP-1165Y

Part Number	Part Description	Std. Pkg. Qty.
KP-1075Y	Terminal kit without crimping tool. Includes the following: (20) PV18-8R; PV18-6F; PV14-8F; PV14-10R; (10) PV10-8R; PV10-10R; DNF14-250; DNF18-250; BSV18X; BSV14X; BSV10X; (10) JN418-212.	1
KP-1000	Empty plastic box, twelve terminal compartments and one tool compartment, measures 11" wide x 6 3/4" deep x 1 3/4" high. Positive latch prevents accidental opening. Once top is closed, terminals remain in their compartments.	
KP-1165Y	Includes the following: (18) PV18-8R; PV14-10R; PV18-6F; PV14-8F; (10) PV10-8R; PV10-10R; BSV18X; BSV14X; BSV10X; DV18-250B; DV14-188B; (5) JN418-212; (1) CT-160 Tool; KP-1000 box.	
KP-1166	Includes the following: (18) P18-8R; P14-10R; P18-6F; P14-8F; (10) P10-8R; P10-10R; BS18; BS14; BS10; D18-250; D14-188; (5) JN218-216; (1) CT-160 tool; KP-1000 box.	

Steel Kit Boxes

- Latch prevents accidental opening
- Once lid is closed, terminals remain in their compartments
- Handle for portability or as drawer pull when used in rack
- Drop-in label area on front measures: 2.13"H x 13.75"W x 9.75"D (54.0mm x 349.3mm x 247.7mm)



Part Number	Part Description	Std. Pkg. Qty.
K-1000	Empty steel box, 20 terminal compartments and one tool compartment, dimensions: 2.00"H x 13.33"W x 9.33"D (50.8mm x 338.6mm x 237.0mm).	1
K-1001	Empty steel kit box, 16 terminal compartments and one tool compartment, box dimensions: 2.00"H x 13.33"W x 9.33"D (50.8mm x 338.6mm x 237.0mm).	
K-1100	Steel box and CT-100A crimping tool.	
K-1102Y	Includes the following: (100) PV18-6LF; PV18-8LF; PV14-8LF; PV14-10LF; BSV18X; BSV14X; (50) PV10-10LF; BSV10X; (1) CT-100A tool; K-1000 box.	
K-1103Y	Includes the following: (100) DV18-250B; DV14-250B; DV14-250MB; D18-250; D14-250; (50) DV10-250; D10-250; (1) CT-100A tool; K-1000 box.	
K-1104	Includes the following: (50) PN18-10R; PN14-6R; PN14-10R; PN18-6F; PN14-6F; PN14-10F; (25) PN10-10R; PN10-56R; PN10-10F; BSN14; BSN10; JN418-212; (1) CT-100A tool; K-1000 box.	

Steel Slide Racks

- Steel boxes for cable tie kits and K-1000 terminal kits
- Steel boxes and storage slide racks can be combined for neat and organized storage of cable ties and terminals
- Rugged and durable steel construction
- Empty boxes, full kits, and slide racks are purchased according to your application needs



Part Number	Part Description	Std. Pkg. Qty.
SR2	2-drawer slide rack to hold K-504 cable tie kit or K-1000 series terminal kit. Dimensions: 6.25"H x 15.25"W x 11.75"D (158.7mm x 387.4mm x 298.5mm).	1
SR4	4-drawer slide rack to hold K-1000 series terminal kit. Dimensions: 11.25"H x 15.25"W x 11.75"D (285.8mm x 387.4mm x 298.5mm).	
SR6	6-drawer slide rack to hold K-1000 series terminal kit. Dimensions: 16.38"H x 15.25"W x 11.75"D (416.1mm x 387.4mm x 298.5mm).	

Slide racks will accommodate the following Panduit® kits:			
K-1000	K-1100	K-1103Y	K1-PNKIT
K-1001	K-1102Y	K-1104	K2-PVKITY

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Industrial Maintenance Kits

- Steel kits have individual compartments for storage of terminals
- Convenient carrying handle
- Once top is closed, terminals remain in their compartments



K1-PNKIT



K2-PVKITY



K-205

Part Number	Part Description	Std. Pkg. Qty.
K1-PNKIT	Kit contains: (1) K-1001 steel kit box (1) CT-100A installation tool Cable Ties (100) PLT2S cable ties Terminals (100) PN18-6LF locking fork terminals (100) PN14-8LF locking fork terminals (50) PN10-10LF locking fork terminals (100) PN18-8F fork terminals (100) PN18-10R ring terminals (100) PN14-6R ring terminals (100) PN14-10R ring terminals (50) PN10-10R ring terminals Disconnects (100) DNF18-250 disconnects (100) DNF14-250 disconnects (50) DV10-250 disconnects Splices (50) BSN18 butt splices (50) BSN14 butt splices (25) BSN10 butt splices Marking System (1) PMD-0-9 marking dispenser and tape (100) MP150 marker tags (1) PX-0 marker	
K2-PVKITY	Kit contains: (1) K-1001 steel kit box (1) CT-100A installation tool Cable Ties (100) PLT2S cable ties Terminals (100) PV18-8F fork terminals (100) PV18-6LF locking fork terminals (100) PV14-8LF locking fork terminals (50) PV10-10LF locking fork terminals (100) PV18-8R ring terminals (100) PV14-10R ring terminals (50) PV10-10R ring terminals Disconnects (100) DNF18-250 disconnects (100) DV14-250B disconnects (50) DV10-250 disconnects Splices (50) BSV18X butt splices (50) BSV14X butt splices (25) BSV10X butt splices Wire Joints (30) JN224-318 (15) JN418-212 Marking System (1) PMD-0-9 marking dispenser and tape	1
K-205*	**Kit for Indoor Use** Pan-Ty® Cable Ties, cable tie installation tool, terminals, splices and crimp tool: (1) GTS tool (1) CT-100A crimp tool Natural Nylon 6.6 Cable Ties (100) PLT1M (100) PLT1.5I (100) PLT2S Terminals (100) PV18-6LF (100) PV14-8LF (100) PV14-10LF (50) PV10-10LF Splices (50) BSV10X (100) BSV14X (100) BSV18X	

*The K-205 does not fit into the SR2, SR4, or SR6.

Order number of pieces required, in multiples of Standard Package Quantity.

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Disconnects

Panduit® Pan-Term® Disconnects are designed and precision made to function as a reliable method of making quick, repeatable interconnections. Available with nylon, premium nylon, vinyl insulation or non-insulated.

- **Fully insulated design provides excellent protection from electrical shorts and provides additional installer protection for safety from electrical shocks**
- **Funnel entry speeds insertion and minimizes turned back wire strands**
- **Integrated metal insulation grip provides double crimp insulation grip for high vibration or conductor strain environments on select Supra-Grip™ Disconnects and DiscoGrip™ Disconnects**
- **Applicable sizes are UL Listed and CSA Certified, as noted**
- **Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools for reliable connections at the lowest installed cost**

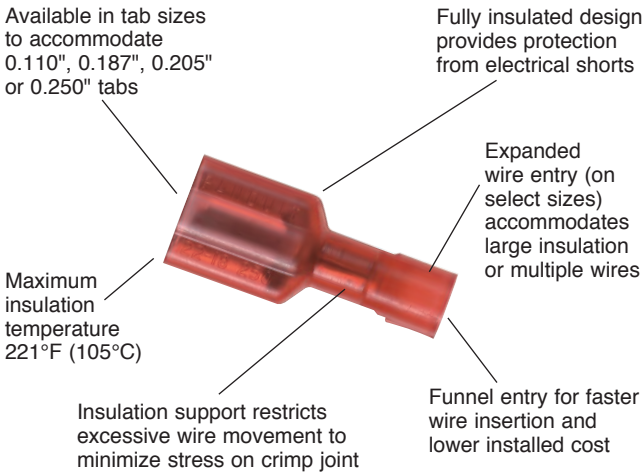
Panduit continually provides new designs to meet the application challenges encountered by our customers. Panduit offers a wide assortment of Pan-Term® termination products at the lowest installed cost.

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Features and Benefits – Pan-Term® Disconnects

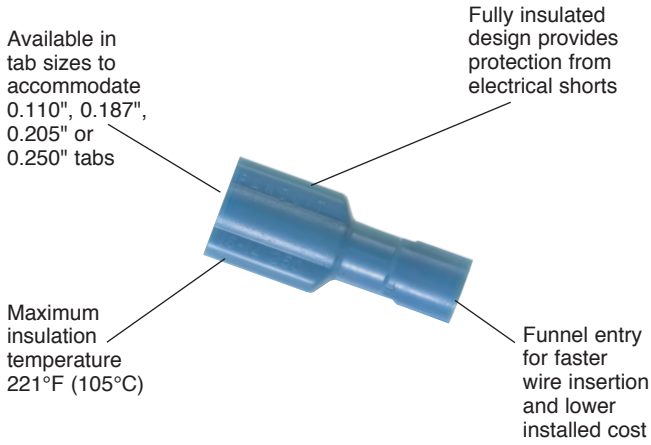
Pan-Term® Disconnects are fabricated from brass and are electro tin-plated for a long, corrosion resistant operating life.

Nylon Fully Insulated Female Receptacles and Male Tabs Type DNF-FIB



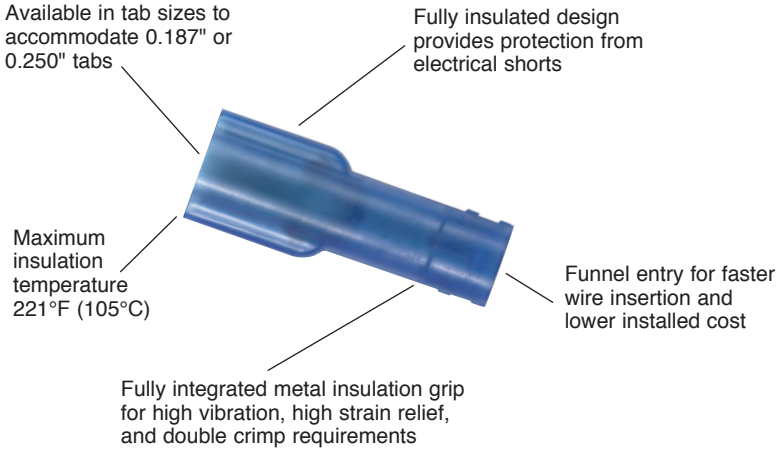
UL and CSA rated up to 600 V per UL 310.
Flammability – UL 94 HB.

Disco-Grip™ Premium Nylon Fully Insulated Female Receptacles and Male Tabs Type DPF



UL and CSA rated up to 600 V per UL 310.
Male products available 0.250" width in standard and oversized housing configurations.

Supra-Grip™ Nylon Fully Insulated Female Disconnects Type DNG-FB



UL and CSA rated up to 600 V per UL 310.
Flammability – UL 94 HB.



Panduit® designs and manufactures a full line of labeling products, software, and printers to assist you with your labeling requirements.

See pages E1.1 – E2.29.

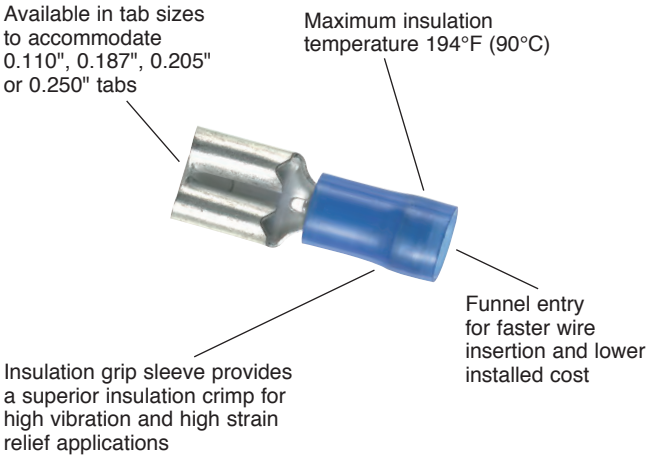
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Order number of pieces required, in multiples of Standard Package Quantity.

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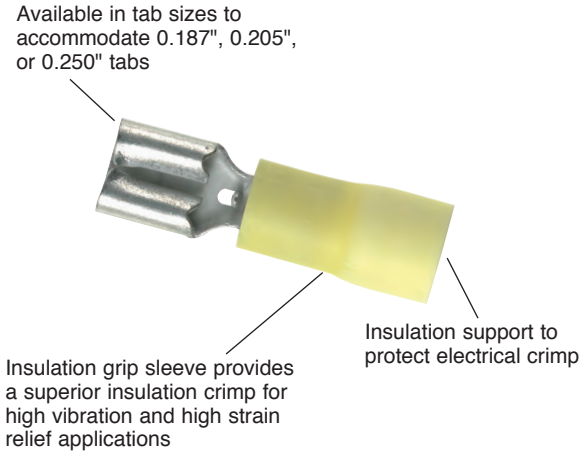
Features and Benefits – Pan-Term® Disconnects (continued)

Nylon Barrel Insulated Female Receptacles and Male Tabs Type DNF



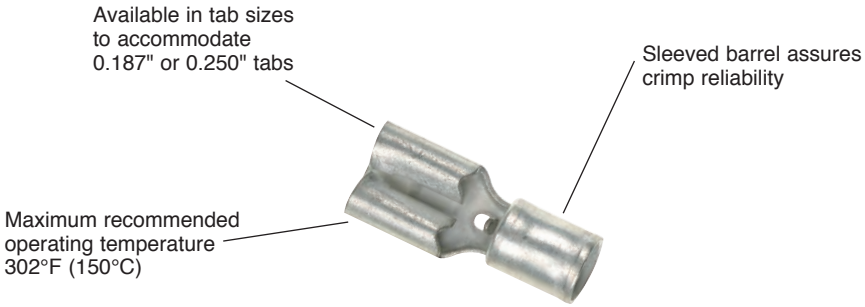
UL and CSA rated up to 300 V per UL 310.
Flammability – UL 94 HB.
Male products available 0.250" width.

Vinyl Barrel Insulated Female Receptacles and Male Tabs Type DV and DVF

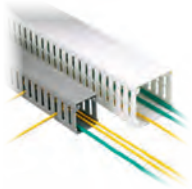


UL and CSA rated up to 300 V per UL 310.
Male products available 0.250" width.
Flammability – UL 94V-0.

Non-Insulated Female Receptacles and Male Tabs Type D



UL and CSA rated up to 2000 V per UL 310.
Male products available 0.250" width.



Panduit® wiring duct offers a wide variety of sizes and types to meet the wire capacity needs and space constraints of the smallest wall mounted to the largest integrated systems.

See pages C1.1 – C1.53.



A comprehensive selection of cable ties used to bundle, mount, and identify wire and cable.

See pages B1.1 – B1.106.

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Selection Guide – Pan-Term® Disconnects

Disconnects



Material	Style	Design	Feature	Type	Page Number
Nylon	Fully Insulated	Female	Funnel Entry, Ins. Grip	DNG-FB	D1.35
		Female	Funnel, Ins. Support, Two-Pc.	DNF-FIB	D1.37
		Female	Funnel, Ins. Support, Three-Pc.	DNF-FI	D1.37
		Female	Funnel Entry, Premium Nylon	DPF-FIB	D1.38
		Male	Funnel, Ins. Support, Two-Pc.	DNF-FIM	D1.36
		Male	Premium Nylon	DPF-FIM	D1.38
		Female Right Angle	Funnel Entry, Ins. Support	DNFR-FIB	D1.41
		Female Right Angle	Funnel Entry, Open Top	DNFR-B	D1.42
	Barrel Insulated	Female	Funnel Entry, Ins. Grip	DNF	D1.39
		Male	Funnel Entry, Ins. Grip	DNF-M	D1.43
Vinyl	Barrel Insulated	Female	Funnel Entry, Ins. Grip, Three-Pc.	DVF	D1.40
		Female	Funnel Entry, Butted Seam, Two-Pc.	DV-B	D1.40
		Male	Funnel Entry, Butted Seam, Two-Pc.	DV-MB	D1.44
		Piggyback	Funnel Entry, Ins. Grip	DV-P	D1.43
Heat Shrink	Fully Insulated	Female	Heat Shrink Insulated	DNH-FIB	D1.38
		Male	Heat Shrink Insulated	DNH-FIM	D1.38
Non-Insulated		Female	Sleeved Barrel	D	D1.41
		Female Right Angle	Sleeved Barrel	DR	D1.42
		Male	Butted Seam	D-MB	D1.44
		Adapter	Two Female to One Male	D-A	D1.43

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Pan-Term® Disconnects

P	NF	–	14	250	FIB	–	M
Type	Insulation		Wire Range	Tab Size	Special Configuration		Std. Pkg. Size
D = Disconnects	N = Nylon NF = Nylon, Funnel Entry NFR = Nylon, Funnel Entry, Right Angle NG = Nylon, Funnel Entry, Metal Insulation Grip NH = Heat Shrink PF = Premium Grade Nylon, Funnel Entry R = Non-insulated, Right Angle V = Vinyl VF = Vinyl Funnel Entry = Non-Insulated (leave blank)		18 = #22 – 18 14 = #16 – 14 10 = #12 – 10	110 = 0.110 x 0.032 111 = 0.110 x 0.020 187 = 0.187 x 0.032 188 = 0.187 x 0.020 205 = 0.187/0.205 x 0.032 206 = 0.187/0.205 x 0.020 250 = 0.250 x 0.032	A = Adapter B = Butted Seam FB = Metal Insulation Grip, Female FI = Fully Insulated, Female FIB = Fully Insulated, Butted Seam, Female FIM = Fully Insulated, Male FIMB = Fully Insulated, Male with oversized housing M = Male M B = Butted, Male P = Piggyback = Female (leave blank)		Q = 25 L = 50 C = 100 D = 500 M = 1000

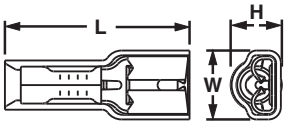
Supra-Grip™ Female Disconnect, Nylon Fully Insulated – Funnel Entry

Type DNG-FB

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Flared barrel extension integrated into stamping to provide insulation grip for double crimp requirements
- Fully insulated design provides protection from electrical shorts
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher-quality connection
- Mates with DNF-FIMB family
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310







Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DNG18-187FB-C	22 – 18 AWG	Red	0.126	0.89	0.29	0.22	0.187 x 0.032	CT-1015	100	1000
DNG18-188FB-C				0.89	0.29	0.22	0.187 x 0.020			
DNG18-250FB-L				0.93	0.35	0.22	0.250 x 0.032		50	250
DNG14-187FB-L*	16 – 14 AWG	Blue	0.153	0.89	0.29	0.25	0.187 x 0.032	CT-1015	50	250
DNG14-188FB-L*				0.89	0.29	0.25	0.187 x 0.020			
DNG14-250FB-L				0.93	0.35	0.25	0.250 x 0.032			

*UL Recognized for use with copper alloy tabs.

**Bulk packaging may be available, contact Panduit® Customer Service for additional information. For crimping tool information see www.panduit.com/tools.

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Male/Female Coupler, Nylon Fully Insulated – Funnel Entry

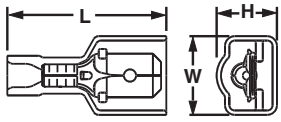
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Type DNF

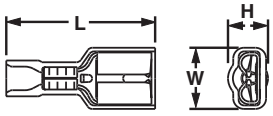
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Coupler, male, and female parts sold separately
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310


MALE


FEMALE



MALE



FEMALE

Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.)			Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L	W	C				
DNF18-250FIM-L Male	22 – 18 AWG	Red	0.133	0.90	0.42	0.27	0.250 x 0.032	CT-100A‡, UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	50	250
DNF18-250FIMB-L Male			0.136	0.91	0.45	0.34			50	500
DNF18-250FIB-C Female			0.136	0.84	0.35	0.22	0.250 x 0.032	CT-100A, UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DNF14-250FIM-L Male	16 – 14 AWG	Blue	0.158	0.90	0.42	0.27	0.250 x 0.032	UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	50	250
DNF14-250FIMB-Q Male			0.160	0.91	0.45	0.34			25	125
DNF14-250FIB-C Female			0.160	0.84	0.35	0.22	0.250 x 0.032	CT-100A, UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DNF10-250FIMB-Q Male	12 – 10 AWG	Yellow	0.220	0.96	0.45	0.36	0.250 x 0.032	UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	25	125
DNF10-250FI-L Female			0.220	0.95	0.36	0.27	0.250 x 0.032	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	50	500

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Female Disconnect, Nylon Fully Insulated – Funnel Entry

Type DNF-FIB

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DNF18-110FIB-C	22 – 18 AWG	Red	0.120	0.71	0.19	0.16	0.110 x 0.032	CT-100A, UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DNF18-111FIB-C			0.120	0.71	0.19	0.16	0.110 x 0.020			
DNF18-187FIB-C			0.136	0.78	0.29	0.16	0.187 x 0.032			
DNF18-188FIB-C			0.136	0.78	0.29	0.16	0.187 x 0.020			
DNF18-205FIB-L			0.136	0.78	0.31	0.22	0.205/0.187 x 0.032		50	250
DNF18-206FIB-L			0.136	0.78	0.31	0.22	0.205/0.187 x 0.020		50	250
DNF18-250FIB-C			0.136	0.84	0.35	0.22	0.250 x 0.032		100	1000
DNF14-187FIB-C	16 – 14 AWG	Blue	0.160	0.78	0.29	0.18	0.187 x 0.032	CT-100A, UP14ZLW, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DNF14-188FIB-C			0.160	0.78	0.29	0.18	0.187 x 0.020			
DNF14-205FIB-C			0.160	0.78	0.31	0.22	0.205/0.187 x 0.032			
DNF14-206FIB-C			0.160	0.78	0.31	0.22	0.205/0.187 x 0.020			
DNF14-250FIB-C			0.160	0.84	0.35	0.22	0.250 x 0.032			
DNF10-250FIB-L	12 – 10 AWG	Yellow	0.220	0.96	0.35	0.23	0.250 x 0.032	CT-1525‡, CT-2500/L, CT-2300/ST	50	500

Female Disconnect Nylon Insulated – Expanded Entry

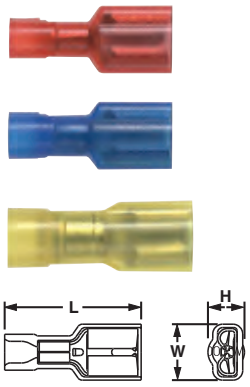
DNF18205FIBX-L*	22 – 18 AWG	Red	0.210	0.87	0.31	0.22	0.205/0.187 x 0.032	CT-100A	50	250
DNF18206FIBX-L*			0.210	0.87	0.31	0.22	0.205/0.187 x 0.020			
DNF18250FIBX-L*			0.210	0.93	0.35	0.22	0.250 x 0.032			
DNF14206FIBX-L*	16 – 14 AWG	Blue	0.240	0.87	0.31	0.22	0.205/0.187 x 0.020	CT-100A		
DNF14250FIBX-L*			0.240	0.93	0.35	0.22	0.250 x 0.032			

Not UL or CSA certified
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Female Disconnect, Nylon Fully Insulated – Funnel Entry, Metal Collar

Type DNF-FI

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Barrel design with larger outside diameter for use with more common hand tools
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DNF18-250FI-L	22 – 18 AWG	Red	0.140	0.94	0.36	0.21	0.250 x 0.032	CT-100A, UP14ZLW, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	50	250
DNF14-250FI-L	16 – 14 AWG	Blue	0.160	0.94	0.36	0.24				
DNF10-250FI-L	12 – 10 AWG	Yellow	0.220	0.95	0.36	0.27	0.250 x 0.032	CT-100A‡, UP14ZLW‡, CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	50	500

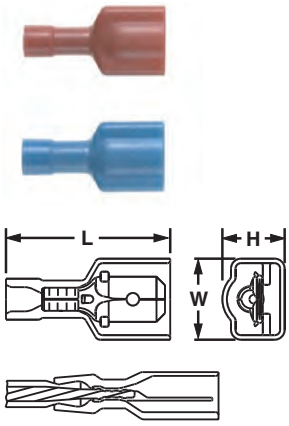
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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DiscoGrip™ Male Disconnect, Premium Nylon Fully Insulated – Funnel Entry

Type DPF-FIM

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Fully insulated design provides protection from electrical shorts
- Oversized housing designed for maximum versatility to mate with most commercially available fully insulated female disconnects
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



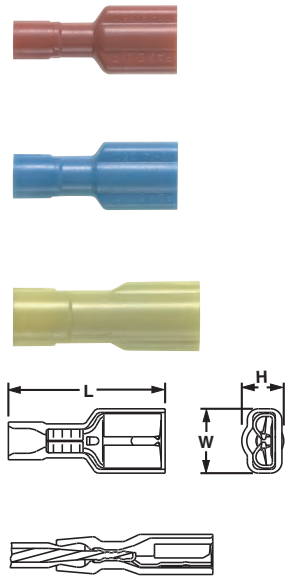
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DPF18-250FIM-L	22 – 18 AWG	Red	0.133	0.90	0.41	0.29	0.250 x 0.032	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	50	250
DPF14-250FIM-L	16 – 14 AWG	Blue	0.156	0.90	0.41	0.29				
DPF18-250FIMB-L*	22 – 18 AWG	Red	0.133	0.92	0.46	0.34	0.250 x 0.032		50	500
DPF14-250FIMB-Q*	16 – 14 AWG	Blue	0.156	0.92	0.46	0.34	0.250 x 0.032		25	125

*Oversized housing design will mate with receptacles up to 0.390" wide and 0.235" (0.285" high for parts with orientation bump).
**Bulk packaging may be available, contact Panduit® Customer Service for additional information. For crimping tool information see www.panduit.com/tools.

DiscoGrip™ Female Disconnect, Premium Nylon Fully Insulated – Funnel Entry

Type DPF-FIB

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DPF18-110FIB-C	22 – 18 AWG	Red	0.132	0.71	0.19	0.16	0.110 x 0.032	UP14ZLW‡, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DPF18-111FIB-C			0.132	0.71	0.19	0.16	0.110 x 0.020			
DPF18-205FIB-C			0.133	0.78	0.31	0.22	0.205/0.187 x 0.032			
DPF18-206FIB-C			0.133	0.78	0.31	0.22	0.205/0.187 x 0.020			
DPF18-250FIB-C			0.133	0.84	0.35	0.22	0.250 x 0.032			
DPF14-205FIB-C	16 – 14 AWG	Blue	0.156	0.78	0.31	0.22	0.205/0.187 x 0.032	UP14ZLW‡, CT-1525‡, CT-2500/L, CT-2300/ST	100	1000
DPF14-206FIB-C			0.156	0.78	0.31	0.22	0.205/0.187 x 0.020			
DPF14-250FIB-C			0.156	0.84	0.35	0.22	0.250 x 0.032			
DPF10-250FI-L*	12 – 10 AWG	Yellow	0.218	0.95	0.36	0.27	0.250 x 0.032	UP14ZLW, CT-1525, CT-2500/L, CT-2300/ST	50	500
DPF10-250FIB-L			0.220	0.96	0.35	0.23				

*Not UL listed or CSA approved.
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

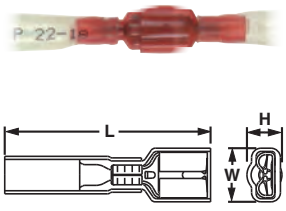
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Heat Shrink Disconnects, Fully Insulated – Funnel Entry

Type DNH

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Heat shrink sleeving forms a protective barrier to provide environmentally sealed terminations ideal for high moisture applications
- Heat shrink sleeving provides additional level of strain relief for the wire
- Minimum continuous operating temperature -65°F (-55°C)
- Maximum continuous operation temperature 230°F (110°C)
- Shrink temperature 300°F (150°C)
- Rated up to 600 V



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Type	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
DNH18-250FIM-Q	22 – 18 AWG	Red	0.133	1.50	0.41	0.31	Male	0.250 x 0.032	CT-310	25	125
DNH18-250FIB-Q			0.132	1.44	0.35	0.22	Female				
DNH14-250FIM-Q	16 – 14 AWG	Blue	0.158	1.50	0.41	0.31	Male				
DNH14-250FIB-Q			0.156	1.44	0.35	0.22	Female				
DNH10-250FI-E	12 – 10 AWG	Yellow	0.230	1.44	0.35	0.27	Female		CT-310	20	100

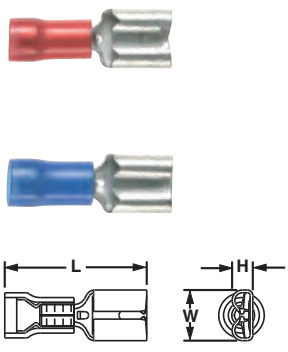
For crimping tool information see www.panduit.com/tools.

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Female Disconnect, Nylon Barrel Insulated – Funnel Entry

Type DNF

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 194°F (90°C)
- UL and CSA rated up to 300 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DNF18-110-C	22 – 18 AWG	Red	0.100	0.69	0.15	0.08	0.110 x 0.032	UP14ZLW‡, CT-1525‡, CT-2500/L, CT-2300/ST	100	500
DNF18-111-C			0.100	0.69	0.15	0.07	0.110 x 0.020			
DNF18-187-C			0.137	0.76	0.23	0.10	0.187 x 0.032	UP14ZLW‡, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	100	500
DNF18-188-C			0.137	0.76	0.23	0.10	0.187 x 0.020			
DNF18-205-C			0.137	0.76	0.25	0.12	0.205/0.187 x 0.032			
DNF18-206-C			0.137	0.76	0.25	0.12	0.205/0.187 x 0.020			
DNF18-250-C			0.138	0.81	0.29	0.12	0.250 x 0.032			
DNF14-110-C*	16 – 14 AWG	Blue	0.162	0.75	0.15	0.08	0.110 x 0.032	CT-1550, CT-2500/L, CT-2300/ST	100	500
DNF14-111-C*			0.162	0.75	0.15	0.07	0.110 x 0.020			
DNF14-187-C			0.162	0.76	0.23	0.10	0.187 x 0.032	UP14ZLW‡, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	100	500
DNF14-188-C			0.162	0.76	0.23	0.10	0.187 x 0.020			
DNF14-205-C			0.162	0.76	0.25	0.12	0.205/0.187 x 0.032			
DNF14-206-C			0.162	0.76	0.25	0.12	0.205/0.187 x 0.020			
DNF14-250-C			0.162	0.83	0.29	0.12	0.250 x 0.032			

*Not UL listed or CSA approved.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

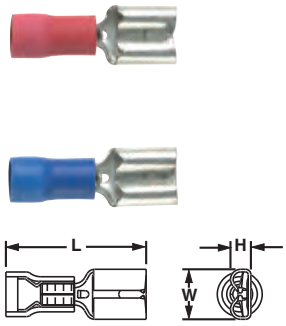
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Female Disconnect, Vinyl Barrel Insulated – Funnel Entry

LISTED CERTIFIED

Type DVF

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-0, maximum insulation temperature 194°F (90°C)
- UL and CSA rated up to 300 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DVF18-187-CY	22 – 18 AWG	Red	0.137	0.76	0.23	0.10	0.187 x 0.032	CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	100	1000
DVF18-188-CY			0.137	0.76	0.23	0.10	0.187 x 0.020		100	500
DVF18-205-CY			0.137	0.76	0.25	0.12	0.205/0.187 x 0.032			
DVF18-206-CY			0.137	0.76	0.25	0.12	0.205/0.187 x 0.020			
DVF18-250-CY			0.137	0.81	0.29	0.12	0.250 x 0.032			
DVF14-187-C	16 – 14 AWG	Blue	0.162	0.76	0.23	0.10	0.187 x 0.032	CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	100	
DVF14-188-C			0.162	0.76	0.23	0.10	0.187 x 0.020			
DVF14-205-C			0.162	0.76	0.25	0.12	0.205/0.187 x 0.032			
DVF14-206-C			0.162	0.76	0.25	0.12	0.205/0.187 x 0.020			
DVF14-250-C			0.162	0.81	0.29	0.12	0.250 x 0.032			

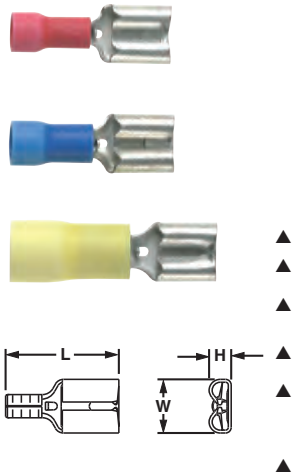
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Female Disconnect, Vinyl Barrel Insulated – Butted Seam

LISTED CERTIFIED

Type DV-B

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DV18-187B-CY	22 – 18 AWG	Red	0.150	0.75	0.23	0.10	0.187 x 0.032	CT-1525‡, CT-2500/L, CT-2300/ST	100	500
DV18-188B-CY			0.150	0.76	0.23	0.10	0.187 x 0.020			
DV18-205B-CY			0.150	0.75	0.25	0.12	0.187/0.205 x 0.032			
DV18-206B-CY			0.150	0.75	0.25	0.12	0.187/0.205 x 0.020			
DV18-250B-CY			0.150	0.81	0.29	0.12	0.250 x 0.032			
▲ DV14-187B-C	16 – 14 AWG	Blue	0.170	0.75	0.23	0.10	0.187 x 0.032	CT-1525^, CT-2500/L, CT-2300/ST	100	500
▲ DV14-188B-C			0.162	0.79	0.23	0.10	0.187 x 0.020			
▲ DV14-205B-C			0.170	0.75	0.25	0.12	0.187/0.205 x 0.032			
▲ DV14-206B-C			0.170	0.75	0.25	0.12	0.187/0.205 x 0.020			
▲ DV14-250B-C			0.170	0.81	0.29	0.12	0.250 x 0.032			
▲ DV10-250-L*	12 – 10 AWG	Yellow	0.229	1.03	0.30	0.13	0.250 x 0.032	UP14ZLW, CT-1550^, CT-1551^, CT-2500/L, CT-2300/ST	50	500

*Sleeved barrel, maximum insulation temperature 194°F (90°C).
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.
^CSA approved tooling/product combinations.
▲UL Recognized only.

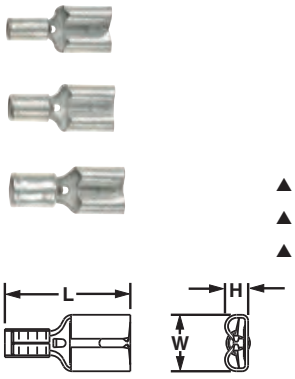
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Female Disconnect, Non-Insulated – Metal Sleeve

Type D

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Sleeved barrel helps to facilitate high mechanical and electrical performance when crimping
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 310



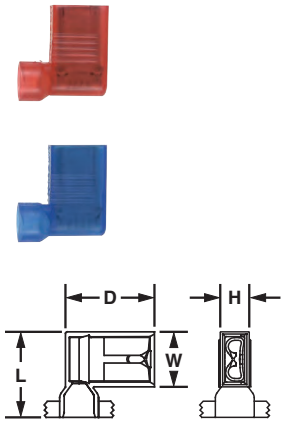
Part Number	Wire Range	Figure Dimensions (In.) L	W	C	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
D18-187-C	22 – 18 AWG	0.58	0.23	0.10	0.187 x 0.032	CT-100A‡, CT-200‡, CT-1570‡, CT-2500/L, CT-2300/ST	100	500
D18-188-C		0.58	0.23	0.10	0.187 x 0.020			
D18-250-C		0.66	0.30	0.12	0.250 x 0.032			
▲ D14-187-C	16 – 14 AWG	0.58	0.23	0.10	0.187 x 0.032	CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST	100	
▲ D14-188-C		0.58	0.23	0.10	0.187 x 0.020			
▲ D14-250-C		0.66	0.30	0.12	0.250 x 0.032			
D10-250-L	12 – 10 AWG	0.72	0.30	0.12	0.250 x 0.032	UP14ZLW‡, CT1570‡, CT-1701‡, CT-2500/L, CT-2300/ST	50	

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.
▲UL Recognized only.

Right Angle Female Disconnect, Nylon Fully Insulated – Funnel Entry

Type DNFR-FIB

- Right angle design for use in limited space applications
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	H	D	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DNFR18-205FIB-L	22 – 18 AWG	Red	0.178	0.58	0.37	0.21	0.60	0.205/0.187 x 0.032	CT-300-1	50	250
DNFR18-206FIB-L			0.178	0.58	0.37	0.21	0.60	0.205/0.187 x 0.020			
DNFR18-250FIB-L			0.178	0.58	0.37	0.21	0.60	0.250 x 0.032			
DNFR14-205FIB-L	16 – 14 AWG	Blue	0.178	0.58	0.37	0.21	0.60	0.205/0.187 x 0.032	CT-300-1	50	250
DNFR14-206FIB-L			0.178	0.58	0.37	0.21	0.60	0.205/0.187 x 0.020			
DNFR14-250FIB-L			0.178	0.58	0.37	0.21	0.60	0.250 x 0.032			

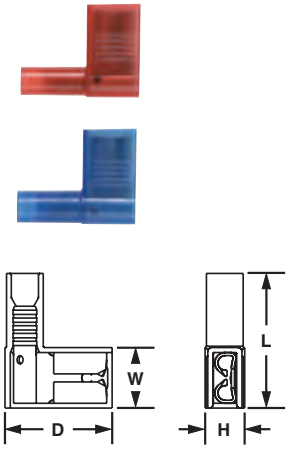
**Bulk packaging may be available, contact Panduit Customer Service for additional information. For crimping tool information see www.panduit.com/tools.

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Right Angle Female Disconnect, Nylon Insulated – Funnel Entry

Type DNFR-B

- Right angle design for use in limited space applications
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Longer barrel design for use with Panduit® standard disconnect tool
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310



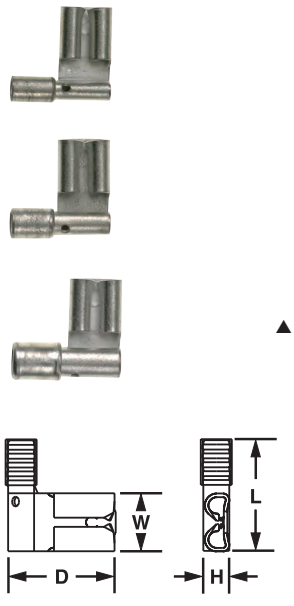
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	W	H	D	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
DNFR18-205B-L	22 – 18 AWG	Red	0.130	0.78	0.36	0.20	0.62	0.205/0.187 x 0.032	CT-1525‡, CT-2500/L, CT-2300/ST	50	500
DNFR18-206B-L			0.130	0.78	0.36	0.20	0.62	0.205/0.187 x 0.020			
DNFR18-250B-L			0.130	0.78	0.36	0.20	0.62	0.250 x 0.032			
DNFR14-205B-L	16 – 14 AWG	Blue	0.155	0.78	0.36	0.20	0.63	0.205/0.187 x 0.032	CT-1525‡, CT-2500/L, CT-2300/ST	50	500
DNFR14-206B-L			0.155	0.78	0.36	0.20	0.63	0.205/0.187 x 0.020			
DNFR14-250B-L			0.155	0.78	0.36	0.20	0.63	0.250 x 0.032			

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Right Angle Female Disconnect, Non-Insulated – Metal Sleeve

Type DR

- Right angle design for use in limited space applications
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Sleeved barrel helps to facilitate high mechanical and electrical performance when crimping
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 310



Part Number	Wire Range	Figure Dimensions (In.) L	W	H	D	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
DR18-205-C	22 – 18 AWG	0.54	0.25	0.12	0.53	0.205/0.187 x 0.032	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L, CT-2300/ST	100	1000
DR18-206-C		0.54	0.25	0.12	0.53	0.205/0.187 x 0.020			
DR18-250-C		0.57	0.30	0.12	0.54	0.250 x 0.032			
DR14-205-C	16 – 14 AWG	0.54	0.25	0.12	0.55	0.205/0.187 x 0.032	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-2500/L, CT-2300/ST	100	1000
DR14-206-C		0.54	0.25	0.12	0.55	0.205/0.187 x 0.020			
▲DR14-250-C		0.57	0.30	0.12	0.55	0.250 x 0.032			
DR10-250-L	12 – 10 AWG	0.61	0.30	0.12	0.57	0.250 x 0.032	CT-100A‡, CT-200‡, UP14ZLW‡, CT-1570‡, CT-1701‡, CT-2500/L, CT-2300/ST	50	500

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.
▲UL Recognized only.

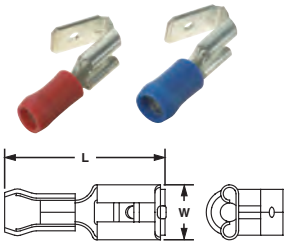
Order number of pieces required, in multiples of Standard Package Quantity.

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Piggyback Disconnect, Vinyl Insulated

Type DV-P

- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Combination of female disconnect and male tab allows versatility in points of connection
- Multiple connection points allow additional circuits to be added to existing equipment without expensive rework
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- UL Flammability UL 94 HB, maximum insulation temperature 194°F (90°C)
- Rated up to 300 V



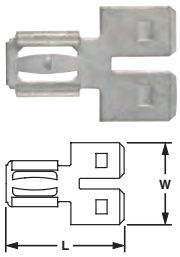
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.)		Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L	W				
DV18-250P-LY	22 – 18 AWG	Red	0.130	0.88	0.29	0.250 x 0.032	CT-100A, CT-260, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	50	250
DV14-250P-L	16 – 14 AWG	Blue	0.160	0.88	0.29				

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Disconnect Adapter, Non-Insulated

Type D-A

- Couples two female disconnects to one male disconnect (all 0.250 x 0.032)
- Multiple connection points allow additional circuits to be added to existing equipment without expensive rework
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Maximum recommended operating temperature 302°F (150°C)
- Rated up to 2000 V



Part Number	Figure Dimensions (In.)		Tab Size (In.)	Std. Pkg. Qty.**	Std. Ctn. Qty.
	L	W			
D-250A-C	0.82	0.57	0.250 x 0.032	100	1000

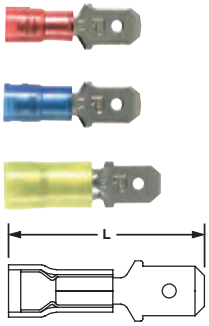
**Bulk packaging may be available, contact Panduit Customer Service for additional information.

LISTED CERTIFIED

Male Disconnect, Nylon Barrel Insulated – Funnel Entry

Type DNF-M

- Male tab couples with (all 0.250 x 0.032) female disconnects
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- Rated up to 600 V



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.)	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L				
DNF18-250M-C	22 – 18 AWG	Red	0.136	0.90	0.250 x 0.032	CT-1550, CT-1551, CT-2500/L, CT-2300/ST	100	1000
DNF14-250M-C	16 – 14 AWG	Blue	0.162	0.90				
DNF10-250M-L*	12 – 10 AWG	Yellow	0.230	1.03			50	500

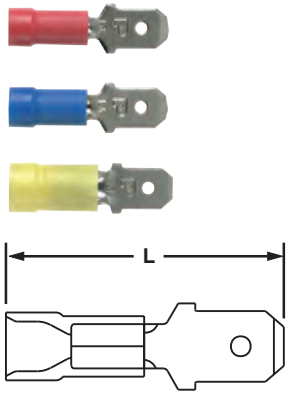
*Not UL Listed or CSA Certified.
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

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Male Disconnect, Vinyl Barrel Insulated – Funnel Entry

Type DV-MB

- Male tab couples with (all 0.250 x 0.032) female disconnects
- Insulation support helps to prevent wire damage in bending applications
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- Rated up to 600 V



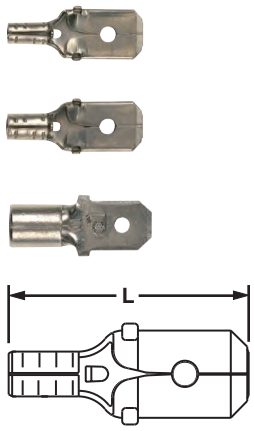
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
DV18-250MB-CY	22 – 18 AWG	Red	0.154	0.98	0.250 x 0.032	CT-1550, CT-1551, CT-2500/L, CT-2300/ST	100	500
DV14-250MB-C	16 – 14 AWG	Blue	0.180	0.96				
DV10-250M-L*	12 – 10 AWG	Yellow	0.235	0.98			50	500

*Not UL Listed or CSA Certified.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Male Disconnect, Non-Insulated – Butted Seam

Type D-MB

- Male tab couples with (all 0.250 x 0.032) female disconnects
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- Rated up to 2000 V



Part Number	Wire Range	Figure Dimensions (In.) L	Tab Size (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
D18-250MB-C	22 – 18 AWG	0.69	0.250 x 0.032	CT-100A	100	500
D14-250MB-C	16 – 14 AWG	0.69				
D10-250M-L*	12 – 10 AWG	0.72	0.250 x 0.032	CT-100A, CT-200, CT-260, CT-1570, CT-2500/L, CT-2300/ST	50	500

*Brazed seam.
**To order in bulk, replace -C in the part number with -M for a bulk package of 1000 and replace -L with -D for a bulk package of 500.
For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Selection Guide – Specialty Terminals

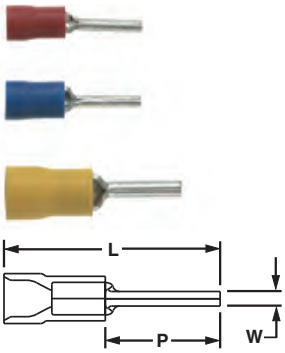


Material	Style	Feature	Type	Page Number
Specialty				
Vinyl	Pin Terminal	Insulation Support	PV-P	D1.45
Non-Insulated	Pin Terminal	Brazed Seam	P-P	D1.45

Pin Terminal, Vinyl Insulated – Funnel Entry

Type PV-P

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- For use with pin-type terminal blocks
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL rated up to 600 V per UL 486A/B



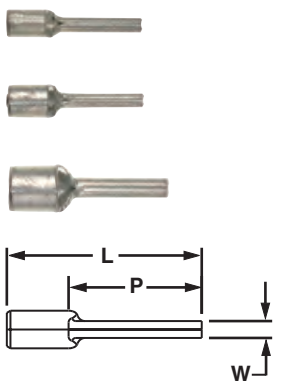
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.)			Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L	W	P			
PV18-P47-CY	22 – 18 AWG	Red	0.150	0.97	0.07	0.49	CT-100A, CT-260, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	100	1000
PV14-P47-C	16 – 14 AWG	Blue	0.170	0.97	0.07	0.49			
PV10-P55-LY*	12 – 10 AWG	Yellow	0.250	1.10	0.10	0.55		50	500

*Not UL Listed.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Pin Terminal, Non-Insulated

Type P-P

- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- For use with pin-type terminal blocks
- Maximum recommended operating temperature 302°F (150°C)
- UL rated up to 2000 V per UL 486A/B



Part Number	Wire Range	Figure Dimensions (In.)			Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
		L	W	P			
P18-P47-C	22 – 18 AWG	0.75	0.07	0.49	CT-100A, CT-200, CT-260, CT-1570, CT-2500/L, CT-2300/ST	100	1000
P14-P47-C	16 – 14 AWG	0.75	0.07	0.49			
P10-P55-L*	12 – 10 AWG	0.79	0.10	0.55	CT-100A, CT-200, CT-260, CT-1570, CT-2500/L, CT-2300/ST	50	500

*Not UL Listed.
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

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Notes

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Splices

Panduit® Pan-Term® Splices are designed and manufactured for fast assembly, and long reliable performance. As the demand for splices increases, it becomes essential to provide a complete system for termination products. We provide an extensive line of tooling designed specifically to provide optimum performance when used as a system for terminating.

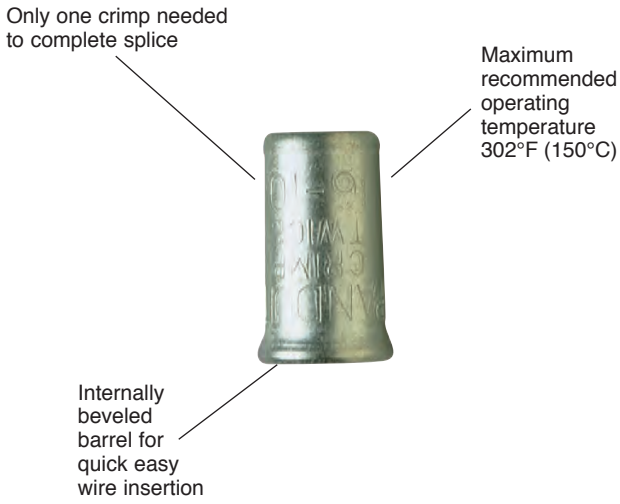
- **Suitable for in-line, parallel, and group splicing of wires**
- **Nylon and vinyl insulated as well as non-insulated**
- **Available in sizes from #26 – 10 AWG**
- **Internal wire stops on butt splices prevent over insertion of wires**
- **Applicable sizes are UL Listed and CSA Certified, as noted**
- **Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools for reliable connections at the lowest installed cost**

Panduit continually provides new designs to meet the application challenges encountered by our customers. Panduit offers a wide assortment of Pan-Term® Termination products to meet customer needs at the lowest installed cost.

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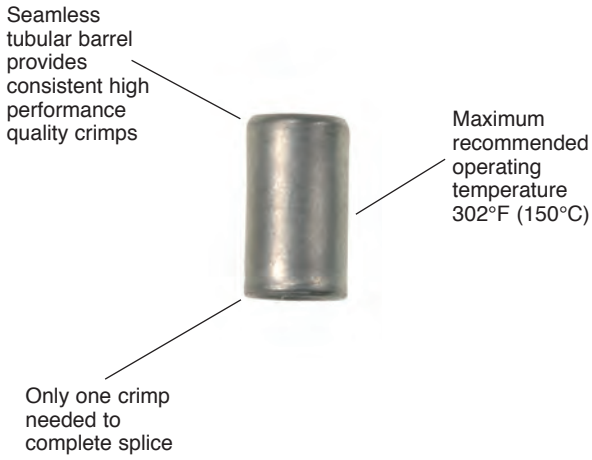
Features and Benefits – Pan-Term® Splices and Wire Joints

Non-Insulated Wire Joints Type J



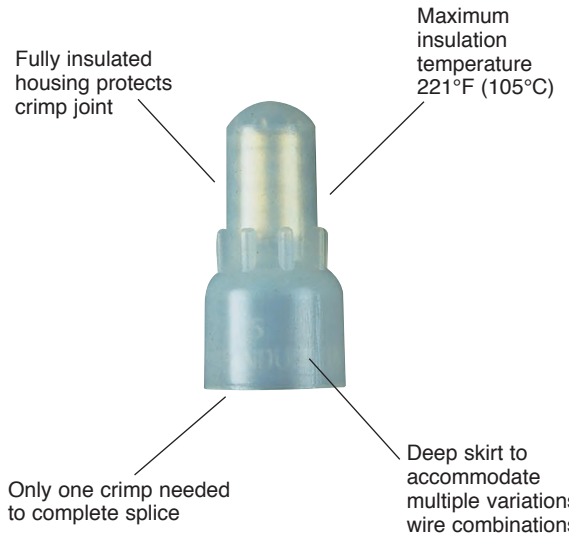
UL and CSA rated up to 2000 V per UL 486C.

Non-Insulated Parallel Splices Type PS



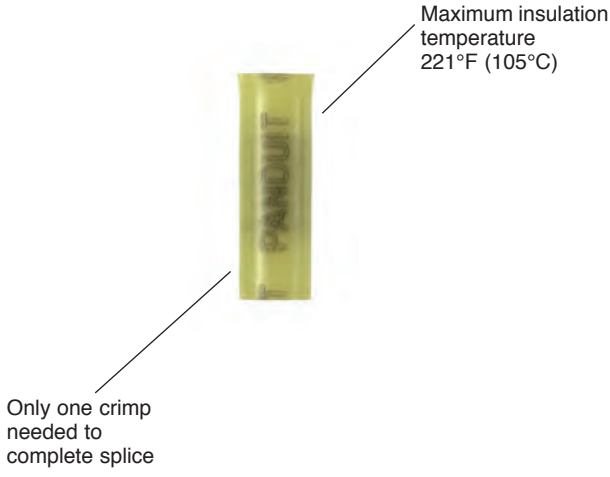
UL and CSA rated up to 2000 V per UL 486C.

Nylon Wire Joints Type JN



UL and CSA rated up to 600 V per UL 486C.
Metric versions available.
Flammability – UL 94 HB.

Nylon Parallel Splices Type PSN



Rated up to 300 V.
Flammability – UL 94 HB.



Panduit® designs and manufactures a full line of labeling products, software, and printers to assist you with your labeling requirements.

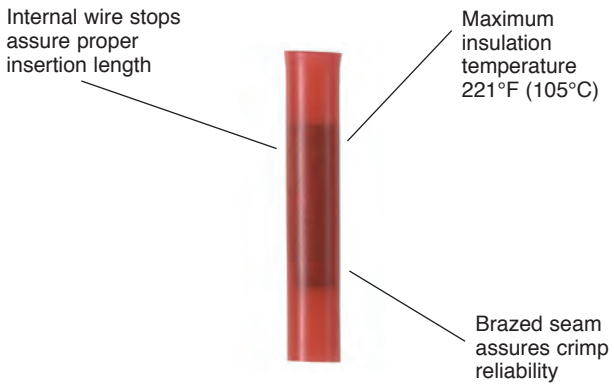
See pages E1.1 – E2.29.

Order number of pieces required, in multiples of Standard Package Quantity.

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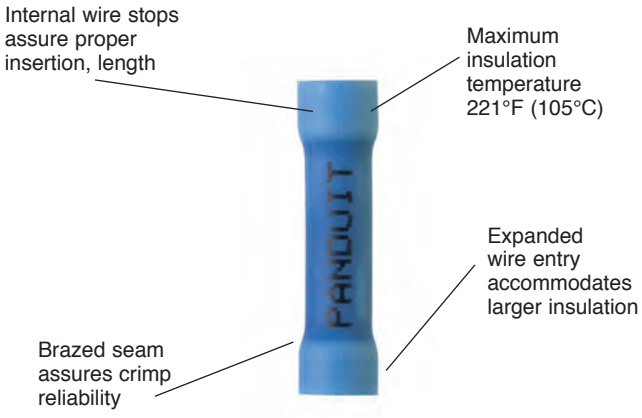
Features and Benefits – Pan-Term® Splices

Nylon Butt Splices Type BSN



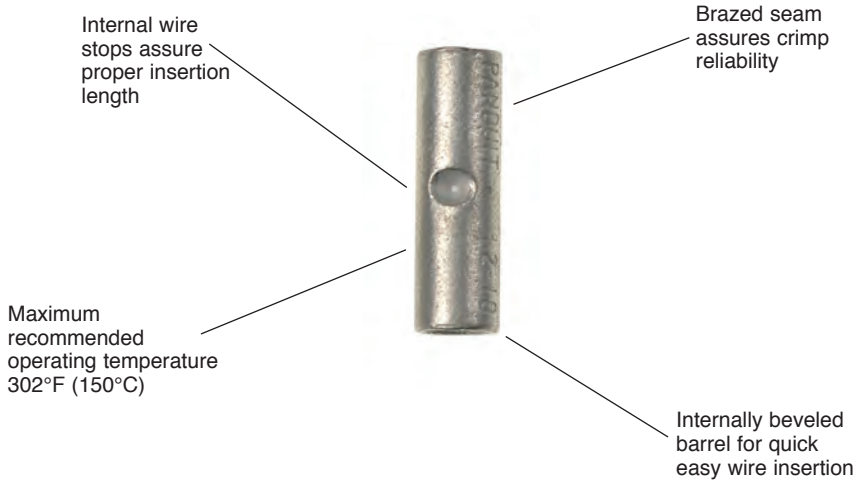
UL and CSA rated up to 600 V per UL 486C.
Flammability – UL 94 HB.

Vinyl Butt Splices Type BSV



UL and CSA rated up to 600 V per UL 486C.
Flammability – UL 94V-0.
Metric versions available.

Non-Insulated Butt Splices Type BS



UL and CSA rated up to 2000 V per UL 486C.
Metric versions available.



Panduit wiring duct offers a wide variety of sizes and types to meet the wire capacity needs and space constraints of the smallest wall mounted to the largest integrated systems.

See pages C1.1 – C1.53.



A comprehensive selection of cable ties used to bundle, mount, and identify wire and cable.

See pages B1.1 – B1.106.

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Selection Guide – Pan-Term® Splices and Wire Joints



Splices and Wire Joints

Material	Style	Feature	Type	Page Number
Nylon	Butt Splice	Brazed Seam	BSN	D1.51
	Parallel Splice	Seamless Barrel	PSN	D1.52
	Wire Joint	Multiple Wire Connector	JN	D1.53
Vinyl	Butt Splice	Expanded Insulation	BSV	D1.51
Heat Shrink	Butt Splice	Heat Shrink Insulation	BSH	D1.54
Non-Insulated	Butt Splice	Brazed Seam	BS	D1.52
	Parallel Splice	Seamless Barrel	PS	D1.53
	Wire Joint		J	D1.54

Part Number System for Pan-Term® Splices

BS — **Type**
BS = Butt Splice
PS = Parallel Splice

V — **Insulation**
H = Heat Shrink
N = Nylon
V = Vinyl
= Non-Insulated (leave blank)

14 — **Wire Range**
22 = #26 – 22
18 = #22 – 18
14 = #16 – 14
13 = #14 – 12
10 = #12 – 10

X — **Special Configuration**
X = Expanded Insulation

—

M — **Std. Pkg. Size**
Q = 25
L = 50
C = 100
T = 200
D = 500
M = 1000

Part Number System for Pan-Term® Wire Joints

JN — **Type**
J = Non-Insulated
JN = Nylon-Insulated

418-212 — **Wire Range**
J Types
214 – 312 = (2) #14 – (3) #12
318 – 412 = (3) #14 – (4) #12
216 – 410 = (2) #16 – (4) #10
JN Types
224 – 318 = (2) #24 – (3) #18
218 – 216 = (2) #18 – (2) #16
418 – 212 = (4) #18 – (2) #12
314 – 412 = (3) #14 – (4) #12

—

C — **Std. Pkg. Size**
Q = 25
L = 50
C = 100
T = 200
D = 500
M = 1000

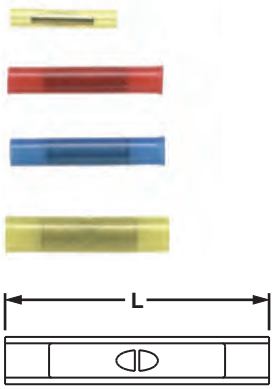
Order number of pieces required, in multiples of Standard Package Quantity.

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Butt Splice, Nylon Insulated

Type BSN

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Butted configuration provides low profile for limited space applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal wire stop assures proper length of insertion into terminal barrel
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486C



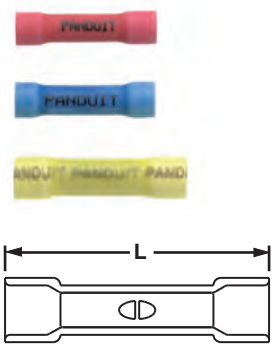
Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
BSN22-C*	26 – 22 AWG	Yellow	0.080	0.79	CT-1525, CT-2500/L, CT-2300/ST	100	1000
BSN18-C	22 – 18 AWG	Red	0.115	1.15	CT-100A, UP14ZLW, CT-1550, CT-1551, CT-2500/L, CT-2300/ST		
BSN14-C	16 – 14 AWG	Blue	0.148	1.15	CT-100A, UP14ZLW, CT-1550, CT-1551, CT-2500/L, CT-2300/ST		
BSN10-L	12 – 10 AWG	Yellow	0.210	1.14	CT-100A, UP14ZLW, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	50	500

*Not UL or CSA Listed.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Butt Splice, Vinyl Insulated

Type BSV

- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal wire stop assures proper length of insertion into terminal barrel
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486C



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
BSV18X-LY	22 – 18 AWG	Red	0.170	1.03	CT-100A, UP14ZLW, CT-1550, CT-1551, CT-2500/L, CT-2300/ST	50	500
BSV14X-L	16 – 14 AWG	Blue	0.200	1.04			
BSV10X-Q	12 – 10 AWG	Yellow	0.250	1.18		25	250

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

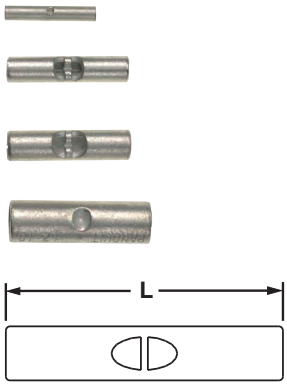
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Butt Splice, Non-Insulated

LISTED CERTIFIED

Type BS

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Butted configuration provides low profile for limited space applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal wire stop assures proper length of insertion into terminal barrel
- Non-insulated barrel can be used to provide an economical termination when insulation is not required
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486C



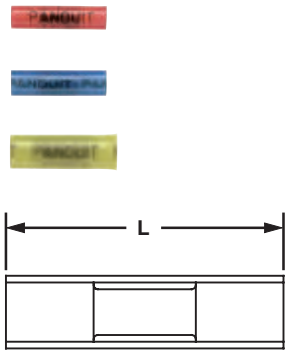
Part Number	Wire Range	Figure Dimensions (In.) L	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
BS22-C*	26 – 22 AWG	0.47	CT-100A	100	1000
BS18-C	22 – 18 AWG	0.62	CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST	100	1000
BS14-C	16 – 14 AWG		CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST		
BS10-L	12 – 10 AWG	0.63	CT-100A, CT-200, UP14ZLW, CT-1570, CT-2500/L, CT-2300/ST, CT-1701‡	50	500

*Not UL or CSA Listed.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Parallel Splice, Nylon Insulated

Type PSN

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Parallel design results in only one crimp required to complete splice
- Seamless tubular barrel provides a consistent high performance quality crimp
- Maximum insulation temperature 221°F (105°C)
- Rated up to 300 V



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.) L	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PSN18-C	22 – 18 AWG	Red	0.120	0.75	5/16	CT-100A, CT-1525, CT-2500/L, CT-2300/ST	100	500
PSN16-C	20 – 16 AWG	Blue	0.150	0.75	5/16			
PSN12-L	14 – 12 AWG	Yellow	0.210	0.83	7/16	CT-100A	50	

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

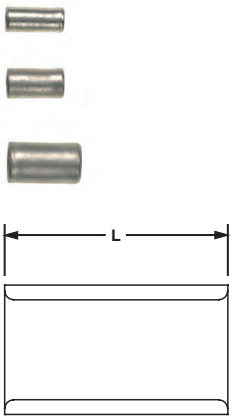
Order number of pieces required, in multiples of Standard Package Quantity.

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Parallel Splice, Non-Insulated

Type PS

- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Parallel design results in only one crimp required to complete splice
- Seamless tubular barrel provides a consistent high performance quality crimp
- Non-insulated barrel can be used to provide an economical termination when insulation is not required
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486C



Part Number	Wire Range	Figure Dimensions (In.) L	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PS18-C	22 – 18 AWG	0.29	5/16	CT-100A, CT-200	100	500
PS16-C	20 – 16 AWG	0.29	5/16			
PS12-L	14 – 12 AWG	0.38	7/16		50	500

**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Wire Joint, Nylon Insulated

Type JN

- Large barrel, designed to accommodate from one to seven wires with just one crimp
- Accommodates multiple wire sizes in varying combinations
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486C



Part Number	Wire Range	Color Code	CMA Range Min.	CMA Range Max.	Figure Dimensions (In.) L	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
JN224-318-C	(2) #24 – (2) #16	Red	808	5160	0.79	7/16	CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST	100	1000
JN218-216-C	(2) #22 – (2) #16	Clear	1284	5160	0.78	7/16	CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST		
JN418-212-C	(4) #18 – (2) #12	Clear	6480	14750	0.93	1/2	CT-100A‡, CT-1550‡, CT-1551‡, CT-2500/L, CT-2300/ST		
JN314-412-C*	(3) #14 – (4) #12	Clear	10320	26120	0.97	5/8	CT-100A, CT-160, CT-260		

*Not UL or CSA Listed.
**Bulk packaging may be available, contact Panduit Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.
Note: Wire combinations using #24 AWG wire are not UL Listed or CSA Certified.

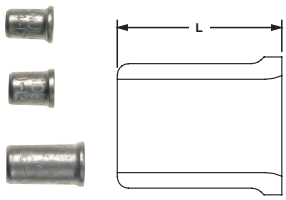
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Wire Joint, Non-Insulated

LISTED CERTIFIED

Type J

- Large barrel, designed to accommodate from one to seven wires with just one crimp
- Accommodates multiple wire sizes in varying combinations
- Non-insulated barrel can be used to provide an economical termination when insulation is not required
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Maximum recommended operating temperature 302°F (150°C)
- UL and CSA rated up to 2000 V per UL 486C



Part Number	Wire Range	CMA Range		Figure Dimensions (In.)	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
		Min.	Max.	L				
J214-312-T	(2) #14 – (3) #12	5760	19590	0.37	1/2	CT-100A‡, CT-200‡	200	2000
J318-412-T	(3) #18 – (4) #12	4860	27330	0.37	1/2	CT-100A‡, CT-200‡		
J216-410-L*	(2) #16 – (4) #10	5160	41600	0.62	3/4	CT-100A‡, CT-200‡	50	500

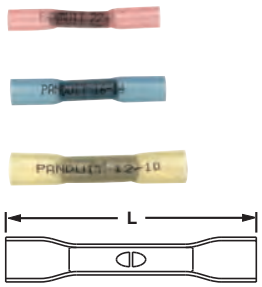
*Part number J216-410, is not UL Listed or CSA Certified.
**Bulk packaging may be available, contact Panduit® Customer Service for additional information.
‡UL and CSA approved tooling/product combinations. For crimping tool information see www.panduit.com/tools.

Heat Shrink, Butt Splices

LISTED CERTIFIED

Type BSH

- Designed to splice two stranded wires together to repair or lengthen wires
- Butted configuration provides low profile for limited space applications
- Heat shrink polyolefin sleeve with hot melt adhesive protects against moisture
- After crimping, heat shrink insulation is completed with a standard heat gun
- Minimum continuous operating temperature -65°F (-55°C)
- Maximum continuous operation temperature 230°F (110°C)
- Shrink temperature 300°F (150°C)
- UL and CSA rated up to 600 V per UL 486C



Part Number	Wire Range	Color Code	Max. Ins. (In.)	Figure Dimensions (In.)	Wire Strip Length (In.)	Recommended Installation Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
				L				
BSH18-Q	22 – 18 AWG	Red	0.170	1.45	5/16	CT-310	25	125
BSH14-Q	16 – 14 AWG	Blue	0.190	1.45	5/16			
BSH10-E	12 – 10 AWG	Yellow	0.240	1.64	5/16		20	100

**Bulk packaging may be available, contact Panduit Customer Service for additional information.
For crimping tool information see www.panduit.com/tools.

Order number of pieces required, in multiples of Standard Package Quantity.

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Ferrules



Panduit® Pan-Term® Ferrule End Sleeves terminate stranded wire into terminal blocks with superior termination performance. A wide assortment of ferrule styles and tool designs provide a proven way to make reliable connections, especially for limited space applications. Insulation flare allows for ease of wire insertion and eliminates loose strands of wire. Encapsulated crimp contains loose wires to eliminate stray wire breakage.



- **Ferrules are UL 486F (1/0-20 AWG) listed and CSA certified**
- **Ideal for control panel and terminal block applications**
- **Insulated single wire range of #26 – 300 kcmil sizes meets DIN color code standards**
- **Insulated twin wire end sleeve range of #22 – 6 AWG, sizes meets DIN color code standard**
- **Non-insulated wire range of #24 – 400 kcmil**
- **Insulated ferrules single wire range #20 – 14 AWG, available in strips of 50 for use with the semiautomatic ferrule crimping tool, CT-1000, for improved reliability and productivity**
- **Wide assortment of controlled cycle, crimping tools for reliable connections at the lowest installed cost**





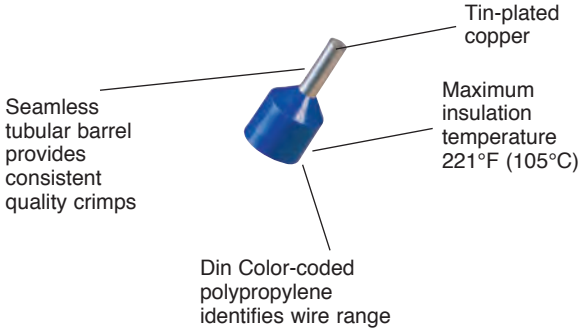
Panduit continually provides new designs to meet the application challenges encountered by our customers. Panduit offers a wide assortment of Pan-Term® Termination products to meet customer needs at the lowest installed cost.

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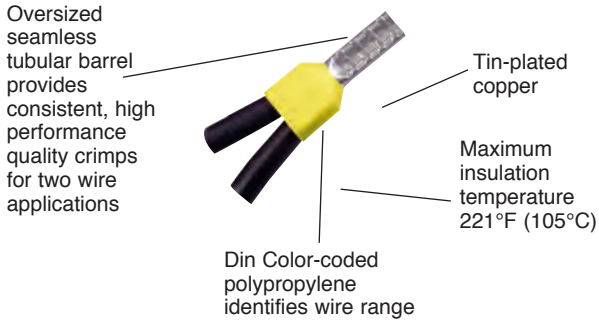
Features and Benefits – Pan-Term® Ferrules

Panduit® ferrules are available for wiring applications from #26 – 400 kcmil. Offerings include insulated and non-insulated ferrules, in single-wire or double-wire configurations. Insulated ferrules are color-coded to DIN standards. Crimped on the metal barrel these ferrules provide improved performance for terminal block and panel building applications. All Panduit ferrules are CSA Certified. Panduit 1/0 to 20 AWG ferrules are UL listed per UL486F Standard.

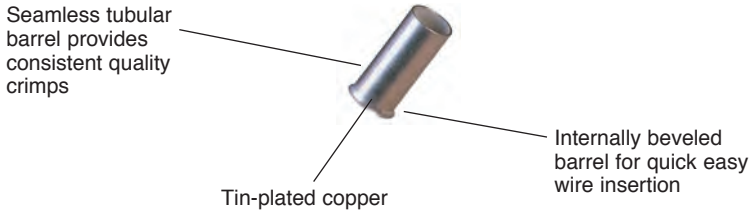
Insulated Ferrules — Single Wire Type FSD



Insulated Ferrules — Twin Wire Type FTD



Non-Insulated Ferrules Type F





Panduit designs and manufactures a full line of labeling products, software, and printers to assist you with your labeling requirements.

See pages E1.1 – E2.29.

Order number of pieces required, in multiples of Standard Package Quantity.

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Selection Guide – Pan-Term® Ferrules



Material	Style	Feature	Type	Page Number
Ferrules				
Polypropylene	Ferrules, Single Wire	DIN Color Code	FSD	D1.57
	Ferrules, Single Wire	On Strips	FSD	D1.61
	Ferrules, Twin Wire	DIN Color Code	FTD	D1.61
Non-Insulated	Ferrules	Seamless Tube	F	D1.62, D1.63

Part Number System for Pan-Term® Ferrules

F	S	D	72	–	8
Type	Wire Type	Color Code	Wire Size		PIN Length

F = Ferrule

S = Single
T = Twin
Blank = Non-Insulated

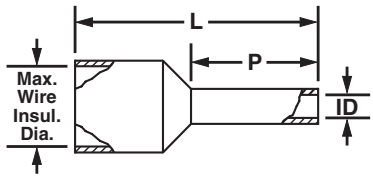
D = DIN

Insulated Ferrules – Single Wire DIN End Sleeve

Type FSD

- Polypropylene insulation housing conforms to DIN color requirements
- Meets DIN standards for single wire containment
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Eases insertion of wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks





Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FSD72-6-D***	26 AWG	0.14	Gray	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5	CT-1002, CT-1123, CT-2523CH	500
FSD72-8-D***				0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		
FSD73-6-D***	24 AWG	0.25	Yellow	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5		
FSD73-8-D***				0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		
FSD74-6-D***	24-22 AWG	0.34	Turquoise	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5		
FSD74-8-D***				0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		

***Not UL or CSA Listed.

Continued on next page

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Insulated Ferrules – Single Wire DIN End Sleeve (continued)

Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FSD75-6-D*	22-20 AWG	0.5	White	0.09	2.5	0.45	11.5	24.0	6.0	0.04	1.1	17/32	13.5	CT-1090, CT-1002, CT-1003, CT-1123, CT-1160, CT-1170, CD-090***, CT-2523CH	500
FSD75-8-D*		0.5		0.09	2.5	0.53	13.5	31.0	8.0	0.04	1.1	15/32	11.9		
FSD75-10-D*		0.5		0.09	2.5	0.61	15.5	0.39	10.0	0.04	1.1	17/32	13.5		
FSD76-6-D	18 AWG	0.75	Gray	0.11	2.8	0.47	12.0	0.24	6.0	0.05	1.3	3/8	9.5		
FSD76-8-D		0.75		0.11	2.8	0.55	14.0	0.31	8.0	0.05	1.3	15/32	11.9		
FSD76-10-D		0.75		0.11	2.8	0.63	16.0	0.39	10.0	0.05	1.3	17/32	13.5		
FSD76-12-D		0.75		0.11	2.8	0.71	18.0	0.47	12.0	0.05	1.3	5/8	15.9		
FSD77-6-D	–	1.0	Red	0.12	3.0	0.49	12.5	0.24	6.0	0.06	1.5	3/8	9.5		
FSD77-8-D		1.0		0.12	3.0	0.57	14.5	0.31	8.0	0.06	1.5	15/32	11.9		
FSD77-10-D		1.0		0.12	3.0	0.65	16.5	0.39	10.0	0.06	1.5	17/32	13.5		
FSD77-12-D		1.0		0.12	3.0	0.73	18.5	0.47	12.0	0.06	1.5	5/8	15.9		
FSD78-6-D	16 AWG	1.5	Black	0.12	3.0	0.49	12.5	0.24	6.0	0.07	1.8	3/8	9.5		
FSD78-8-D		1.5		0.12	3.0	0.57	14.5	0.31	8.0	0.07	1.8	15/32	11.9		
FSD78-6-D		1.5		0.12	3.0	0.49	12.5	0.24	6.0	0.07	1.8	3/8	9.5		
FSD78-10-D		1.5		0.12	3.0	0.65	16.5	0.39	10.0	0.07	1.8	17/32	13.5		
FSD78-12-D		1.5		0.12	3.0	0.73	18.5	0.47	12.0	0.07	1.8	5/8	15.9		
FSD78-18-D		1.5		0.12	3.0	0.96	24.5	0.71	18.0	0.07	1.8	7/8	22.2		
FSD79-8-D	14 AWG	2.08	Yellow	0.14	3.6	0.57	14.5	0.31	8.0	0.08	2.1	15/32	11.9	CT-1090, CT-1002, CT-1003, CT-1123, CT-1160, CT-1170, CD-090***, CT-2523CH	500
FSD80-8-D		2.5	Blue	0.17	4.2	0.59	15.0	0.31	8.0	0.09	2.3	15/32	11.9		
FSD80-12-D				0.17	4.2	0.75	19.0	0.47	12.0	0.09	2.3	5/8	15.9		
FSD80-18-D				0.17	4.2	0.98	25.0	0.71	18.0	0.09	2.3	7/8	22.2		
FSD81-10-D	12 AWG	4.0	Gray	0.19	4.8	0.69	17.5	0.39	10.0	0.11	2.9	17/32	13.5		
FSD81-12-C				0.19	4.8	0.79	20.0	0.47	12.0	0.11	2.9	5/8	15.9		100
FSD81-18-C				0.19	4.8	1.02	26.0	0.71	18.0	0.11	2.9	7/8	22.2		100
FSD82-12-C	10 AWG	6.0	Yellow	0.24	6.2	0.79	20.0	0.47	12.0	0.14	3.6	5/8	15.9	CT-1090, CT-1002, CT-1123, ‡CT-1003, CT-1160, CT-1170, CD-090***, CT-2523CH	100
FSD82-18-C	10 AWG	6.0	Yellow	0.24	6.2	1.02	26.0	0.71	18.0	0.14	3.6	7/8	22.2		
FSD83-12-C	8 AWG	10.0	Red	0.30	7.5	0.83	21.0	0.47	12.0	0.18	4.6	5/8	15.9	‡CT-1003, ‡CT-1004, CT-1123, CT-1104, CT-1160, CT-1170, CD-090***, CT-1090, CT-2504CH, CT-2523CH	
FSD83-18-C	8 AWG	10.0	Red	0.30	7.5	1.06	27.0	0.71	18.0	0.18	4.6	7/8	22.2		
FSD84-12-C	6 AWG	16.0	Blue	0.35	8.8	0.91	23.0	0.47	12.0	0.24	6.0	5/8	15.9	‡CT-1004, CT-1104, CT-2504CH	
FSD84-18-C	6 AWG	16.0	Blue	0.35	8.8	1.14	29.0	0.71	18.0	0.24	6.0	7/8	22.2		
FSD85-16-L	4 AWG	25.0	Yellow	0.43	11.0	1.14	29.0	0.63	16.0	0.30	7.5	3/4	15.9	CT-1005	50
FSD85-18-L						1.22	31.0	0.71	18.0	0.30	7.5	7/8	22.2		
FSD85-22-L						1.38	35.0	0.87	22.0	0.30	7.5	1	25.4		
FSD86-16-L	2 AWG	35.0	Red	0.49	12.5	1.18	30.0	0.63	16.0	0.33	8.5	3/4	19.1		
FSD86-18-L						1.26	32.0	0.71	18.0	0.33	8.5	7/8	22.2		
FSD86-25-L						1.54	39.0	0.98	25.0	0.33	8.5	1 1/8	28.6		

‡ Tool/part not a UL listed combination For crimping tool information see www.panduit.com/tools.
*Not UL listed with 22 AWG wire
**Dies used with CT-3001 or CT-3001/E Tool
***Dies used CT-2300 series Tool

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Insulated Ferrules – Single Wire DIN End Sleeve (continued)

Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FSD87-20-L	1 AWG-1/0	50.0	Blue	0.59	15.0	1.42	36.0	0.79	20.0	0.41	10.5	15/16	23.8	CT-1006 CD-920-F87** CD-2001-F87***	50
FSD87-25-Q				0.59	15.0	1.61	41.0	0.98	25.0	0.41	10.5	1 1/8	28.6		25
FSD89-20-Q*	2/0	70.0	Yellow	0.63	16.0	1.46	37.0	0.79	20.0	0.50	12.7	15/16	23.8	CD-920-F89** CD-2001-F89***	25
FSD89-27-Q*				0.63	16.0	1.73	44.0	1.06	27.0	0.50	12.7	1 1/4	31.0		
FSD90-25-Q*	3/0	95.0	Red	0.71	18.0	1.73	44.0	0.98	25.0	0.58	14.7	1 1/8	28.6	CD-920-F90** CD-2001-F90***	
FSD91-27-Q*	4/0-250 kcmil	120.0	Blue	0.83	21.1	1.89	48.0	1.06	27.0	0.66	16.7	1 1/4	31.0	CD-920-F91** CD-2001-F91***	
FSD92-32-Q*	300 kcmil	150.0	Yellow	0.91	23.1	2.28	58.0	1.26	32.0	0.78	19.7	1 1/2	37.0	CD-920-F92** CD-2001-F92***	

*Not UL listed
Visit www.panduit.com/tools for additional tool information
**Dies compatible for use with CT-3001/ST, CT-3001/CCP, CT-930LPCH tools
***Dies compatible for use with CT-2001 and CT-3001 tools
CD-920-F series dies require adapter UA22 for CT3001/CCP tool

Insulated Ferrules – Single Wire Expanded Sleeve

Type FSDX

- Expanded polypropylene sleeve: Provides a wider inside diameter to allow ferrules to fit easily over thick insulated wire, ideal for use in the U.S. and for use with flexible wire
- Funnel wire entry: Forms a guide for easy insertion of wire strands into the crimp barrel to enhance the installation process and improve productivity
- Colored sleeves: Allows visual color designation of wire size to aid in identification and quality inspection
- Meets UL 486F, CSA-C22.2 No. 291-14 and DIN 46228 Standards: Ensures ferrules meet both dimensional and performance requirements for improved safety and product compatibility



Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FSDX75-8-D	22-20	0.5	White	0.12	3.0	0.53	13.5	0.31	8.0	0.04	1.1	15/32	11.91	CD-090*, CT-1002, CT-1003, CT-1090, CT-1123, CT-1160, CT-1170, CT-2523CH**	500
FSDX76-8-D	18	0.75	Gray	0.14	3.4	0.55	14.0	0.31	8.0	0.05	1.3	15/32	11.91		
FSDX77-8-D	18	1.0	Red	0.14	3.4	0.57	14.5	0.31	8.0	0.06	1.5	15/32	11.91		
FSDX78-8-D	16	1.5	Black	0.15	3.8	0.57	14.5	0.31	8.0	0.07	1.8	15/32	11.91		
FSDX84-12-C	6	16.0	Blue	0.37	9.5	.91	23.0	0.47	12.0	0.24	6.0	5/8	15.9	CT-1004, CT-1104, CT-2504CH**	100

For crimping tool information see www.panduit.com/tools.
*For use with CT-2300/ST or CT-2500/L tool
**Crimp head for use with CT-2500/L tool

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Insulated Ferrules – Single Wire for Short Circuit Protection

Type FSDXL

- Wider polypropylene sleeve: Delivers a much wider inside diameter to provide a significant air gap between the wire and the outside of the sleeve: to prevent a electrical arc to adjacent material
- Flanged wire entry: Polypropylene sleeve forms a guide for easy insertion of wire strands into crimp barrel to enhance the installation process and improve productivity
- Colored sleeves: Allows visual color designation of wire size to aid in identification and quality inspection
- Seamless barrel design: A tin-plated copper barrel provides a crimp barrel without any weak points for a consistent and reliable installation
- Meets UL 486F, CSA-C22.2 No. 291-14 and DIN 46228 Standards: Ensures ferrules meet dimensional expectations and performance requirements for improved safety and product compatibility



Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FSDXL78-8-C	16	1.5	Black	0.27	6.9	0.69	17.5	0.32	8.0	0.07	1.8	15/32	11.9	CD-090*, CT-1002, CT-1003, CT-1090, CT-1123, CT-1160, CT-1170, CT-2523CH**	100
FSDXL78-10-C		1.5		0.27	6.9	0.77	19.5	0.39	10.0	0.07	1.8	17/32	13.5		
FSDXL80-8-C	14	2.5	Blue	0.31	7.8	0.69	17.5	0.32	8.0	0.09	2.3	15/32	11.9		
FSDXL80-12-C		2.5		0.31	7.8	0.85	21.5	0.47	12.0	0.09	2.3	5/8	15.9		
FSDXL81-10-C	12	4.0	Gray	0.31	7.8	0.77	19.5	0.39	10.0	0.11	2.9	17/32	13.5		
FSDXL82-12-C	10	6.0	Yellow	0.33	8.3	0.91	23.0	0.47	12.0	0.14	3.6	5/8	15.9	CD-090*, CT-1002, +CT-1003, CT-1090, CT-1123, CT-1160, CT-1170, CT-2523CH**	
FSDXL83-12-C	8	10.0	Red	0.39	9.8	0.94	24.0	0.47	12.0	0.18	4.6	5/8	15.9	CD-090*, +CT-1003, +CT-1004, CT-1090, +CT-1104, CT-1123, CT-1160, CT-1170, CT-2504CH**, CT-2523CH**	
FSDXL84-12-C	6	16.0	Blue	0.47	12	1.00	25.5	0.47	12.0	0.24	6.0	5/8	15.9	CT-1004, CT-2504CH**	

+Tool/part is not a UL listed combination. For crimping tool information see www.panduit.com/tools.
*For use with CT-2300/ST or CT-2500/L crimp head
**Crimp head for use with CT-2500/L tool

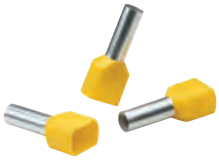
Order number of pieces required, in multiples of Standard Package Quantity.

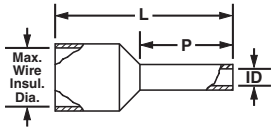
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Insulated Ferrules – Twin Wire DIN End Sleeve

Type FTD

- Meets DIN standards for twin wire containment
- Polypropylene insulation housing conforms to DIN color requirements
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Eases insertion of wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks





Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
FTD75-8-D*	22-20 AWG	0.5	White	0.87	2.2	0.59	15.0	0.31	8.0	0.06	1.5	7/16	11.2	CD-090**, CT-1002, +CT-1003, CT-1090, CT-1160, CT-1170, CT-1123, CT-2523CH***	500
FTD76-8-D	18 AWG	0.75	Gray	0.09	2.4	0.59	15.0	0.31	8.0	0.07	1.8	7/16	11.2		
FTD76-10-D		0.75		0.09	2.4	0.67	17.0	0.39	10.0	0.07	1.8	9/16	14.0		
FTD77-8-D	–	1.0	Red	0.11	2.7	0.59	15.0	0.31	8.0	0.08	2.1	7/16	11.2		
FTD77-10-D		1.0		0.11	2.7	0.67	17.0	0.39	10.0	0.08	2.1	9/16	14.0		
FTD78-8-D	16 AWG	1.5	Black	0.12	3.0	0.63	16.0	0.31	8.0	0.09	2.3	7/16	11.2		
FTD78-12-D		1.5		0.12	3.0	0.79	20.0	0.47	12.0	0.09	2.3	21/32	16.8		
FTD80-10-TL	14 AWG	2.5	Blue	0.15	3.7	0.73	18.5	0.39	10.0	0.11	2.9	9/16	14.0		250
FTD80-13-TL		2.5		0.15	3.7	0.85	21.5	0.51	13.0	0.11	2.9	23/32	18.2		
FTD81-12-C	12 AWG	4.0	Gray	0.17	4.3	0.91	23.0	0.47	12.0	0.15	3.8	21/32	16.8	CD-090**, CT-1002, +CT-1003, CT-1090, CT-1160, CT-1170, CT-1123, CT-2523CH***	100
FTD82-14-C	10 AWG	6.0	Yellow	0.19	4.8	0.98	25.0	0.55	14.0	0.18	4.6	3/4	19.0	CD-090**, +CT-1003, CT-1004, CT-1090, CT-1104, CT-1160, CT-1170, CT-2504CH***	
FTD83-14-C	8 AWG	10.0	Red	0.28	7.1	1.02	26.0	0.55	14.0	0.26	6.6	3/4	19.0	CT-1005	
FTD84-16-C	6 AWG	16.0	Blue	0.35	8.9	1.22	31.0	0.63	16.0	0.33	8.4	13/16	21.0		

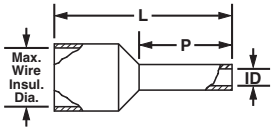
*UL listed with 20 AWG only, UL486F scope is 1/0-20AWG. White is DIN color for 20 AWG
+Tool/part is not a UL listed combination. For crimping tool information see www.panduit.com/tools.
**For use with CT-2300/ST or CT-2500CH crimp head
***Crimp head for use with CT-2500/L tool

Insulated Ferrules on Strips – Single Wire

Type FSD

- Polypropylene insulation housing available in DIN standard colors in strips of 50
- Continuously molded design provides consistent placement of ferrules in tool to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations
- Designed for use with the Semiautomatic Ferrule Crimping Tool CT-1000 for medium volume applications





Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia. In.	Max. Wire Insul. Dia. mm	Figure Dimensions L In.	L mm	P In.	P mm	ID In.	ID mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
DIN End Sleeves															
FSD75-8-DSL10	20 AWG	0.50	White	0.10	2.6	0.60	15.2	0.31	8.0	0.04	1.0	13/32	10.0	CT-1000	500
FSD76-8-DSL8	18 AWG	0.75	Gray	0.11	2.7	0.60	15.2	0.31	8.0	0.06	1.5	13/32	10.0		
FSD77-8-DSL2	–	1.00	Red	0.12	3.0	0.60	15.2	0.31	8.0	0.07	1.8	13/32	10.0		
FSD78-8-DSL0	16 AWG	1.50	Black	0.13	3.2	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		
FSD80-8-DSL6	14 AWG	2.50	Blue	0.16	4.0	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		

For crimping tool information see www.panduit.com/tools.

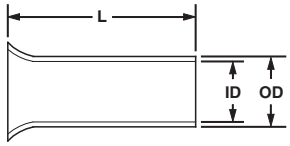
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Ferrules, Non-Insulated

Type F

- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Eases insertion of wire into terminal block
- Meets DIN standards for wire containment
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks





Part Number	Wire Size AWG	Wire Size mm²	Figure Dimensions L In.	L mm	ID In.	ID mm	OD In.	OD mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
F73-5-M*	24 AWG	0.25	0.20	5.0	0.03	0.80	0.04	1.1	7/32	5.0	CT-1002, CT-1123, CT-2523CH***	1000
F73-7-M*		0.25	0.28	7.0	0.03	0.80	0.04	1.1	9/32	7.0		
F74-5-M*	24 – 22 AWG	0.34	0.20	5.0	0.04	0.90	0.05	1.2	7/32	5.0		
F74-7-M*		0.34	0.28	7.0	0.04	0.90	0.05	1.2	9/32	7.0		
F75-6-M+	22 – 20 AWG	0.50	0.24	6.0	0.04	1.0	0.05	1.3	1/4	6.0	CD-090**, CT-1002, CT-1003, CT-1090, CT-1123, CT-1160, CT-1170, CT-2523CH***	
F75-8-M+		0.50	0.31	8.0	0.04	1.0	0.05	1.3	5/16	8.0		
F75-10-M+		0.50	0.39	10.0	0.04	1.0	0.05	1.3	13/32	10.0		
F76-6-M	18 AWG	0.75	0.24	6.0	0.05	1.2	0.06	1.5	1/4	6.0		
F76-8-M		0.75	0.31	8.0	0.05	1.2	0.06	1.5	5/16	8.0		
F76-10-M		0.75	0.39	10.0	0.05	1.2	0.06	1.5	13/32	10.0		
F76-12-M		0.75	0.47	12.0	0.05	1.2	0.06	1.5	15/32	12.0		
F77-6-M	–	1.0	0.24	6.0	0.06	1.4	0.07	1.7	1/4	6.0		
F77-7-M		1.0	0.28	7.0	0.06	1.4	0.07	1.7	9/32	7.0		
F77-8-M		1.0	0.31	8.0	0.06	1.4	0.07	1.7	5/16	8.0		
F77-10-M		1.0	0.39	10.0	0.06	1.4	0.07	1.7	13/32	10.0		
F77-12-M		1.0	0.47	12.0	0.06	1.4	0.07	1.7	15/32	12.0		
F78-7-M	16 AWG	1.5	0.28	7.0	0.07	1.7	0.08	2.0	9/32	7.0		
F78-8-M		1.5	0.31	8.0	0.07	1.7	0.08	2.0	5/16	8.0		
F78-10-M		1.5	0.39	10.0	0.07	1.7	0.08	2.0	13/32	10.0		
F78-12-M		1.5	0.47	12.0	0.07	1.7	0.08	2.0	15/32	12.0		
F78-15-M		1.5	0.59	15.0	0.07	1.7	0.08	2.0	19/32	15.0		
F78-18-M		1.5	0.71	18.0	0.07	1.7	0.08	2.0	23/32	18.0		
F78-20-M		1.5	0.79	20.0	0.07	1.7	0.08	2.0	25/32	20.0		
F80-7-M	14 AWG	2.5	0.28	7.0	0.09	2.2	0.10	2.5	9/32	7.0		
F80-8-M		2.5	0.31	8.0	0.09	2.2	0.10	2.5	5/16	8.0		
F80-10-M		2.5	0.39	10.0	0.09	2.2	0.10	2.5	13/32	10.0		
F80-12-M		2.5	0.47	12.0	0.09	2.2	0.10	2.5	15/32	12.0		
F80-15-M		2.5	0.59	15.0	0.09	2.2	0.10	2.5	19/32	15.0		
F80-18-M		2.5	0.71	18.0	0.09	2.2	0.10	2.5	23/32	18.0		
F80-20-M		2.5	0.79	20.0	0.09	2.2	0.10	2.5	25/32	20.0		
F81-9-M	12 AWG	4.0	0.35	9.0	0.11	2.8	0.13	3.2	11/32	8.0		
F81-10-M		4.0	0.39	10.0	0.11	2.8	0.13	3.2	13/32	10.0		
F81-12-M		4.0	0.47	12.0	0.11	2.8	0.13	3.2	15/32	12.0		
F81-15-M		4.0	0.59	15.0	0.11	2.8	0.13	3.2	19/32	15.0		
F81-18-M		4.0	0.71	18.0	0.11	2.8	0.13	3.2	23/32	18.0		
F81-20-M		4.0	0.79	20.0	0.11	2.8	0.13	3.2	25/32	20.0		
F82-10-M‡	10 AWG	6.0	0.39	10.0	0.14	3.5	0.15	3.9	13/32	10.0	CD-090**, CT-1002, +CT-1003, CT-1090, CT-1123, CT-1160, CT-1170, CT-2523CH***	
F82-12-M‡		6.0	0.47	12.0	0.14	3.5	0.15	3.9	15/32	12.0		
F82-15-M‡		6.0	0.59	15.0	0.14	3.5	0.15	3.9	19/32	15.0		
F82-18-M‡		6.0	0.71	18.0	0.14	3.5	0.15	3.9	23/32	18.0		
F82-20-M‡		6.0	0.79	20.0	0.14	3.5	0.15	3.9	25/32	20.0		

*UL listed with 20 AWG only, UL486F scope is 1/0-20AWG. White is DIN color for 20 AWG
+Tool/Part is not a UL listed Combination. For crimping tool information see www.panduit.com/tools.
**For use with CT-2300/ST or CT-2500CH crimp head
***Crimp head for use with CT-2500/L tool

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Ferrules, Non-Insulated (continued)

CERTIFIED

Type F

Part Number	Wire Size AWG	Wire Size mm²	Figure Dimensions L In.	L mm	ID In.	ID mm	OD In.	OD mm	Wire Strip Length In.	Wire Strip Length mm	Recommended Installation Tool	Std. Pkg. Qty.
F83-12-D‡	8 AWG	10.0	0.47	12.0	0.18	4.5	0.19	4.9	15/32	12.0	CD-090**, +CT-1003, +CT-1004, CT-1090, CT-1104, CT-1123, CT-1160, CT-1170, CT-2504***, CT-2523CH***	500
F83-15-D‡		10.0	0.59	15.0	0.18	4.5	0.19	4.9	19/32	15.0		
F83-18-D‡		10.0	0.71	18.0	0.18	4.5	0.19	4.9	23/32	18.0		
F83-20-D‡		10.0	0.79	20.0	0.18	4.5	0.19	4.9	25/32	20.0		
F83-25-D‡		10.0	0.98	25.0	0.18	4.5	0.19	4.9	31/32	25.0		
F84-12-TL‡	6 AWG	16.0	0.47	12.0	0.23	5.8	0.24	6.2	15/32	12.0	+CT-1004, CT-1104, CT-2504CH***	250
F84-15-TL‡		16.0	0.59	15.0	0.23	5.8	0.24	6.2	19/32	15.0		
F84-18-TL‡		16.0	0.71	18.0	0.23	5.8	0.24	6.2	23/32	18.0		
F84-20-TL‡		16.0	0.79	20.0	0.23	5.8	0.24	6.2	25/32	20.0		
F84-25-TL‡		16.0	0.98	25.0	0.23	5.8	0.24	6.2	31/32	25.0		
F84-32-TL‡		16.0	1.26	32.0	0.23	5.8	0.24	6.2	1 1/4	32.0		
F85-12-C	4 AWG	25.0	0.47	12.0	0.29	7.3	0.30	7.7	15/32	12.0	CT-1005	100
F85-15-C		25.0	0.59	15.0	0.29	7.3	0.30	7.7	19/32	15.0		
F85-18-C		25.0	0.71	18.0	0.29	7.3	0.30	7.7	23/32	18.0		
F85-25-C		25.0	0.98	25.0	0.29	7.3	0.30	7.7	31/32	25.0		
F85-32-C		25.0	1.26	32.0	0.29	7.3	0.30	7.7	1 1/4	32.0		
F86-18-C	2 AWG	35.0	0.71	18.0	0.33	8.3	0.34	8.7	23/32	18.0		
F86-20-C		35.0	0.79	20.0	0.33	8.3	0.34	8.7	25/32	20.0		
F86-25-C		35.0	0.98	25.0	0.33	8.3	0.34	8.7	31/32	25.0		
F86-32-C		35.0	1.26	32.0	0.33	8.3	0.34	8.7	1 1/4	32.0		
F87-18-C	1 AWG-1/0	50.0	0.71	18.0	0.41	10.3	0.43	10.9	23/32	18.0	CT-1006 CD-920-F87** CT-2001-F87***	100
F87-22-C		50.0	0.87	22.0	0.41	10.3	0.43	10.9	7/8	22.0		
F87-25-C		50.0	0.98	25.0	0.41	10.3	0.43	10.9	31/32	25.0		
F87-32-C		50.0	1.26	32.0	0.41	10.3	0.43	10.9	1 1/4	32.0		
F89-25-L*	2/0	70.0	0.98	25.0	0.49	12.5	0.52	13.3	31/32	25.0	CD-920-F89** CD-2001-F89***	50
F89-32-L*	2/0	70.0	1.26	32.0	0.49	12.5	0.52	13.3	1 1/4	32.0		
F90-25-L*	3/0	95.0	0.98	25.0	0.57	14.5	0.60	15.3	31/32	25.0	CD-920-F90** CD-2001-F90***	
F90-30-L*		95.0	1.18	30.0	0.57	14.5	0.60	15.3	13/16	30.0		
F90-32-L*		95.0	1.26	32.0	0.57	14.5	0.60	15.3	1 1/4	32.0		
F91-32-L*	4/0-250 kcmil	120.0	1.26	32.0	0.65	16.5	0.69	16.5	1 1/4	32.0	CD-920-F91** CD-2001-F91***	
F91-40-L*		120.0	1.57	40.0	0.65	16.5	0.69	16.5	1 19/32	40.0		
F92-32-L*	300 kcmil	150	1.26	32.0	0.73	18.5	0.77	19.5	1 1/4	32.0	CD-920-F92** CD-2001-F92***	
F92-38-L*		150	1.50	38.0	0.73	18.5	0.77	19.5	1 1/2	38.0		
F93-32-Q*	350 kcmil	185	1.26	32.0	0.79	20.0	0.83	21.2	1 1/4	32.0	CD-920-F93** CD-2001-F93***	25
F93-40-Q*		185	1.57	40.0	0.79	20.0	0.83	21.2	1 19/32	40.0		
F94-40-Q*	400 kcmil	240	1.57	40.0	0.90	22.8	0.94	24.0	1 19/32	40.0	CD-920-F94** CD-2001-F94***	

*Not UL listed, UL486F scope is 20 - 1/0 AWG only
**Dies compatible for use with CT-3001/ST, CT-3001/CCP, CT-930LPCH tools
***Dies compatible for use with CT-2001 and CT-3001 tools
CD-920-F series dies require adapter UA22 for CT3001/CCP tool
**For use with CT-2300/ST or CT-2500CH crimp head
***Crimp head for use with CT-2500/L tool
Visit www.panduit.com/tools for additional information

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Ferrule Assortment Kits

- Large selection of ferrules in a convenient compact case
- Plastic case is both durable and reusable keeping ferrules organized and separated



KP-FSD1, KP-FSD2, and KP-FSD3



KP-F1 and KP-F2

Part Number	Part Description	Std. Pkg. Qty.
KP-FSD1	Ferrule kit includes: #24 – 18 AWG insulated DIN ferrules. Case includes: 30 pieces each of FSD73-6, FSD74-6, FSD75-8, FSD76-8 and FSD77-8.	1
KP-FSD2	Ferrule kit includes: #22 – 14 AWG insulated DIN ferrules. Case includes: 100 pieces each of FSD76-8, FSD77-8, FSD78-8 50 pieces each of FSD75-8 and FSD80-8.	
KP-FSD3	Ferrule kit includes: #12 – 6 AWG insulated DIN ferrules. Case includes: 50 pieces of FSD81-10 20 pieces each of FSD82-12 and FSD83-12 10 pieces of FSD84-12.	
KP-F1	Ferrule kit includes: #22 – 14 AWG non-insulated ferrules. Case includes: 500 pieces of F75-6 400 pieces each of F76-6 and F77-6 300 pieces of F78-7 200 pieces of F80-7.	
KP-F2	Ferrule kit includes: #12 – 6 AWG non-insulated ferrules. Case includes: 150 pieces of F81-9 100 pieces of F82-10 80 pieces of F83-12 40 pieces of F84-12.	

Ferrule kits do not include crimping tool.

Order number of pieces required, in multiples of Standard Package Quantity.

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Tooling Selection Guide for Panduit® Ferrules

Panduit Ferrule Series	Ferrule Description	Wire Range (AWG)	Wire Range (mm^2)	Wire Strip Length	CT-1000	CT-1090	CT-1002	CT-1003	CT-1004	CT-1005	CT-1006	CT-1104	CT-1123	CT-1160	CT-1170	CT-2300/ST with CD-090	CT-2500/L with CD-090	CT-2500/L with CT-2523CH	CT-2500/L with CT-2504CH	CT-3001/ST
F	Non-insulated ferrules	24	0.25	Please See Ferrule Tables – Pages D1.56 – D1.61			X	X					X					X		
		22 – 18	0.50 – 1.00			X	X	X					X	X	X	X	X	X		
		16	1.50			X	X	X					X	X	X	X	X	X		
		14	2.50			X	X	X					X	X	X	X	X	X		
		12	4.00			X	X	X					X	X	X	X	X	X		
		10	6.00			X	X	X					X	X	X	X	X	X		
		8	10.0			X		X	X			X	X	X	X	X	X	X	X	
		6	16.0					X	X			X							X	
		4 – 2	25.0 – 35.0							X										
		1 – 1/0	50.0								X									X
		2/0	70.0																	X
		3/0	95.0																	X
		4/0 – 250 kcmil	120.0																	X
		300 kcmil	150.0																	X
		350 kcmil	185.0																	X
		400 kcmil	240.0																	X
FSD	Insulated Single Wire Ferrules (DIN Color Code)	26 – 18	0.14 – 1.00			X	X	X					X	X	X	X	X	X		
		16 – 14	1.50 – 2.00			X	X	X					X	X	X	X	X	X		
		12 – 10	4.00 – 6.00			X	X	X					X	X	X	X	X	X		
		8	10.0			X		X	X			X	X	X	X	X	X	X	X	
		6	16.0					X	X			X							X	
		4 – 2	25.0 – 35.0							X										
		1 – 1/0	50.0								X									X
		2/0	70.0																	X
		3/0	95.0																	X
		4/0 – 250 kcmil	120.0																	X
		300 kcmil	150.0																	X
FTD	Insulated Twin Wire Ferrules (DIN Color Code)	22 – 18	0.50 – 1.00			X	X	X					X	X	X	X	X	X		
		16 – 14	1.50 – 2.00			X	X	X					X	X	X	X	X	X		
		12	4.00			X	X	X					X	X	X	X	X	X		
		10	6.00			X		X	X			X		X	X	X	X		X	
		8 – 6	10.0 – 16.0							X										
FSD-DSL	Insulated Single Wire Ferrules on Strips of 50 (DIN Color Code)	20 – 14	0.5 – 2.5	0.31" (8mm)	X															

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Technical Specification and Selection Information

The following pages provide information helpful in specifying Panduit® terminals and selecting the appropriate terminal and tooling for your applications.

Panduit Terminal Approvals

Logo (Symbol)	Agency	Spec/Approval	Requirement	Applicable Products
UL LISTED c UL us	Underwriters Laboratories, Inc.	#E52164 – UL486A	Minimum tensile strength (pull out force for the crimp terminal) and test current for max. 50°C rise (amps)	All Ring and Fork Terminals
		#E78522 – UL310	Minimum tensile strength (pull out force for the crimp terminal) and continuous test current for max. 30°C rise (amps) (for 0.187", 0.205", 0.250" tab widths) and (0.110" tab width)	All Disconnects
		#E52164 – UL486C	Minimum tensile strength (pull out force for the crimp terminal) and test current for max. 50°C rise (amps)	All Splices
UL CERTIFIED		#E472545 – UL486F	Minimum tensile strength (pull force for the crimped ferrule), Mold Stress Relief, and Dielectric Voltage Withstand	Select Ferrules
SP CERTIFIED c UL us	Canadian Standards Association	#LR31212 – C22.2 No. 65	Minimum tensile strength (pull out force for the crimp terminal) and test current for max. 50°C rise (amps)	All Ring and Fork Terminals
		#LR31212 – C22.2 No. 153		All Disconnects
		#LR31212 – C22.2 No.291-14	Minimum tensile strength (pull force for the crimped ferrule), Mold Stress Relief, and Dielectric Voltage Withstand	All Ferrules
ABS TYPE APPROVAL PROGRAM	American Bureau of Shipping	ABS Rules, Steel Vessel Rules 1-1-4/7.7, 4-8-3/9.19, 4-8-4/21.28	Passed extensive testing requirements to verify that product will perform reliably in marine and offshore environments.	Fork Terminals: P-F, PN-F, PV-F, PN-LF, PNF-LF, PV-LF, P-LF Ring Terminals: P-R, PN-R, PNF-R, PV-R, S-R Wire Joints: JN224-318, JN218-216, JN418-212 Splices: BSN, BSV, BS Disconnects: DNF, DNF-FIB, DVF, D, DNF-FL, DNF-M, DNF18-250M, DNF14-250M, DNF18-250FIM, FIMB, FIB, 14-250FIM, FIMB, and FIB
	Dept. of Defense	Mil Spec Qualification Test Ref #01017302.AE/05-24-2016	Approved for listing on QPL AS 7928 Class I and Class II	Ring Terminals

Order number of pieces required, in multiples of Standard Package Quantity.

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Performance Requirements

	Wire Size (AWG)								
	#26	#24	#22	#20	#18	#16	#14	#12	#10
UL 486A (TERMINALS), UL 310 (MALE BLADE ADAPTERS)									
Test Current for Max. 50°C Rise (Amps)	3.5	7	9	12	17	18	30	35	50
Min. Tensile Strength* (Lbs.)	3	5	8	13	20	30	50	70	80
UL 486C (SPLICES)									
Test Current for Max. 50°C Rise (Amps)	5.5	7	9	12	17	18	30	35	50
Min. Tensile Strength* (Lbs.)	3	5	8	10	10	15	25	35	40

*Pull-out force of the crimped terminal.

	Wire Size (AWG)						
	#22	#20	#18	#16	*#14	#12	#10
UL 310 (DISCONNECTS)							
Continuous Test Current for Max. 30°C Rise (amps) (for 187", 205", 250" tab widths)	3	4	7	10	15	20	24
Continuous Test Current for Max. 30°C Rise (amps) (for 0.110", tab width)	2	3	4	5	Not Applicable		
Min. Tensile Strength* (Lbs.)	8	13	20	30	50	70	80

*Pull-out force of the crimped disconnect.

Applicable Pan-Term® products meet or exceed the following test specifications:

- UL 486A (Terminals)
- UL 486C (Splices)
- UL 310 (Blade Adapters)
- CSA C22.2 No. 65 (all designs)

UL and CSA approved products are shown with the applicable logos in the product section. UL file #E52164, CSA File #LR31212.

Applicable Pan-Term® products meet or exceed the following test specifications:

- UL 310 (Disconnects)
- CSA C22.2 No. 153 (all designs)

UL and CSA Listed products are shown with the applicable logos in the product section. UL file #E78522 and CSA file #LR31212.

Applicable Panduit® ferrules meet or exceed the following test specifications:

- UL 486F (Ferrules)
- CSA-C22.2 No.291-14
- DIN color code

UL and CSA Listed products are shown with the applicable logos in the product section. UL file #E472545 and CSA file #LR31212

Panduit® Pan-Term® Terminal Military Cross Reference

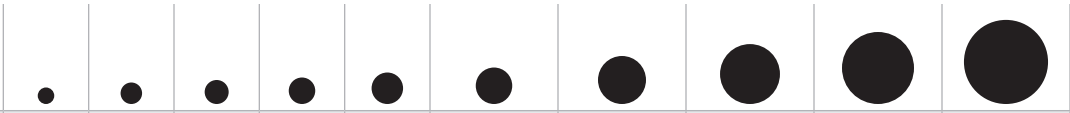
Current Mil. Std Part No., Class 1	Ring Terminals Nylon Insulated
MS25036-101	PN18-6RN
MS25036-102	PN18-6R
MS25036-103	PN18-10R
MS25036-104	PN18-56R
MS25036-105	PN18-38R
MS25036-106	PN14-6RN
MS25036-107	PN14-6R
MS25036-108	PN14-10R
MS25036-109	PN14-56R
MS25036-110	PN14-38R
MS25036-111	PN10-6R
MS25036-112	PN10-10R
MS25036-113	PN10-56R
MS25036-114	PN10-38R
MS25036-148	PN18-4RN
MS25036-149	PN18-8R
MS25036-150	PN18-14R
MS25036-152	PN14-4R
MS25036-153	PN14-8R
MS25036-154	PN14-14R
MS25036-156	PN10-8R
MS25036-157	PN10-14R

Current Mil. Std Part No., Class 2	Ring Terminals, Nylon Insulated or Nylon Insulated with Funnel Entry
MS25036-101	PN18-6RN or PNF18-6RN
MS25036-102	PN18-6R or PNF18-6R
MS25036-103	PN18-10R or PNF18-10R
MS25036-104	PN18-56R or PNF18-56R
MS25036-105	PN18-38R or PNF18-38R
MS25036-106	PN14-6RN or PNF14-6RN
MS25036-107	PN14-6R or PNF14-6R
MS25036-108	PN14-10R or PNF14-10R
MS25036-109	PN14-56R or PNF14-56R
MS25036-110	PN14-38R or PNF14-38R
MS25036-111	PN10-6R or PNF10-6R
MS25036-112	PN10-10R or PNF10-10R
MS25036-113	PN10-56R or PNF10-56R
MS25036-114	PN10-38R or PNF10-38R
MS25036-148	PN18-4RN or PNF18-4RN
MS25036-149	PN18-8R or PNF18-8R
MS25036-150	PN18-14R or PNF18-14R
MS25036-152	PN14-4R or PNF14-4R
MS25036-153	PN14-8R or PNF14-8R
MS25036-154	PN14-14R or PNF14-14R
MS25036-156	PN10-8R or PNF10-8R
MS25036-157	PN10-14R or PNF10-14R
Crimping Tools: CT-400 and CT-460	

Current Mil. Std Part No., Class 1	Ring Terminals Non-Insulated
MS20659-165	P10-6R
MS20659-105	P10-10R
MS20659-106	P10-56R
MS20659-128	P10-38R

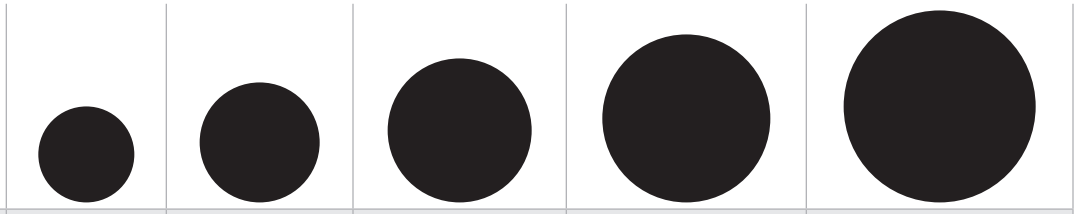
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Stud Size Chart (Inches/Millimeters)



Standard Stud Size	#2	#4	#5	#6	#8	#10	14"	5/16"	3/8"	7/16"
Metric Stud Size (mm)	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M11
Stud Size Decimal Equivalent	0.086"	0.112"	0.127"	0.138"	0.164"	0.190"	0.250"	0.312"	0.375"	0.438"
Metric Diameter (mm)	2.18	2.84	3.18	3.51	4.17	4.83	6.35	7.92	9.53	11.13
Terminal Hole Diameter	0.090"	0.118"	0.130"	0.147"	0.173"	0.204"	0.270"	0.343"	0.392"* 0.406"**	0.456"
Terminal Hole Diameter Metric (mm)	2.29	3.0	3.23	3.71	4.39	5.18	6.86	8.71	9.78	11.58
Stud Size Designation in Panduit Part Number	2	4	5	6	8	10	14	56	38	76

*Terminal stud.
**Power Connector stud.



Standard Stud Size	1/2"	5/8"	3/4"	7/8"	1"
Metric Stud Size (mm)	M12	M16	M18	M20	M25
Stud Size Decimal Equivalent	0.500"	0.625"	0.750"	0.875"	1.00"
Metric Diameter (mm)	12.7	15.88	19.05	22.23	25.4
Terminal Hole Diameter	0.531"	0.656"	0.810"	0.906"	1.031"
Terminal Hole Diameter Metric (mm)	13.49	16.66	20.57	23.01	26.19
Stud Size Designation in Panduit Part Number	12	58	34	78	1

Note: Stud hole diagrams are for U.S. reference only.

Order number of pieces required, in multiples of Standard Package Quantity.

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Equivalent Tables

Decimal/Inches/Millimeters

1/64	*0.0156*	0,396
1/32	*0.0312*	0,792
3/64	*0.0468*	1,189
1/16	*0.0625*	1,588
5/64	*0.0781*	1,984
3/32	*0.0937*	2,380
7/64	*0.1093*	2,779
1/8	*0.125*	3,175
9/64	*0.1406*	3,571
5/32	*0.1562*	3,968
11/64	*0.1718*	4,366
3/16	*0.1875*	4,763
13/64	*0.2031*	5,159
7/32	*0.2187*	5,555
15/64	*0.2343*	5,954
1/4	*0.25*	6,350
17/64	*0.2656*	6,746
9/32	*0.2812*	7,143
19/64	*0.2968*	7,541
5/16	*0.3125*	7,938
21/64	*0.3281*	8,337
11/32	*0.3437*	8,730
23/64	*0.3593*	9,129
3/8	*0.375*	9,525
25/64	*0.3906*	9,921
13/32	*0.4062*	10,317
27/64	*0.4218*	10,716
7/16	*0.4375*	11,113
29/64	*0.4531*	11,509
15/32	*0.4687*	11,905
31/64	*0.4843*	12,304
1/2	*0.5*	12,700
33/64	*0.5156*	13,100
17/32	*0.5312*	13,492
35/64	*0.5468*	13,891
9/16	*0.5625*	14,288
37/64	*0.5781*	14,684
19/32	*0.5937*	15,080
39/64	*0.6093*	15,479
5/8	*0.625*	15,875
41/64	*0.6406*	16,271
21/32	*0.6562*	16,667
43/64	*0.6718*	17,066
11/16	*0.6875*	17,463
45/64	*0.7031*	17,859
23/32	*0.7187*	18,255
47/64	*0.7343*	18,654
3/4	*0.75*	19,050
49/64	*0.7656*	19,446
25/32	*0.7812*	14,842
51/64	*0.7968*	20,241
13/16	*0.8125*	20,637
53/64	*0.8281*	21,034
27/32	*0.8437*	21,480
55/64	*0.8593*	21,828
7/8	*0.875*	22,225
57/64	*0.8906*	22,620
29/32	*0.9062*	23,017
59/64	*0.9218*	23,416
15/16	*0.9375*	23,810
61/64	*0.9531*	24,208
31/32	*0.9687*	24,605
63/64	*0.9843*	25,001
1	*1.*	25,400

Common Conductor Size Chart (Stranded Wire)

Size	No. of Strands	Individual Strand Size Inches (mm)	Conductor Size Inches (mm)	Conductor Size Circle Mil Area (mm²)
22 AWG	7	0.0096 (0.24)	0.029 (0.74)	640 (0.324)
20 AWG	10	0.0100 (0.25)	0.038 (0.97)	1020 (0.519)
18 AWG	16	0.0100 (0.25)	0.048 (1.22)	1620 (0.823)
16 AWG	26	0.0100 (0.25)	0.060 (1.52)	2580 (1.310)
14 AWG	7	0.0242 (0.61)	0.073 (1.85)	4110 (2.080)
12 AWG	7	0.0305 (0.77)	0.092 (2.34)	6530 (3.310)
10 AWG	7	0.0385 (0.98)	0.116 (2.95)	10,380 (5.261)
8 AWG	7	0.0486 (1.23)	0.146 (3.71)	16,510 (8.367)
6 AWG	7	0.0612 (1.55)	0.184 (4.67)	26,240 (13.30)
4 AWG	7	0.0772 (1.96)	0.232 (5.89)	41,740 (21.15)
2 AWG	7	0.0974 (2.47)	0.292 (7.42)	66,360 (33.62)
1 AWG	19	0.0664 (1.69)	0.332 (8.43)	83,690 (42.41)

Size	No. of Strands	Individual Strand Size Inches (mm)	Conductor Size Inches (mm)	Conductor Size Circle Mil Area (mm²)
1/0 AWG	19	0.0745 (1.89)	0.373 (9.47)	105,600 (0.823)
2/0 AWG	19	0.0837 (2.13)	0.418 (10.62)	133,100 (67.43)
3/0 AWG	19	0.0940 (2.39)	0.470 (11.94)	167.800 (85.01)
4/0 AWG	19	0.1055 (2.68)	0.528 (13.41)	211,600 (107.2)
250 kcmil	37	0.0822 (2.09)	0.575 (14.61)	250,000 (127)
300 kcmil	37	0.0900 (2.29)	0.630 (16.00)	300,000 (152)
350 kcmil	37	0.0973 (2.47)	0.681 (17.29)	350,000 (177)
400 kcmil	37	0.1040 (2.64)	0.728 (18.49)	400,000 (203)
500 kcmil	37	0.1162 (2.95)	0.813 (20.65)	500,000 (253)
600 kcmil	61	0.0992 (2.52)	0.893 (22.68)	600,000 (304)
750 kcmil	61	0.1109 (2.82)	0.998 (25.35)	750,000 (380)
800 kcmil	61	0.1145 (2.91)	1.031 (26.19)	800,000 (405)
1000 kcmil	61	0.1280 (3.25)	1.152 (29.26)	1,000,000 (507)

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Common Conductor Sizes and Strandings Reference Chart

Conductor		Individual Strands			Overall Conductor Size			Conductor		Individual Strands			Overall Conductor Size		
			Diameter		Diameter		Area				Diameter		Diameter		Area
AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. MILS	AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. MILS
	0.05	25	0.05	0.002	0.25	0.010	97		1.0	19	0.25	0.010	1.30	0.051	1841
	0.06	41	0.05	0.002	0.36	0.014	159			1	1.13	0.044	1.13	0.044	1979
26		10	0.13	0.005	0.53	0.021	250			32	0.20	0.008	1.30	0.051	1984
		1	0.41	0.016	0.41	0.016	256			7	0.43	0.017	1.30	0.051	2006
		7	0.16	0.006	0.48	0.019	278	16		19	0.29	0.011	1.47	0.058	2426
		19	0.10	0.004	0.51	0.020	304			65	0.16	0.006	1.50	0.059	2580
24		41	0.08	0.003	0.58	0.023	384			*26	0.25	0.010	1.50	0.059	2600
		10	0.16	0.006	0.58	0.023	397			1	1.30	0.051	1.30	0.051	2601
		1	0.51	0.020	0.51	0.020	400			105	0.13	0.005	1.50	0.059	2625
		7	0.20	0.008	0.61	0.024	448			*7	0.51	0.020	1.52	0.060	2828
		19	0.13	0.005	0.61	0.024	475		1.5	30	0.25	0.010	1.70	0.067	2906
	0.25	65	0.07	0.003	0.65	0.026	484			21	0.30	0.012	1.60	0.063	2930
		128	0.05	0.002	0.65	0.026	496			189	0.10	0.004	1.90	0.075	2930
		32	0.10	0.004	0.65	0.026	496			7	0.52	0.020	1.60	0.063	2934
		14	0.16	0.006	0.65	0.026	556			1	1.38	0.054	1.38	0.054	2952
22		1	0.64	0.025	0.64	0.025	625	14		45	0.16	0.006	1.85	0.073	3786
		16	0.16	0.006	0.76	0.030	635			19	0.38	0.014	1.85	0.073	3831
		26	0.13	0.005	0.76	0.030	650			1	1.63	0.064	1.63	0.064	4096
		7	0.25	0.010	0.76	0.030	700			*41	0.25	0.010	1.85	0.073	4100
		19	0.16	0.006	0.79	0.031	754			*7	0.64	0.025	1.85	0.073	4481
	0.38	48	0.10	0.004	0.80	0.031	744		2.5	50	0.25	0.010	2.20	0.087	4844
		194	0.05	0.002	0.80	0.031	752			7	0.67	0.026	2.10	0.083	4871
		100	0.07	0.003	0.80	0.031	760			35	0.30	0.012	2.20	0.087	4883
		7	0.27	0.011	0.80	0.031	791			315	0.10	0.004	2.20	0.087	4883
		12	0.21	0.008	0.80	0.031	820			1	1.78	0.070	1.78	0.070	4911
		21	0.16	0.006	0.80	0.031	833	12		19	0.45	0.018	2.36	0.093	6088
	0.5	7	0.30	0.012	0.90	0.035	977			*65	0.25	0.010	2.41	0.095	6500
		16	0.20	0.008	0.90	0.035	992			165	0.16	0.006	2.41	0.095	6549
		1	0.80	0.031	0.80	0.031	992			1	2.06	0.081	2.06	0.081	6561
20		*10	0.25	0.010	0.89	0.035	1000			*7	0.81	0.032	2.44	0.096	7168
		1	0.81	0.032	0.81	0.032	1024		4.0	56	0.30	0.012	3.10	0.122	7812
		41	0.13	0.005	0.91	0.036	1025			1	2.26	0.089	2.26	0.089	7917
		26	0.16	0.006	0.91	0.036	1032			511	0.10	0.004	3.00	0.118	7921
		*7	0.32	0.013	0.97	0.038	1111			19	0.52	0.020	2.70	0.106	7963
		19	0.20	0.008	0.94	0.037	1216	10		37	0.40	0.016	2.92	0.115	9354
	0.75	7	0.37	0.015	1.10	0.043	1485			49	0.36	0.014	2.95	0.116	9880
		24	0.20	0.008	1.20	0.047	1488			*7	0.98	0.039	2.95	0.116	10376
		1	1.00	0.039	1.00	0.039	1550			1	2.59	0.102	2.59	0.102	10404
18		*16	0.25	0.010	1.19	0.047	1600			*105	0.25	0.010	2.95	0.116	10500
		1	1.02	0.040	1.02	0.040	1600		6.0	84	0.30	0.012	3.50	0.138	11718
		65	0.13	0.005	1.19	0.047	1625			756	0.10	0.004	3.70	0.146	11718
		41	0.16	0.006	1.19	0.047	1627			1	2.76	0.109	2.76	0.109	11807
		*7	0.40	0.016	1.22	0.048	1770			7	1.05	0.041	3.20	0.126	11962
		19	0.25	0.010	1.24	0.049	1900			19	0.64	0.025	3.30	0.130	12063

*Strandings required for UL and CSA certification testing.

This chart details the different conductors commonly used in the industry. For each size, either AWG or metric, various stranding options are listed. Typically the higher stranding is used in applications requiring greater conductor flexibility.

AWG to Metric Wire Crosses	
AWG	Metric (mm²)
26 – 22	0.1 – 0.5
22 – 18	0.5 – 1.0
16 – 14	1.5 – 2.5
12 – 10	4.0 – 6.0

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Common Conductor Sizes and Strandings Reference Chart (continued)

Conductor		Individual Strands			Overall Conductor Size			Conductor		Individual Strands			Overall Conductor Size		
			Diameter		Diameter		Area				Diameter		Diameter		Area
AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. MILS	AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. MILS
	6	7	0.107	0.042	3.21	0.126	11840		95	19	2.57	0.101	12.8	0.505	187500
		1	2.77	0.109	2.77	0.109	11840			37	1.83	0.072	12.5	0.504	187500
9		7	1.1	0.0432	3.3	0.13	13000	4/0		19	2.89	0.1055	13.4	0.528	211600
		1	2.91	0.1144	2.91	0.114	13090		120	37	2.06	0.081	14.4	0.567	237.8 kcmil
8		1	3.26	0.1285	3.25	0.128	16510	250 kcmil		37	2.07	0.0822	14.6	0.575	250 kcmil
		7	1.23	0.0486	3.7	0.146	16510	300 kcmil	150	37	2.29	0.09	16	0.63	300 kcmil
	10	7	1.37	0.054	4.12	0.162	19740	350 kcmil		37	2.47	0.0973	17.3	0.681	350 kcmil
		1	3.58	0.141	3.58	0.141	19740		185	37	2.54	0.1	17.8	0.7	365.1 kcmil
7		7	1.38	0.0545	4.15	0.164	20520	400 kcmil		37	2.64	0.104	18.5	0.728	400 kcmil
		1	3.67	0.1443	3.67	0.144	20520		240	37	2.9	0.114	20.3	0.798	473.6 kcmil
6		7	1.55	0.0612	4.66	0.184	26240			61	2.26	0.089	20.3	0.801	
		1	4.11	0.162	4.11	0.162	26240	500 kcmil		37	2.95	0.1162	20.7	0.813	500 kcmil
	16	7	1.73	0.008	5.13	0.204	31580			61	2.3	0.0905	20.7	0.814	
5		7	1.75	0.0688	5.24	0.206	33090		300 kcmil	61	2.51	0.099	22.6	0.891	592.1 kcmil
4		7	1.96	0.0772	5.88	0.232	41740	600 kcmil		61	2.52	0.0992	22.7	0.893	600 kcmil
	25	7	2.16	0.085	6.48	0.255	49340	700 kcmil		61	2.72	0.1071	24.5	0.964	700 kcmil
		19	1.32	0.052	6.6	0.26	49340	750 kcmil		61	2.82	0.1109	25.4	0.998	750 kcmil
3		7	2.2	0.0867	6.61	0.26	52620			91	2.31	0.0908			
2		7	2.47	0.0974	7.42	0.292	66300		400	61	2.9	0.114	26.1	1.026	798.4 kcmil
	35	7	2.54	0.1	7.62	300	69070	800 kcmil		61	2.91	0.1145	26.2	1.031	800 kcmil
		19	1.55	0.001	7.75	0.305	69070			91	2.38	0.0938		1.032	
1		19	1.5	0.0064	8.43	0.332	83690	1000 kcmil	500	61	3.25	0.128	28.3	1.152	986.8 kcmil
	50	19	1.85	0.073	9.27	0.365	98680			91	2.66	0.1048	29.3	1.153	1000 kcmil
1/0		19	1.59	0.0745	9.46	0.373	10500		625	91	2.97	0.117	32.7	1.287	1233.7 kcmil
2/0		19	2.13	0.0837	10.6	0.419	133100								
	70	19	2.18	0.086	10.9	0.43	138100								
3/0		19	2.59	0.094	11.9	0.47	167800								
		36	1.71	0.0673	12	0.471	167800								

This chart details the different conductors commonly used in the industry. For each size, either AWG or metric, various stranding options are listed. Typically the higher stranding is used in applications requiring greater conductor flexibility.

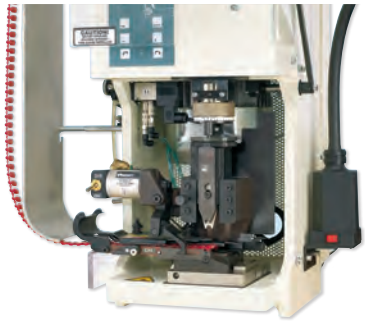
AWG to Metric Wire Crosses	
AWG	Metric (mm²)
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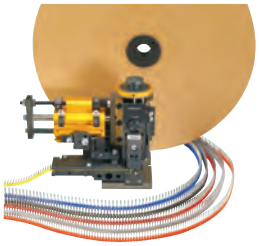
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Notes

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Reel Smart™ System

The Panduit® Reel Smart™ System provides the best solution for quality, high volume terminations designed to dramatically reduce set-up time and production downtime. This increased efficiency translates into real cost savings throughout the termination process from start to finish.

- **One applicator system terminates over 400 continuously molded terminals, reducing cost of ownership**
- **Continuously molded integrated carrier guarantees alignment of terminal; front to back and side to side to eliminate skewing of product resulting in consistent, high quality low cost termination**
- **Available in large reels requiring less product changeover, resulting in less downtime**
- **Applicable sizes are UL Listed and CSA Certified, as noted**
- **Panduit® CA9 Ezair™ Universal Applicator works with Reel Smart™ Reel-Fed Terminals to deliver the ultimate fully automatic, high-capacity termination performance**
- **Panduit reel fed strip ferrules combine with tooling options to support wire harness, control panel, and automatic wire processing applications**

Panduit continually provides new designs with innovative features to meet the application challenges encountered by customers, while providing the lowest installed cost.

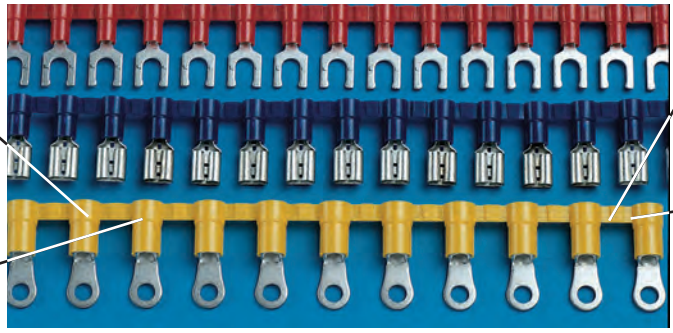
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Features and Benefits – Reel Smart™ Termination System

The Panduit® continuously molded Reel Smart™ products are designed such that the terminal, disconnect, and butt splice housings are connected by an integral molded carrier in the barrel crimp zone, producing a continuous length of product. Plated metal terminals, disconnects, and splices are then assembled into the housings. During termination, the continuously molded components are fed into a universal applicator. This process produces a reel-fed solution that eliminates a variety of problems associated with other reel-fed designs and provides high quality, high capacity product on reels for longer, uninterrupted production runs – resulting in the lowest installed cost.

Pre-insulated design eliminates the need for post-insulation – resulting in labor savings

Barrel position is controlled for consistent wire feed targeting to deliver high process capability



Continuously molded design always aligns product with the carrier strip – resulting in trouble free tool operation

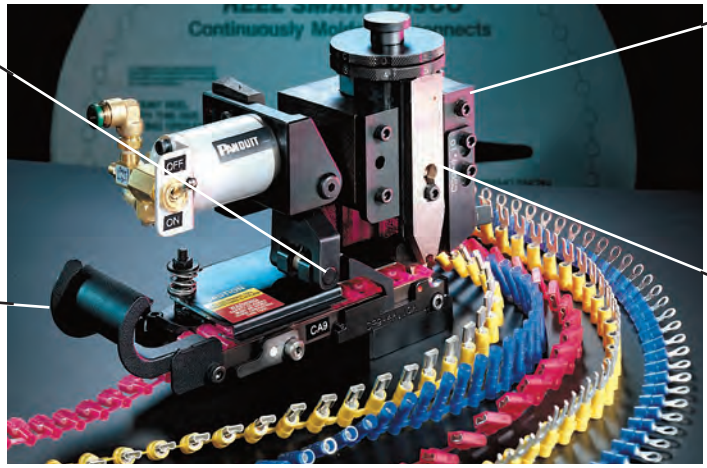
Plastic carrier strip eliminates sharp, unplated edges as found on metal strip-fed carriers – providing better corrosion resistance

Reel Smart™ CA9 Ezair™ Universal Applicator

The Panduit® CA9 Ezair™ applicator automatically adjusts feed stroke to the correct pitch and length for the entire product line of continuously molded products. The need for multiple applicators is eliminated. The applicator, in conjunction with the precision, continuously molded product provides perfect front-to-back and side-to-side alignment in the die pocket for a high quality termination every time – resulting in the most optimum system to terminate terminals.

Automatic, self-adjusting feed stroke – resulting in correct pitch and length

Versatile applicator design – allows for installation in bench presses, and most automatic wire processing systems of 3rd party manufacturers



Universal applicator installs Reel Smart™ product line – resulting in lower tooling inventory costs

Quick change dies – provide fast product change-over and reduction in set-up time

Nylon Insulated Terminals with Insulation Grip Sleeve (Funnel and Non-Funnel Entry Types)

The three-piece design terminal provides a permanently attached tin plated brass sleeve for insulation grip in funnel and straight entry sleeve designs. This product feature offers the most reliable terminations. Nylon insulation is rated up to 600 V maximum and designed for up to 221°F (105°C) operating temperature maximum. Supplied on rings, forks, locking forks, short locking forks and flanged forks in wire sizes #22 through #10.



- Sleeved barrel – assures crimp reliability
- PNF – funnel entry styles available
- Metal insulation crimp – provides DOUBLE CRIMP wire insulation grip sleeve for high vibration and to meet conductor strain environments
- Internal wire barrel serrations – provides increased wire contact and maximum tensile strength
- Product markings – UL and CSA rated – up to 600 V, maximum operating temperature 221°F (105°C)

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number System for Reel Smart™ Terminals

P	NF	14	–	6	R	N	3K
Type	Insulation	Wire Range		Stud Size	Tongue Configuration	Special Configuration	Std. Pkg. Size

Type
- P = Terminal
- BS = Butt Splice

Insulation
- N = Nylon Insulated
- NF = Nylon Insulated Funnel Entry
- V = Vinyl Insulated

Wire Range
- 18 = #22 – 18
- 14 = #16 – 14
- 12 = #16 – 12
- 10 = #12 – 10

Stud Size
- 4 = #4
- 5 = #5
- 6 = #6
- 8 = #8
- 10 = #10
- 14 = 1/4"
- 56 = 5/16"
- 38 = 3/8"

Tongue Configuration
- R = Ring
- HDR = Heavy Duty Ring
- F = Fork
- FF = Flanged fork
- LF = Locking fork

Special Configuration
- N = Narrow Tongue
- W = Wide Tongue
- B = Butted Seam
- = Standard (leave blank)

Std. Pkg. Size
- 2K = 2,000 pcs.
- 3K = 3,000 pcs.

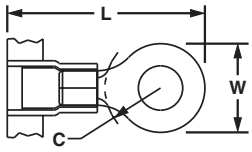
Ring Terminals, Nylon Insulated – Non-Funnel Entry

LISTED CERTIFIED

Type PN-R

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
PN18-4R-3K	22 – 18 AWG	Red	0.03	0.145	#4	0.80	0.25	0.22	CD9-1A	CD-800-1	3000
PN18-6RN-3K			0.03	0.145	#6	0.74	0.22	0.18			
PN18-6R-3K			0.03	0.145	#6	0.78	0.25	0.22			
PN18-8R-3K			0.03	0.145	#8	0.86	0.31	0.25			
PN18-10R-3K			0.03	0.145	#10	0.86	0.31	0.25			
PN18-14R-3K			0.03	0.145	1/4"	1.05	0.45	0.38			
PN14-4R-3K	16 – 14 AWG	Blue	0.03	0.162	#4	0.76	0.25	0.22	CD9-2A	CD-800-2	3000
PN14-6RN-3K			0.03	0.162	#6	0.76	0.25	0.22			
PN14-6R-3K			0.03	0.162	#6	0.86	0.31	0.25			
PN14-8R-3K			0.03	0.162	#8	0.86	0.31	0.25			
PN14-10R-3K			0.03	0.162	#10	0.86	0.31	0.25			
PN14-14R-3K			0.03	0.162	1/4"	1.06	0.44	0.38			
PN10-6R-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.38	0.31	CD9-3B	CD-800-3	2000
PN10-8R-2K			0.04	0.225	#8	1.06	0.38	0.31			
PN10-10R-2K			0.04	0.225	#10	1.06	0.38	0.31			
PN10-14R-2K			0.04	0.225	1/4"	1.21	0.52	0.38			
PN10-56R-2K			0.04	0.225	5/16"	1.21	0.52	0.38			
PN10-38R-2K			0.04	0.225	3/8"	1.29	0.58	0.43			

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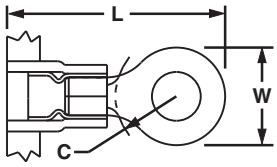
Ring Terminals, Nylon Insulated – Funnel Entry

LISTED CERTIFIED

Type PNF-R

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-4RN-3K	22 – 18 AWG	Red	0.03	0.145	#4	0.74	0.22	0.19	CD9-1A	CD-800-1	3000
PNF18-4R-3K			0.03	0.145	#4	0.78	0.25	0.21			
PNF18-6RN-3K			0.03	0.145	#6	0.74	0.22	0.16			
PNF18-6R-3K			0.03	0.145	#6	0.78	0.25	0.21			
PNF18-8R-3K			0.03	0.145	#8	0.86	0.31	0.25			
PNF18-10R-3K			0.03	0.145	#10	0.86	0.31	0.25			
PNF18-14R-3K			0.03	0.145	1/4"	1.06	0.46	0.38			
PNF14-4R-3K	16 – 14 AWG	Blue	0.03	0.162	#4	0.78	0.25	0.18	CD9-2A	CD-800-2	3000
PNF14-6RN-3K			0.03	0.162	#6	0.78	0.25	0.18			
PNF14-6R-3K			0.03	0.162	#6	0.87	0.31	0.24			
PNF14-8R-3K			0.03	0.162	#8	0.87	0.31	0.25			
PNF14-10R-3K			0.03	0.162	#10	0.85	0.31	0.29			
PNF14-14R-3K			0.03	0.162	1/4"	1.06	0.46	0.40			
PNF10-6R-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.06	0.38	0.31	CD9-3B	CD-800-3	2000
PNF10-8R-2K			0.04	0.225	#8	1.06	0.38	0.31			
PNF10-10R-2K			0.04	0.225	#10	1.06	0.38	0.31			
PNF10-14R-2K			0.04	0.225	1/4"	1.21	0.52	0.38			
PNF10-56R-2K			0.04	0.225	5/16"	1.21	0.52	0.38			
PNF10-38R-2K			0.04	0.225	3/8"	1.29	0.58	0.43			

Order number of pieces required, in multiples of Standard Package Quantity.

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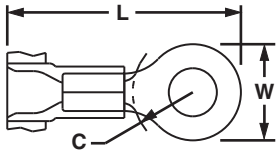
Ring Terminals, Vinyl Insulated – Funnel Entry

LISTED CERTIFIED

Type PV-RB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-4RNB-3K	22 – 18 AWG	Red	0.03	0.150	#4	0.74	0.21	0.19	CD9-1A	CD-800-1	3000
PV18-4RB-3K			0.03	0.150	#4	0.78	0.25	0.20			
PV18-6RNB-3K			0.03	0.150	#6	0.75	0.23	0.19			
PV18-6RB-3K			0.03	0.150	#6	0.78	0.25	0.20			
PV18-8RB-3K			0.03	0.150	#8	0.86	0.31	0.25			
PV18-10RB-3K			0.03	0.150	#10	0.86	0.31	0.25			
PV18-14RB-3K			0.03	0.150	1/4"	1.06	0.45	0.38			
PV18-56RB-2K			0.03	0.150	5/16"	1.06	0.46	0.38	CD9-1B	CD-800-1	2000
PV18-38RB-2K			0.03	0.150	3/8"	1.15	0.53	0.43			
PV14-4RB-3K	16 – 14 AWG	Blue	0.03	0.170	#4	0.76	0.25	0.22	CD9-2A	CD-800-2	3000
PV14-6RNB-3K			0.03	0.170	#6	0.76	0.25	0.22			
PV14-6RB-3K			0.03	0.170	#6	0.86	0.31	0.25			
PV14-8RB-3K			0.03	0.170	#8	0.86	0.31	0.25			
PV14-10RB-3K			0.03	0.170	#10	0.86	0.31	0.25			
PV14-14RB-3K			0.03	0.170	1/4"	1.05	0.45	0.38			
PV14-56RB-2K			0.03	0.170	5/16"	1.06	0.46	0.38	CD9-2B	CD-800-2	2000
PV14-38RB-2K			0.03	0.170	3/8"	1.15	0.53	0.43			
PV10-6RB-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.31	0.31	CD9-3B	CD-800-3	2000
PV10-8RB-2K			0.04	0.225	#8	1.02	0.31	0.31			
PV10-10RB-2K			0.04	0.225	#10	1.02	0.31	0.31			
PV10-14RB-2K			0.04	0.225	1/4"	1.20	0.52	0.38			
PV10-56RB-2K			0.04	0.225	5/16"	1.20	0.52	0.38			
PV10-38RB-2K			0.04	0.225	3/8"	1.23	0.58	0.43			

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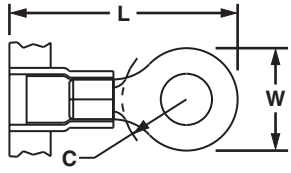
Ring Terminals, Nylon Insulated – Heavy Duty

LISTED CERTIFIED

Type PN-HDR

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy duty application
- Ring tongue design assures a secure connection in high vibration applications
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN12-6HDR-2K	16 – 12 AWG	Yellow	0.05	0.225	#6	1.02	0.31	0.31	CD9-3B	CD-800-3	2000
PN12-8HDR-2K			0.05	0.225	#8	1.02	0.31	0.31			
PN12-10HDR-2K			0.05	0.225	#10	1.05	0.38	0.31			
PN12-14HDR-2K			0.05	0.225	1/4"	1.20	0.52	0.38			
PN12-56HDR-2K			0.05	0.225	5/16"	1.20	0.52	0.38			
PN12-38HDR-2K			0.05	0.225	3/8"	1.28	0.58	0.38			

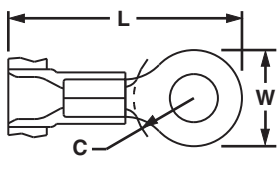
Ring Terminals, Vinyl Insulated – Heavy Duty

LISTED CERTIFIED

Type PV-HDRB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Manufactured from stock 56% thicker than a standard #16 – 14 AWG terminal for use in heavy-duty applications
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV12-6HDRB-2K	16 – 12 AWG	Yellow	0.05	0.225	#6	1.03	0.31	0.36	CD9-3B	CD-800-3	2000
PV12-8HDRB-2K			0.05	0.225	#8	1.03	0.31	0.36			
PV12-10HDRB-2K			0.05	0.225	#10	1.06	0.37	0.36			
PV12-14HDRB-2K			0.05	0.225	1/4"	1.23	0.52	0.43			
PV12-56HDRB-2K			0.05	0.225	5/16"	1.23	0.52	0.43			
PV12-38HDRB-2K			0.05	0.225	3/8"	1.30	0.58	0.38			

Order number of pieces required, in multiples of Standard Package Quantity.

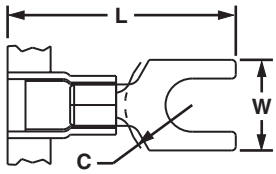
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Fork Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-F

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6FN-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.78	0.25	0.20	CD9-1A	CD-800-1	3000
PN18-6F-3K			0.03	0.145	#6	0.78	0.30	0.20			
PN18-8F-3K			0.03	0.145	#8	0.84	0.32	0.23			
PN18-10FN-3K			0.03	0.145	#10	0.86	0.31	0.25			
PN18-10F-3K			0.03	0.145	#10	0.86	0.35	0.25			
PN18-14F-3K			0.03	0.145	1/4"	1.03	0.44	0.33			
PN14-6FN-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PN14-6F-3K			0.03	0.162	#6	0.78	0.28	0.19			
PN14-8F-3K			0.03	0.162	#8	0.84	0.31	0.23			
PN14-10FN-3K			0.03	0.162	#10	0.86	0.31	0.24			
PN14-10F-3K			0.03	0.162	#10	0.86	0.34	0.24			
PN14-14F-3K			0.03	0.162	1/4"	1.03	0.44	0.32			
PN10-6F-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.00	0.31	0.24	CD9-3B	CD-800-3	2000
PN10-8F-2K			0.04	0.225	#8	1.03	0.37	0.24			
PN10-10F-2K			0.04	0.225	#10	1.04	0.37	0.24			
PN10-14F-2K			0.04	0.225	1/4"	1.14	0.49	0.32			

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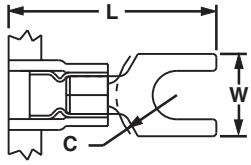
Fork Terminals, Nylon Insulated – Funnel Entry

c UL us LISTED CSA CERTIFIED

Type PNF-F

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-6F-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.77	0.30	0.19	CD9-1A	CD-800-1	3000
PNF18-6FN-3K			0.03	0.145	#6	0.78	0.24	0.19			
PNF18-8F-3K			0.03	0.145	#8	0.83	0.32	0.22			
PNF18-10F-3K			0.03	0.145	#10	0.85	0.35	0.24			
PNF18-14F-3K			0.03	0.145	1/4"	1.02	0.44	0.33			
PNF14-6FN-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PNF14-6F-3K			0.03	0.162	#6	0.78	0.28	0.19			
PNF14-8F-3K			0.03	0.162	#8	0.84	0.31	0.23			
PNF14-10F-3K			0.03	0.162	#10	0.86	0.34	0.24			
PNF14-14F-3K			0.03	0.162	1/4"	1.03	0.44	0.32			
PNF10-6F-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.01	0.31	0.24	CD9-3B	CD-800-3	2000
PNF10-8F-2K			0.04	0.225	#8	1.02	0.37	0.24			
PNF10-14F-2K			0.04	0.225	1/4"	1.13	0.49	0.32			

Order number of pieces required, in multiples of Standard Package Quantity.

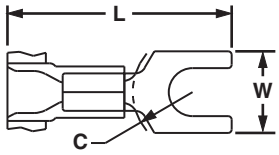
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Fork Terminals, Vinyl Insulated – Funnel Entry

Type PV-FB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-6FB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.78	0.30	0.20	CD9-1A	CD-800-1	3000
PV18-6FNB-3K			0.03	0.150	#6	0.78	0.25	0.20			
PV18-8FB-3K			0.03	0.150	#8	0.84	0.32	0.23			
PV18-10FB-3K			0.03	0.150	#10	0.86	0.35	0.25			
PV18-14FB-3K			0.03	0.150	1/4"	1.03	0.44	0.33			
PV14-6FB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.78	0.24	0.19	CD9-2A	CD-800-2	3000
PV14-6FNB-3K			0.03	0.170	#6	0.78	0.28	0.19			
PV14-8FB-3K			0.03	0.170	#8	0.84	0.31	0.23			
PV14-10FB-3K			0.03	0.170	#10	0.86	0.34	0.24			
PV14-10FNB-3K			0.03	0.170	#10	0.86	0.31	0.24			
PV14-14FB-3K			0.03	0.170	1/4"	1.03	0.44	0.32			
PV10-6FB-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	0.99	0.31	0.22	CD9-3B	CD-800-3	2000
PV10-8FB-2K			0.04	0.225	#8	1.00	0.38	0.22			
PV10-10FB-2K			0.04	0.225	#10	1.04	0.38	0.22			
PV10-14FB-2K			0.04	0.225	1/4"	1.13	0.49	0.32			

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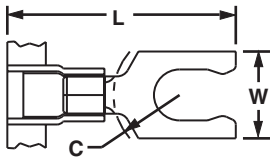
Locking Fork Terminals, Nylon Insulated – Non-Funnel Entry

LISTED CERTIFIED

Type PN-LF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6LF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.82	0.27	0.19	CD9-1A	CD-800-1	3000
PN18-8LF-3K			0.03	0.145	#8	0.89	0.29	0.23			
PN18-10LF-3K			0.03	0.145	#10	0.89	0.33	0.23			
PN14-6LF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PN14-8LF-3K			0.03	0.162	#8	0.92	0.29	0.23			
PN14-10LF-3K			0.03	0.162	#10	0.92	0.33	0.23			
PN10-6LF-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PN10-8LF-2K			0.04	0.225	#8	1.05	0.30	0.21			
PN10-10LF-2K			0.04	0.225	#10	1.05	0.34	0.21			

Order number of pieces required, in multiples of Standard Package Quantity.

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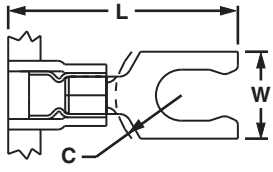
LISTED CERTIFIED

Locking Fork Terminals, Nylon Insulated – Funnel Entry

Type PNF-LF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PNF18-6LF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.85	0.27	0.19	CD9-1A	CD-800-1	3000
PNF18-6LFW-3K			0.03	0.145	#6	0.85	0.29	0.19			
PNF18-8LF-3K			0.03	0.145	#8	0.89	0.29	0.23			
PNF18-10LF-3K			0.03	0.145	#10	0.89	0.33	0.23			
PNF14-6LF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PNF14-8LF-3K			0.03	0.162	#6	0.92	0.29	0.23			
PNF14-10LFN-3K			0.03	0.162	#8	0.92	0.28	0.23			
PNF14-10LF-3K			0.03	0.162	#10	0.92	0.33	0.23			
PNF10-6LF-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PNF10-8LF-2K			0.04	0.225	#8	1.05	0.30	0.21			
PNF10-10LF-2K			0.04	0.225	#10	1.05	0.34	0.21			
PNF10-14LF-2K			0.04	0.225	1/4"	1.19	0.46	0.32			

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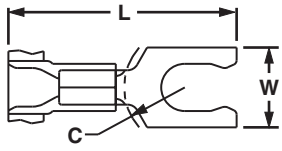
Locking Fork Terminals, Vinyl Insulated – Funnel Entry

LISTED CERTIFIED

Type PV-LFB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Snap in place for secure connection
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PV18-6LFB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.80	0.27	0.19	CD9-1A	CD-800-1	3000
PV18-6LFWB-3K			0.03	0.150	#6	0.83	0.29	0.19			
PV18-8LFB-3K			0.03	0.150	#8	0.87	0.29	0.23			
PV18-10LFNB-3K*			0.03	0.150	#10	0.87	0.29	0.23			
PV18-10LFB-3K			0.03	0.150	#10	0.87	0.33	0.23			
PV14-6LFB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.85	0.25	0.18	CD9-2A	CD-800-2	3000
PV14-6LFWB-3K			0.03	0.170	#6	0.85	0.29	0.18			
PV14-8LFB-3K			0.03	0.170	#8	0.92	0.29	0.23			
PV14-10LFB-3K			0.03	0.170	#10	0.92	0.33	0.23			
PV10-6LFB-2K	12 – 10 AWG	Yellow	0.04	0.225	#6	1.02	0.30	0.21	CD9-3B	CD-800-3	2000
PV10-8LFB-2K			0.04	0.225	#8	1.04	0.30	0.21			
PV10-10LFB-2K			0.04	0.225	#10	1.04	0.34	0.21			
PV10-14LFB-2K			0.04	0.225	1/4"	1.16	0.46	0.32			

*Not UL Listed or CSA Certified.

Order number of pieces required, in multiples of Standard Package Quantity.

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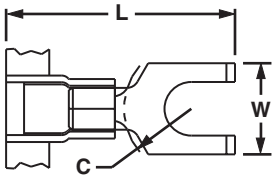
LISTED CERTIFIED

Flanged Fork Terminals, Nylon Insulated – Non-Funnel Entry

Type PN-FF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
						L	W	C			
PN18-6FF-3K	22 – 18 AWG	Red	0.03	0.136	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PN18-8FF-3K			0.03	0.136	#8	0.87	0.31	0.23			
PN18-10FF-3K			0.03	0.136	#10	0.87	0.35	0.23			
PN14-6FF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PN14-8FF-3K			0.03	0.162	#8	0.87	0.31	0.23			
PN14-10FF-3K			0.03	0.162	#10	0.87	0.35	0.23			
PN10-8FF-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.05	0.38	0.22	CD9-3B	CD-800-3	2000
PN10-10FF-2K			0.04	0.225	#10	1.05	0.38	0.22			

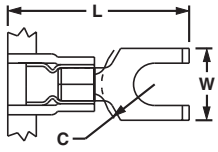
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Flanged Fork Terminals, Nylon Insulated – Funnel Entry

Type PNF-FF

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Metal insulation grip sleeve crimps to wire insulation, providing protection to the crimp joint during high vibration applications
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486A/B





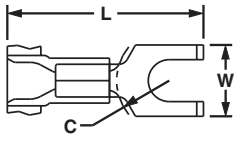
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
PNF18-6FF-3K	22 – 18 AWG	Red	0.03	0.145	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PNF18-8FF-3K			0.03	0.145	#8	0.87	0.31	0.23			
PNF18-10FF-3K			0.03	0.145	#10	0.86	0.35	0.23			
PNF14-6FF-3K	16 – 14 AWG	Blue	0.03	0.162	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PNF14-8FF-3K			0.03	0.162	#8	0.87	0.31	0.23			
PNF14-10FF-3K			0.03	0.162	#10	0.87	0.35	0.23			
PNF10-8FF-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.05	0.38	0.24	CD9-3B	CD-800-3	2000
PNF10-10FF-2K			0.04	0.225	#10	1.05	0.38	0.24			

Flanged Fork Terminals, Vinyl Insulated – Funnel Entry

Type PV-FFB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Flange design provides extra secure connection on a variety of applications
- Fork design provides for fast and easy installation, without the need to remove fastener
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up 600 V per UL 486A/B





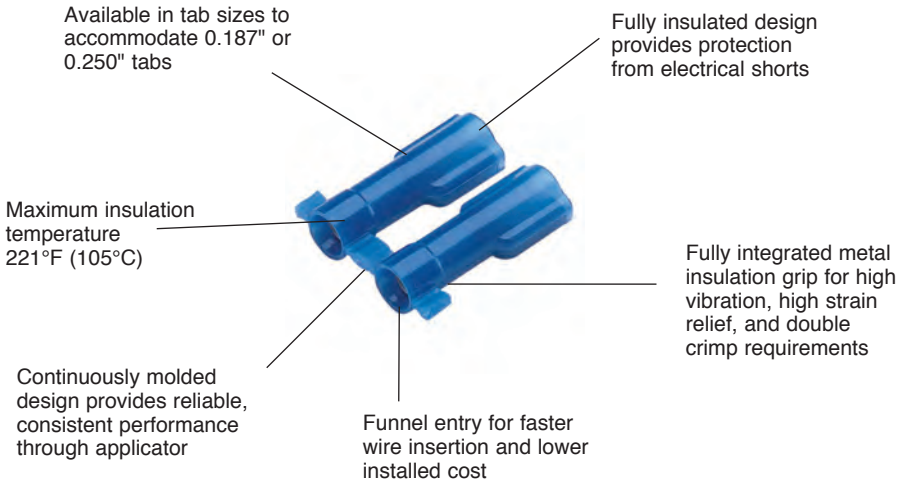
Part Number	Wire Range	Color Code	Stock Thickness (In.)	Max Ins. (In.)	Stud Size	Figure Dimensions (In.) L	W	C	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
PV18-6FFB-3K	22 – 18 AWG	Red	0.03	0.150	#6	0.80	0.28	0.19	CD9-1A	CD-800-1	3000
PV18-8FFB-3K			0.03	0.150	#8	0.87	0.31	0.23			
PV18-10FFB-3K			0.03	0.150	#10	0.86	0.35	0.23			
PV14-6FFB-3K	16 – 14 AWG	Blue	0.03	0.170	#6	0.80	0.28	0.19	CD9-2A	CD-800-2	3000
PV14-8FFB-3K			0.03	0.170	#8	0.87	0.31	0.23			
PV14-10FFB-3K			0.03	0.170	#10	0.87	0.35	0.23			
PV10-8FFB-2K	12 – 10 AWG	Yellow	0.04	0.225	#8	1.03	0.37	0.22	CD9-3B	CD-800-3	2000
PV10-10FFB-2K			0.04	0.225	#10	1.03	0.37	0.22			

Order number of pieces required, in multiples of Standard Package Quantity.

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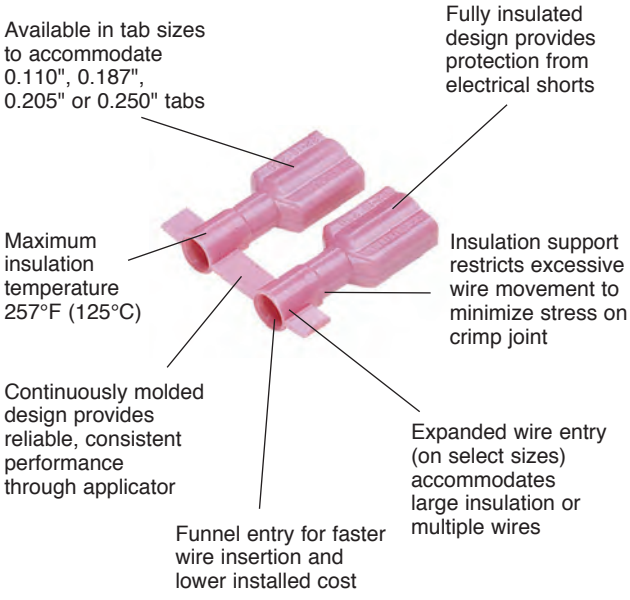
Features and Benefits – Reel Smart™ Disconnects

Supra-Grip™ Nylon Fully Insulated Funnel Entry, Female Receptacle Type DNG-FB



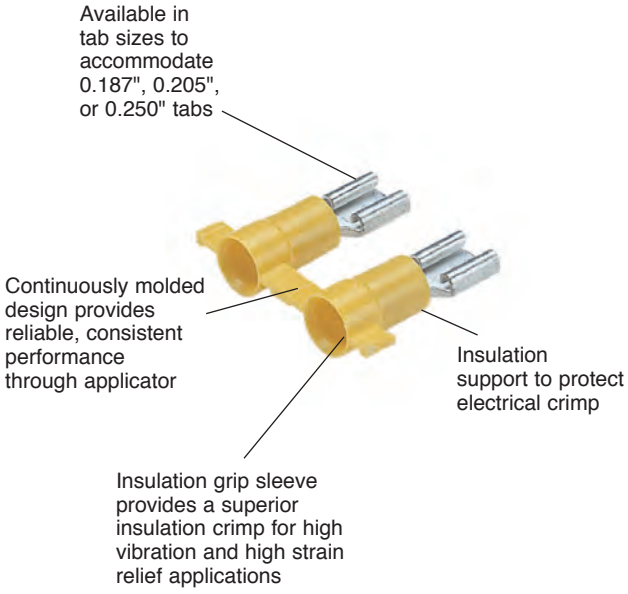
UL and CSA Rated up to 600 V per UL 310.
Flammability UL 94 HB.

Standard and Premium Nylon Fully Insulated, Funnel Entry, Females Receptacles and Male Tabs Type DPF



UL and CSA Rated up to 600 V per UL 310.
Flammability UL 94V-2.

Vinyl Barrel Insulated Funnel Entry, Female Receptacles and Male Tabs Type DV



UL and CSA Rated up to 600 V.
Flammability UL 94V-0.

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Part Number System for Reel Smart™ Disconnects

D	NF	14	—	250	FIB	3K
Type	Insulation	Wire Range		Size and Type	Special Configuration	Std. Pkg. Size

Type

D = Disconnects

Insulation

- NF = Nylon Funnel Entry
- NG = Nylon Funnel Entry Metal Insulation Grip
- NFR = Nylon Funnel Entry Right Angle
- PF = Premium Grade Nylon (Double Crimp)
- V = Vinyl

Wire Range

- 18 = #22 – 18
- 14 = #16 – 14
- 10 = #12 – 10

Size and Type

- 110 = 0.110 x 0.032 tab size
- 111 = 0.110 x 0.020 tab size
- 187 = 0.187 x 0.032 tab size
- 188 = 0.187 x 0.020 tab size
- 205 = 0.187/0.205 x 0.032 tab size
- 206 = 0.187/0.205 x 0.020 tab size
- 250 = 0.250 x 0.032 tab size

0.187/0.205: Expandable receptacle will accept male tabs from 0.187" to 0.205" widths in 0.032" or 0.020" thick styles. Fully reliable connection through all widths.

Special Configuration

- B = Butted seam
- C = Compression tab
- FB = Metal insulation grip, female
- FIB = Fully insulated, butted seam, female
- FIBX = Fully insulated, butted seam, female, expanded wire entry
- FIM = Fully insulated male
- FIMB = Fully insulated, male, oversized housing
- FIMX = Fully insulated, male, expanded wire entry
- M = Male
- MB = Male butted seam

Std. Pkg. Size

- K = 1,000
- KD = 1,500
- 2K = 2,000
- 3K = 3,000

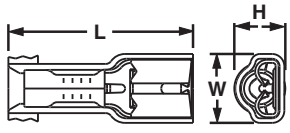
LISTED CERTIFIED

Supra-Grip™ Female Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNG-FB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Flared barrel extension integrated into stamping to provide insulation grip for double crimp requirements
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher-quality connection
- Mates with DNF-FIMB family
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNG18-187FB-3K	22 – 18 AWG	Red	0.126	0.89	0.29	0.22	0.187 x 0.032	4.8 x 0.8	CD9-15A	CD-800-15	3000
DNG18-188FB-3K			0.126	0.89	0.29	0.22	0.187 x 0.020	4.8 x 0.5			
DNG18-250FB-3K			0.126	0.93	0.35	0.23	0.250 x 0.032	6.3 x 0.8			
DNG14-187FB-3K*	16 – 14 AWG	Blue	0.153	0.89	0.29	0.25	0.187 x 0.032	4.8 x 0.8	CD9-16A	CD-800-16	
DNG14-188FB-3K			0.153	0.89	0.29	0.25	0.187 x 0.020	4.8 x 0.5			
DNG14-250FB-3K			0.153	0.93	0.35	0.25	0.250 x 0.032	6.3 x 0.8			

*UL Recognized for copper alloy tabs only.

Order number of pieces required, in multiples of Standard Package Quantity.

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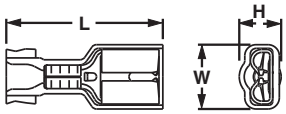
LISTED CERTIFIED

Female Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNF-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Disconnects available in common industry tab sizes
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNF18-110FIB-3K*	22 – 18 AWG	Red	0.120	0.71	0.19	0.15	0.110 x 0.032	2.8 x 0.8	CD9-7A	CD-800-7	3000
DNF18-111FIB-3K*			0.120	0.71	0.19	0.15	0.110 x 0.020	2.8 x 0.5			
DNF18-112FIB-3K*		Natural	0.120	0.71	0.19	0.15	0.110 x 0.010	2.8 x 0.3			
DNF18-187FIB-3K		Red	0.136	0.78	0.29	0.16	0.187 x 0.032	4.8 x 0.8	CD9-4A	CD-800-4	3000
DNF18-188FIB-3K			0.136	0.78	0.29	0.16	0.187 x 0.020	4.8 x 0.5			
DNF18-205FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DNF18-206FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNF18-250FIB-3K**			0.136	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			
DNF14-187FIB-3K	16 – 14 AWG	Blue	0.160	0.78	0.29	0.18	0.187 x 0.032	4.8 x 0.8	CD9-5A	CD-800-5	3000
DNF14-188FIB-3K			0.160	0.78	0.29	0.18	0.187 x 0.020	4.8 x 0.5			
DNF14-205FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DNF14-206FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNF14-250FIB-3K			0.160	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			
DNF10-250FIB-2K	12 – 10 AWG	Yellow	0.220	0.96	0.35	0.23	0.250 x 0.032	6.3 x 0.8	CD9-13B	CD-800-13	2000
DNF10250FIBC-2K‡			0.220	0.96	0.35	0.23	0.250 x 0.032	6.4 x 0.8			

*UL/CSA standards do not exist for 0.110" x 0.010" receptacles.
**UL with 17 AWG wire.
‡Compressor tab disconnect to fit 0.250" tabs with a post style support.

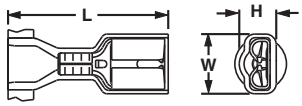
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Disco™ Female Disconnects, Nylon Fully Insulated – Expanded Wire Entry

Type DNF-FIBX

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





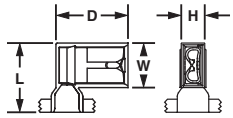
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DNF18205FIBX-2K	22 – 18 AWG	Red	0.210	0.87	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-6B	CD-800-6	2000
DNF18206FIBX-2K			0.210	0.87	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNF18250FIBX-2K			0.210	0.93	0.35	0.22	0.250 x 0.032	6.3 x 0.8			
DNF14205FIBX-2K	16 – 14 AWG	Blue	0.240	0.87	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-8B	CD-800-8	
DNF14206FIBX-2K			0.240	0.87	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNF14250FIBX-2K			0.240	0.93	0.35	0.22	0.250 x 0.032	6.3 x 0.8			

Disco™ Female Disconnects, Nylon Fully Insulated – Right Angle

Type DNFR-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Right angle design for use in limited space applications
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)				Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	D	In.	mm			
DNFR18205FIB-KD	22 – 18 AWG	Red	0.178	0.57	0.37	0.21	0.60	0.187/0.205 x 0.032	4.8/5.2 x 0.8	CD9-9C	CD-800-9	1500
DNFR18206FIB-KD			0.178	0.57	0.37	0.21	0.60	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNFR18250FIB-KD			0.178	0.57	0.37	0.21	0.60	0.250 x 0.032	6.3 x 0.8			
DNFR14205FIB-KD	16 – 14 AWG	Blue	0.178	0.57	0.37	0.21	0.60	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DNFR14206FIB-KD			0.178	0.57	0.37	0.21	0.60	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DNFR14250FIB-KD			0.178	0.57	0.37	0.21	0.60	0.250 x 0.032	6.3 x 0.8			

Order number of pieces required, in multiples of Standard Package Quantity.

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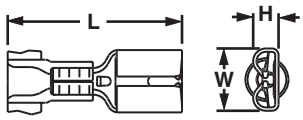
Disco™ Female Disconnects, Vinyl Barrel Insulated – Funnel Entry

LISTED CERTIFIED

Type DV-B

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DV18-187B-3K	22 – 18 AWG	Red	0.150	0.77	0.23	0.10	0.187 x 0.032	4.8 x 0.8	CD9-1A	CD-800-1	3000
DV18-188B-3K			0.150	0.77	0.23	0.09	0.187 x 0.020	4.8 x 0.5			
DV18-205B-3K			0.150	0.77	0.25	0.12	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DV18-206B-3K			0.150	0.77	0.25	0.11	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DV18-250B-3K			0.150	0.83	0.29	0.12	0.250 x 0.032	6.3 x 0.8			
DV14-187B-3K	16 – 14 AWG	Blue	0.170	0.77	0.23	0.10	0.187 x 0.032	4.8 x 0.8	CD9-2A	CD-800-2	3000
DV14-188B-3K			0.170	0.77	0.23	0.09	0.187 x 0.020	4.8 x 0.5			
DV14-205B-3K			0.170	0.77	0.25	0.12	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DV14-206B-3K			0.170	0.77	0.25	0.11	0.187/0.205 x 0.020	4.5/5.2 x 0.5			
DV14-250B-3K			0.170	0.83	0.29	0.12	0.250 x 0.032	6.3 x 0.8			
DV10-250-2K*	12 – 10 AWG	Yellow	0.230	0.95	0.29	0.12	0.250 x 0.032	6.3 x 0.8	CD9-3B	CD-800-3	2000
DV10-250C-2K‡**			0.230	0.95	0.29	0.12	0.250 x 0.032	6.4 x 0.8			

*Not UL Listed or CSA Certified.
**UL Recognized and CSA Certified.
‡Compression tab disconnect to fit 0.250" tabs with a post style support.

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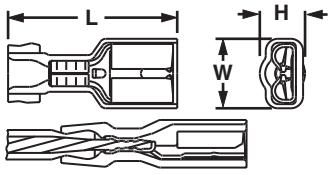
LISTED CERTIFIED

DiscoGrip™ Female Disconnects, Fully Insulated

Type DPF-FIB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Fully insulated design provides protection from electrical shorts
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Cross section of DiscoGrip™ Crimp showing insulation crimp of the wire insulation.

Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			Tab Size		CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	H	In.	mm			
DPF18-110FIB-3K	22 – 18 AWG	Red	0.132	0.71	0.19	0.17	0.110 x 0.032	2.8 x 0.8	CD9-12A	CD-800-12	3000
DPF18-111FIB-3K			0.132	0.71	0.19	0.17	0.110 x 0.020	2.8 x 0.5			
DPF18-187FIB-3K			0.136	0.78	0.29	0.16	0.187 x 0.032	4.8 x 0.8	CD9-10A	CD-800-10	3000
DPF18-188FIB-3K			0.136	0.78	0.29	0.16	0.187 x 0.020	4.8 x 0.5			
DPF18-205FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DPF18-206FIB-3K			0.136	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DPF18-250FIB-3K			0.136	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			
DPF14-187FIB-3K	16 – 14 AWG	Blue	0.160	0.78	0.29	0.18	0.187 x 0.032	4.8 x 0.8	CD9-11A	CD-800-11	3000
DPF14-205FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.032	4.8/5.2 x 0.8			
DPF14-206FIB-3K			0.160	0.78	0.31	0.22	0.187/0.205 x 0.020	4.8/5.2 x 0.5			
DPF14-250FIB-3K			0.160	0.84	0.35	0.22	0.250 x 0.032	6.3 x 0.8			
DPF10-250FIB-2K	12 – 10 AWG	Yellow	0.220	0.96	0.35	0.23	0.250 x 0.032	6.3 x 0.8	CD9-13B	CD-800-13	2000

Order number of pieces required, in multiples of Standard Package Quantity.

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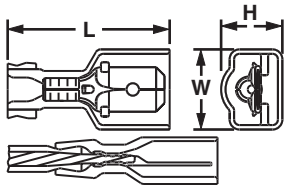
DiscoGrip™ Male Disconnects, Fully Insulated

LISTED CERTIFIED

Type DPF-FIM

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Disconnect can be inserted and removed from the male tab without the use of tools for lower installed cost
- Fully insulated design provides protection from electrical shorts
- Premium nylon insulation retains its shape when crimped and provides a tight grip around the wire insulation for maximum strain relief
- Oversized housing designed for maximum versatility to mate with most commercially available fully insulated female disconnects
- Internal wire stop assures proper length of insertion into terminal barrel, providing a higher quality connection
- Maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Cross section of DiscoGrip™ Crimp showing insulation crimp of the wire insulation.

Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.) L	W	P	Tab Size In.	mm	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
Standard Housing											
DPF18-250FIM-2K	22 – 18 AWG	Red	0.133	0.90	0.41	0.29	0.250 x 0.032	6.3 x 0.8	CD9-10B	CD-800-10	2000
DPF14-250FIM-2K	16 – 14 AWG	Blue	0.156	0.90	0.41	0.29			CD9-11B	CD-800-11	
Oversized Housing											
DPF18-250FIMB-K*	22 – 18 AWG	Red	0.133	0.92	0.46	0.34	0.250 x 0.032	6.3 x 0.8	CD9-10B	CD-800-10	1000
DPF14-250FIMB-K*	16 – 14 AWG	Blue	0.156	0.92	0.46	0.34			CD9-11B	CD-800-11	

*To mate with other manufacturers' fully insulated 0.250 x 0.032 female receptacles.

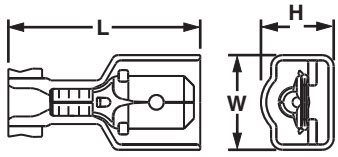
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Disco™ Male Disconnects, Nylon Fully Insulated – Funnel Entry

Type DNF-FIM

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Male tab couples with (all 0.250 x 0.032) female disconnects
- Fully insulated design provides protection from electrical shorts
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.) L	W	P	Tab Size In.	mm	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
Standard Housing											
DNF18-250FIM-2K	22 – 18 AWG	Red	0.133	0.90	0.42	0.30	0.250 x 0.032	6.3 x 0.8	CD9-4B	CD-800-4	2000
DNF14-250FIM-2K	16 – 14 AWG	Blue	0.158	0.90	0.42	0.30			CD9-5B	CD-800-5	
Oversized Housing											
DNF18-250FIMB-K*	22 – 18 AWG	Red	0.135	0.91	0.45	0.34	0.250 x 0.032	6.3 x 0.8	CD9-4B	CD-800-4	1000
DNF14-250FIMB-K*	16 – 14 AWG	Blue	0.160	0.91	0.46	0.34			CD9-5B	CD-800-5	
DNF10-250FIMB-K	12 – 10 AWG	Yellow	0.220	0.96	0.45	0.36			CD9-18B	CD-800-18	

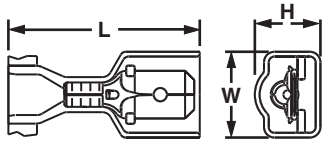
*To mate with other manufacturers' fully insulated 0.250 x 0.032 female receptacles.

Disco™ Male Disconnects, Nylon Fully Insulated – Expanded Wire Entry

Type DNF-FIMX

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Male tab couples with (all 0.250 x 0.032) female disconnects
- Fully insulated design provides protection from electrical shorts
- Male tab can be inserted and removed from the female disconnect without the use of tools for lower installed cost
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL Flammability UL 94 HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 310





Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.) L	W	H	Tab Size In.	mm	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
DNF18250FIMX-2K*	22 – 18 AWG	Red	0.244	0.97	0.41	0.29	0.250 x 0.032	6.3 x 0.8	CD9-8B	CD-800-8	2000
DNF14250FIMX-2K**	16 – 14 AWG	Blue									

*CSA Certified for use with (2) #18 AWG, (2) #20 AWG, or (2) #22 AWG wires.
**CSA Certified for use with (2) #16 AWG or (2) #18 AWG wires.

Order number of pieces required, in multiples of Standard Package Quantity.

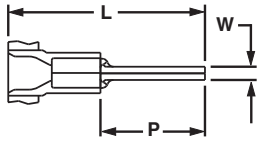
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Pin Terminals, Vinyl Insulated – Funnel Entry

Type PV-PB

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Solid pin designed to prevent damage to the wire from over tightening, resulting in a reliable electrical connection
- For use with pin-type terminal blocks
- Insulation support helps to prevent wire damage in bending applications
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- UL rated up to 600 V per UL 486A/B





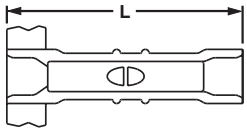
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)			CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L	W	P			
PV18-P47B-3K	22 – 18 AWG	Red	0.150	0.90	0.07	0.49	CD9-1A	CD-800-1	3000
PV14-P47B-3K	16 – 14 AWG	Blue	0.170				CD9-2A	CD-800-2	

Butt Splices Nylon Insulated and Premium Grade Nylon

Type BSN, BSP

- Continuously molded design provides reliable, consistent performance through the applicator for a high quality termination every time
- Designed to splice two solid or stranded wires together to repair or lengthen wires
- Butted configuration provides low profile for limited space applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- Internal wire stop assures proper length of insertion into terminal barrel
- Premium grade nylon insulation available for applications requiring a tighter grip around the wire insulation for maximum strain relief
- UL Flammability UL 94HB, maximum insulation temperature 221°F (105°C)
- UL and CSA rated up to 600 V per UL 486C





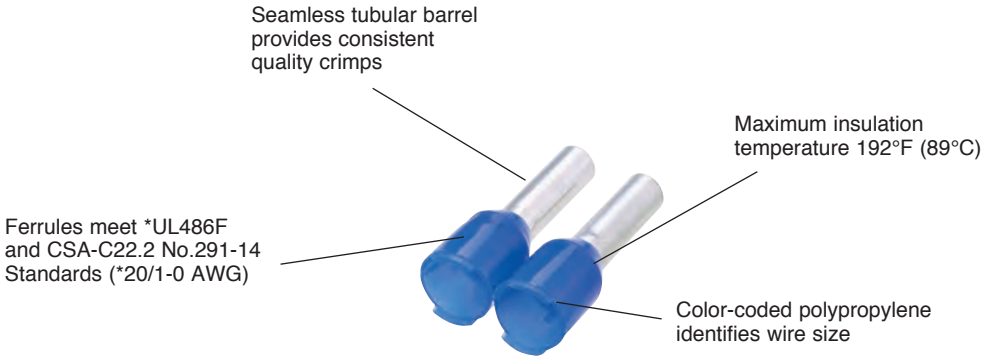
Part Number	Wire Range	Color Code	Max Ins. (In.)	Figure Dimensions (In.)	CA9 Series Crimp Die	CA-800/EZ Series Crimp Die	Pieces Per Reel
				L			
BSN18-3K	22 – 16 AWG	Red	0.150	0.95	CD9-1A	CD-800-1	3000
BSN14-3K	18 – 14 AWG	Blue	0.170	0.95	CD9-2A	CD-800-2	
BSN10-2K	12 – 10 AWG	Yellow	0.230	0.95	CD9-17B	CD-800-17	2000
BSP18-3K	22 – 16 AWG	Red	0.150	0.96	CD9-1A	CD-800-1	3000
BSP14-3K	18 – 14 AWG	Blue	0.170	0.96	CD9-2A	CD-800-2	

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Features and Benefits – Reel Smart™ Ferrules

Panduit® ferrules are available in strips and reels for wiring applications from #20 – 14 AWG. Offerings include insulated ferrules in single wire configurations. These insulated ferrules are color-coded to DIN standards.

Insulated Ferrules – Single Wire
Type FSD



Part Number System for Reel Smart® Ferrules

F	S	D	75	–	8	3K or DSL	10
Type	**Wire Type**	**Color Code**	**Wire Size (mm²)**		**PIN Length**	**Std. Pkg. Size**	**Color-Code Number**
F = Ferrule	S = Single	D = DIN = Standard (leave blank)				3K = 3,000 2KD = 2500 KD = 1500 K = 1000 DSL = 500 DK = 500	0 = Black 2 = Red 6 = Blue 8 = Gray 10 = White

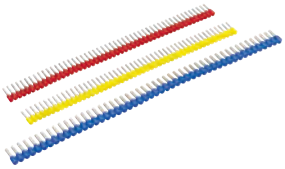
Order number of pieces required, in multiples of Standard Package Quantity.

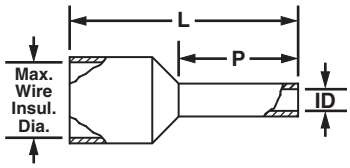
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Insulated Ferrules on Strips – Single Wire

Type FS

- Polypropylene insulation housing available in DIN standard colors in strips of 50
- UI determines the continuously molded design provides consistent placement of ferrules in tool to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations
- Designed for use with the Semiautomatic Ferrule Crimping Tool CT-1000 for medium volume applications





Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
						L		P		ID					
	AWG	mm2		In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
DIN End Sleeves:															
FSD75-8-DSL10	22- 20 AWG	0.50	White	0.10	2.6	0.60	15.2	0.31	8.0	0.04	1.0	13/32	10.0	CT-1000	500
FSD76-8-DSL8	18 AWG	0.75	Gray	0.11	2.7	0.60	15.2	0.31	8.0	0.06	1.5	13/32	10.0		
FSD77-8-DSL2	–	1.00	Red	0.12	3.0	0.60	15.2	0.31	8.0	0.07	1.8	13/32	10.0		
FSD78-8-DSL0	16 AWG	1.50	Black	0.13	3.2	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		
FSD80-8-DSL6	14 AWG	2.50	Blue	0.16	4.0	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		

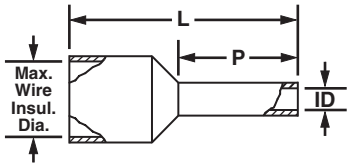
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Insulated Ferrules on Reels – Single Wire and Mini Reels

Type FS

- Polypropylene insulation housing available in DIN standard colors in reels of 500 - 3000
- Designed specifically for use with the Ferrule Applicator APM-MSRP1516JMD for high volume applications
- Continuously molded design provides consistent placement of ferrules in applicator to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations





Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		APM-MRSP1516JMD Applicator Funnel Required	***SCA-712022002 (CA10) Applicator	CP-881 Inserts	Pieces per Reel
						L		P		ID							
	AWG	mm²		In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.				
DIN End Sleeves:																	
FSD75-8-3K10	20 AWG	0.5	White	0.09	2.4	0.57	14.5	0.31	8	0.04	1.1	13/32	10.0	APM-K008701	SCA-712022005WE (CD10-1)	White	3000
FSD76-8-3K8	18 AWG	0.75	Gray	0.1	2.6	0.57	14.5	0.31	8	0.05	1.3	13/32	10.0	APM-K008175		Gray	
FSD77-8-3K2	–	1	Red	0.11	2.8	0.57	14.5	0.31	8	0.06	1.5	13/32	10.0	APM-K006667	SCA-712022006WE (CD10-2)	Red	
FSD78-8-2KD0	16 AWG	1.5	Black	0.13	3.2	0.57	14.5	0.31	8	0.07	1.8	13/32	10.0			Black	2500
FSD80-8-KD6	14 AWG	2.5	Blue	0.15	3.9	0.57	14.5	31	8	0.09	2.3	13/32	10.0	APM-K008585	SCA-712022007WE (CD10-3)	Blue	1500

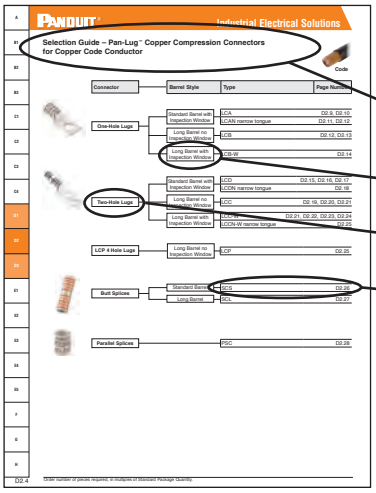
***SCA-712022002 (CA10 applicator) is no longer available. However, compatible dies are available.

Part Number	Wire Size		Color	Max. Wire Ins. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Pieces per Reel
						L		P		ID					
	AWG	mm²		In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
Mini Reels															
FSD75-8-K	20 AWG	0.5	White	0.09	2.4	0.57	14.5	0.31	8	0.04	1.1	13/32	10.0	CP-881	1000
FSD76-8-K	18 AWG	0.75	Gray	0.1	2.6	0.57	14.5	0.31	8	0.05	1.3	13/32	10.0		
FSD77-8-K	–	1	Red	0.11	2.8	0.57	14.5	0.31	8	0.06	1.5	13/32	10.0		
FSD78-8-K	16 AWG	1.5	Black	0.13	3.2	0.57	14.5	0.31	8	0.07	1.8	13/32	10.0		
FSD80-8-DK	14 AWG	2.5	Blue	0.15	3.9	0.57	14.5	31	8	0.09	2.3	13/32	10.0	CP-881	500

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Compression Connector Reference Information



Selection Guide

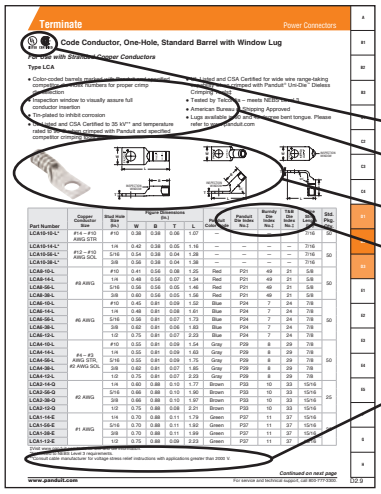
- Provides a quick and easy method to select the proper connector to meet the specific application requirements

Conductor Type

Barrel Style

Stud Hole Configuration

Product Type and Page Number



Product Page

- Includes all necessary information for part identification and selection

Agency Listings

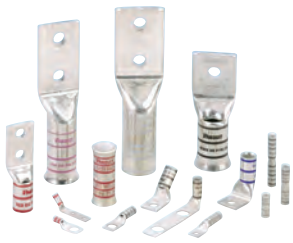
Features and Benefits

Full Color Photo and 2-View Drawing

Panduit and Competitor Die Information

Page Reference for Panduit and Competitor Installation Tooling and Die Selection Charts

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Compression Connectors

Panduit® Pan-Lug™ Compression Connectors provide permanent terminations for a variety of power and grounding applications, with innovation, highest reliability, and lowest installed cost. Panduit offers the first and only copper compression lugs and splices that meet Network Equipment-Building Systems (NEBS) Level 3 requirements as tested by Telcordia Technologies. NEBS Level 3 assures that product performance is suitable for equipment applications that demand minimal service interruptions over the life span of the equipment.

- **Functional product information is marked directly on the connector, facilitating the identification, ordering, and usage of the compression connector**
- **Color-coded to facilitate quick identification of the proper crimping die**
- **Made from high strength, high conductivity electrolytic copper and aluminum alloy materials to provide optimum connectivity for power and grounding applications**
- **UL Listed or Recognized, CSA Certified, ABS Type Approved and tested by Telcordia – meets NEBS Level 3, as noted**
- **Terminations using Panduit® Pan-Lug™ Compression Connectors are also UL Listed and CSA Certified with specified competitor tools**
- **Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools for reliable connections at the lowest installed cost**

Panduit® Pan-Lug™ Compression Connectors are designed for use with many different code and flex conductor types and are available in a broad range of styles and sizes including copper one-hole, two-hole, and blank tongue lugs and splices; aluminum one-hole and two-hole lugs and splices; and copper in-line reducing splices. Panduit offers a wide assortment of Pan-Lug™ Power Connectors to meet customer needs and today's application requirements.

Order number of pieces required, in multiples of Standard Package Quantity.

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Features and Benefits – Pan-Lug™ Compression Connectors

Bolded features are unique to Panduit.

Copper Lugs



Color-coded bands for proper die selection and crimp placement

Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection

Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion

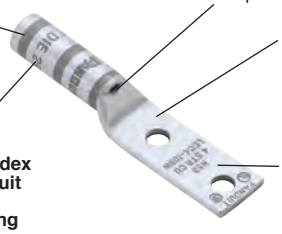
Internally beveled barrel end for easy conductor insertion (types LCCF and LCAF available with flared entry for flex conductor)

Inspection windows available to assure complete conductor insertion

Part number, stud size, and conductor size marked on part for easy identification

LISTED CERTIFIED

Flex Lugs



Color-coded bands for proper die selection and crimp placement

Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection

Inspection window to assure complete conductor insertion

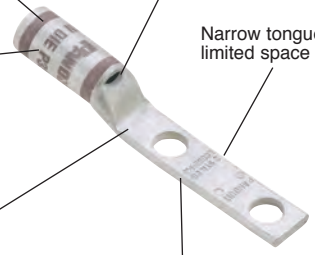
Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion

Product information marked on part for easy identification

Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive

LISTED CERTIFIED

Narrow Tongue Lugs



Color-coded bands for proper die selection and crimp placement

Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection

Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion

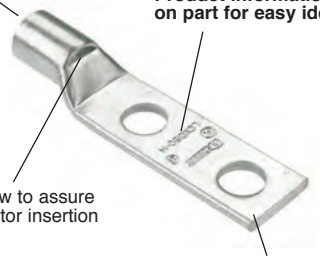
Inspection window to assure complete conductor insertion

Narrow tongue width for limited space applications

Product information marked on part for easy identification

LISTED CERTIFIED

Copper Metric Lugs



Internally beveled barrel ends for easy conductor insertion

Product information marked on part for easy identification

Inspection window to assure complete conductor insertion

Made from 99.9% pure copper for high quality connection and tin-plated to inhibit corrosion

LISTED CERTIFIED

Copper Parallel Splice



Chamfered on both ends for fast and easy conductor insertion

Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion

Largest part marking in the industry – easier to read in low light conditions

Intuitive part numbering for fast and accurate part selection in the field

Industry recognized color-coding for selection

LISTED CERTIFIED

Aluminum Lugs



Easy-to-read die index numbers for Panduit and specified competitor crimping dies for selection

Part number and conductor size marked on part for easy identification

Made from seamless wrought aluminum and electro tin-plated to inhibit corrosion

Crimping areas marked on part for proper crimp placement

Factory pre-filled with oxide inhibitor to prevent oxidation

c UL us LISTED



Compression connector crimping tools speed installation and reduce total installed cost. Visit www.panduit.com/tools.



Panduit designs and manufactures a full line of labeling products, software and printers to assist you with your labeling requirements.
See pages E1.1 – E2.29.



Heat shrink tubing provides an economical and easy way to insulate, protect, harness and color code electrical and electronic components.
See pages C3.20 – C3.41.

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Selection Guide – Pan-Lug™ Copper Compression Connectors for Copper Code Conductor



Code

Connector	Barrel Style	Type	Page Number
 One-Hole Lugs	Standard Barrel with Inspection Window	LCA	D2.9, D2.10
		LCAN narrow tongue	D2.11, D2.12
	Long Barrel no Inspection Window	LCB	D2.12, D2.13
	Long Barrel with Inspection Window	LCB-W	D2.14
 Two-Hole Lugs	Standard Barrel with Inspection Window	LCD	D2.15, D2.16, D2.17
		LCDN narrow tongue	D2.18
	Long Barrel no Inspection Window	LCC	D2.19, D2.20, D2.21
	Long Barrel with Inspection Window	LCC-W	D2.21, D2.22, D2.23, D2.24
		LCCN-W narrow tongue	D2.25
 LCP 4 Hole Lugs	Long Barrel no Inspection Window	LCP	D2.25
 Butt Splices	Standard Barrel	SCS	D2.26
	Long Barrel	SCL	D2.27
 Parallel Splices		PSC	D2.28

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Selection Guide – Pan-Lug™ Copper Compression Connectors for Copper Code and/or Flex Conductor


Code


Flex

Connector	Barrel Style	Type	Page Number
 One-Hole Lugs	Standard Barrel with Inspection Window Code and Flex	LCAX	D2.30, D2.31
		LCAXN narrow tongue	D2.32
	Long Barrel with Inspection Window Code and Flex	LCBX	D2.33, D2.34
 Two-Hole Lugs	Standard Barrel with Inspection Window Code and Flex	LCDX	D2.34, D2.35, D2.36
		LCDXN narrow tongue	D2.37
	Long Barrel with Inspection Window Code and Flex	LCCX	D2.38, D2.39
		LCCXN narrow tongue	D2.40
 Uninsulated Butt Splices		SCSX	D2.41
 Butt Splices for Code and Flex		SCSF	D2.42
 Reducing Splices with Inspection Window for Code and Flex		RSCK kits with reducing splice and clear heat shrink	D2.43, D2.44
		RSC reducing splices	D2.45, D2.46
 One-Hole Metric Lugs	Long Barrel	LCMB	D2.53, D2.54
		LCMA	D2.47, D2.48
		LCMA-H	D2.49, D2.50
		LCMA-F	D2.51, D2.52
 Two-Hole Metric Lugs		LCMD	D2.55, D2.56
	Long Barrel	LCMC	D2.57, D2.58
 Metric Splices		SCMS	D2.59

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Selection Guide – Pan-Lug™ Aluminum Compression Connectors for Aluminum or Copper Code Conductor

Connector	Type	Page Number
 One-Hole Lugs	LAA	D2.60, D2.61
 Two-Hole Lugs	LAB	D2.61
 Butt Splices	SA	D2.63
 B-Metallic Pin Connectors for Aluminum Conductors Only	BPC	D2.64
Hardware		
 Belleville Washers	CW	D2.62
Silicon Bronze Hardware		
 SBBOLT Hex Bolts	SBBOLT	D2.102
SBNUT Hex Nuts	SBNUT	D2.103
 SBFW Flat Washers	SBFW	D2.103
SBSLW Split Lockwashers	SBSLW	D2.103
 SBITW Internal Tooth Lockwashers	SBITW	D2.103
Stainless Steel Hardware		
 SSBOLT Hex Bolts	SSBOLT	D2.104
 SSN Hex Nuts	SSN	D2.105
 SSFW Flat Washers	SSFW	D2.105
 SSSLW Split Lockwashers	SSSLW	D2.105
 Joint Compounds	CMP	D2.62, D2.99

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number System for Pan-Lug™ Compression Lugs

LCD	2/0	–	38	D	F	–	X
Type	Conductor Size		Stud Hole Size	Two Stud Hole Spacing	Tongue Angle		Standard Package Size

example:
LCD = Lug, Copper
Two-Hole
Standard Barrel

Conductor Size	Stud Hole Size	Two Stud Hole Spacing	Tongue Angle	Standard Package Size
2/0 = 2/0 AWG	10 = #10	A = 0.625"	H = 45°	1 = 1
	14 = 1/4"	B = 0.750"	F = 90°	3 = 3
	56 = 5/16"	C = 0.875"	No Letter = Straight	5 = 5
	38 = 3/8”	D = 1.0"		6 = 6
	12 = 1/2"	E = 1.25"		X = 10
	58 = 5/8"	G = 1.5"		E = 20
	34 = 3/4"	J = 0.5"		Q = 25
	78 = 7/8"	K = 2"		L = 50
	00 = Blank Tongue	M = 1.375"		C = 100
	5 = M5	P = 0.688"		
	6 = M6	Q = 1.125"		
	8 = M8	No Letter = 1.75" or 44.5mm		
	10 = M10	CD = 22.0-25.0mm		
	12 = M12			
	14 = M14			
	16 = M16			
	20 = M20			

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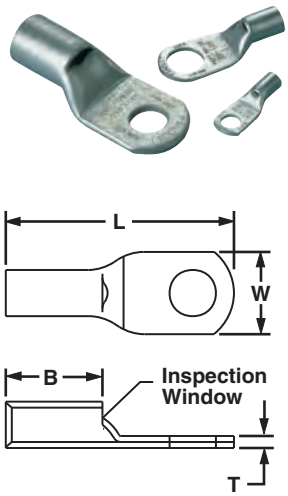
Code Conductor, One-Hole, Tubular Ring Terminal with Inspection Window

LISTED CERTIFIED

For Use with Stranded Copper Conductors

Type S-R

- Seamless tubular barrel provides a consistent high performance quality crimp
- Round double thick tongue for reliable power applications
- Barrel of terminal internally beveled to provide quick and easy wire insertion
- Inspection window allows visual inspection of proper wire insertion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with specified Panduit® crimping tools and dies
- Tin plated to inhibit corrosion



Part Number	Wire Range	Stud Hole Size	Tongue Width (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			W	L	B	T	
S8-10R-Q	8 AWG	#10	0.41	1.10	0.40	0.08	25
S8-14R-Q		1/4"	0.48	1.20	0.40	0.07	
S8-56R-Q		5/16"	0.60	1.30	0.40	0.05	
S8-38R-Q		3/8"	0.60	1.40	0.40	0.05	
S6-10R-E	6 AWG	#10	0.45	1.20	0.48	0.09	20
S6-14R-E		1/4"	0.48	1.30	0.48	0.08	
S6-56R-E		5/16"	0.56	1.40	0.48	0.07	
S6-38R-E		3/8"	0.62	1.50	0.48	0.06	
S4-10R-E	4 AWG	#10	0.55	1.20	0.48	0.09	20
S4-14R-E		1/4"	0.55	1.30	0.48	0.09	
S4-56R-E		5/16"	0.55	1.40	0.48	0.09	
S4-38R-E		3/8"	0.62	1.50	0.48	0.07	
S2-10R-X	1 – 2 AWG	#10	0.70	1.60	0.48	0.11	10
S2-14R-X		1/4"	0.70	1.60	0.59	0.11	
S2-56R-X		5/16"	0.70	1.70	0.59	0.11	
S2-38R-X		3/8"	0.70	1.70	0.59	0.11	
S2-12R-X		1/2"	0.79	1.90	0.59	0.09	
S1/0-14R-X	1/0 AWG	1/4"	0.76	1.60	0.58	0.12	10
S1/0-56R-X		5/16"	0.76	1.70	0.58	0.12	
S1/0-38R-X		3/8"	0.76	1.70	0.58	0.12	
S1/0-12R-X		1/2"	0.82	1.90	0.58	0.12	
S2/0-14R-X	2/0 AWG	1/4"	0.85	1.90	0.66	0.13	10
S2/0-56R-X		5/16"	0.85	1.90	0.66	0.13	
S2/0-38R-X		3/8"	0.85	1.90	0.66	0.13	
S2/0-76R-X		7/16"	0.85	2.10	0.83	0.13	
S2/0-12R-X		1/2"	0.85	2.10	0.83	0.13	
S3/0-14R-5	3/0 AWG	1/4"	0.96	2.10	0.83	0.13	5
S3/0-56R-5		5/16"	0.96	2.10	0.83	0.13	
S3/0-38R-5		3/8"	0.96	2.10	0.83	0.13	
S3/0-76R-5		7/16"	0.96	2.30	0.91	0.13	
S3/0-12R-5		1/2"	0.96	2.30	0.91	0.13	
S4/0-56R-5	4/0 AWG	5/16"	1.06	2.30	0.91	0.14	5
S4/0-38R-5		3/8"	1.06	2.30	0.91	0.14	
S4/0-76R-5		7/16"	1.06	2.50	0.91	0.14	
S4/0-12R-5		1/2"	1.06	2.50	0.91	0.14	
S250-56R-5	250 kcmil	5/16"	1.17	2.50	1.01	0.14	5
S250-38R-5		3/8"	1.17	2.50	1.01	0.14	
S250-76R-5		7/16"	1.17	2.60	1.01	0.14	
S250-12R-5		1/2"	1.17	2.60	1.01	0.14	

For crimping tool information, visit www.panduit.com/tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, One-Hole, Standard Barrel with Window Lug

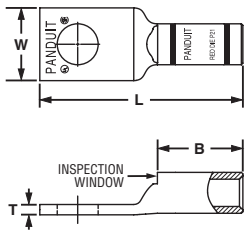
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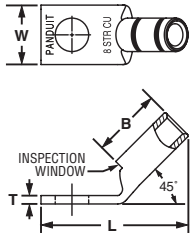
For Use with Stranded Copper Conductors

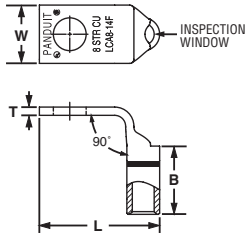
Type LCA

- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping Approved
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCA10-10-L*	#14 – #10 AWG STR	#10	0.38	0.38	0.06	1.07	—	—	—	—	7/16	50
LCA10-14-L*	#12 – #10 AWG SOL	1/4	0.42	0.38	0.05	1.16	—	—	—	—	7/16	50
LCA10-56-L*		5/16	0.54	0.38	0.04	1.28	—	—	—	—	7/16	
LCA10-38-L*		3/8	0.56	0.38	0.04	1.38	—	—	—	—	7/16	
LCA8-10-L	#8 AWG	#10	0.41	0.56	0.08	1.25	Red	P21	49	21	5/8	50
LCA8-14-L		1/4	0.48	0.56	0.07	1.34	Red	P21	49	21	5/8	
LCA8-56-L		5/16	0.56	0.56	0.05	1.46	Red	P21	49	21	5/8	
LCA8-38-L		3/8	0.60	0.56	0.05	1.56	Red	P21	49	21	5/8	
LCA6-10-L	#6 AWG	#10	0.45	0.81	0.09	1.52	Blue	P24	7	24	7/8	50
LCA6-14-L		1/4	0.48	0.81	0.08	1.61	Blue	P24	7	24	7/8	
LCA6-56-L		5/16	0.56	0.81	0.07	1.73	Blue	P24	7	24	7/8	
LCA6-38-L		3/8	0.62	0.81	0.06	1.83	Blue	P24	7	24	7/8	
LCA6-12-L		1/2	0.75	0.81	0.07	2.23	Blue	P24	7	24	7/8	
LCA4-10-L	#4 – #3 AWG STR, #2 AWG SOL	#10	0.55	0.81	0.09	1.54	Gray	P29	8	29	7/8	50
LCA4-14-L		1/4	0.55	0.81	0.09	1.63	Gray	P29	8	29	7/8	
LCA4-56-L		5/16	0.55	0.81	0.09	1.75	Gray	P29	8	29	7/8	
LCA4-38-L		3/8	0.62	0.81	0.07	1.85	Gray	P29	8	29	7/8	
LCA4-12-L		1/2	0.75	0.81	0.07	2.23	Gray	P29	8	29	7/8	
LCA2-14-Q	#2 AWG	1/4	0.60	0.88	0.10	1.77	Brown	P33	10	33	15/16	25
LCA2-56-Q		5/16	0.66	0.88	0.10	1.90	Brown	P33	10	33	15/16	
LCA2-38-Q		3/8	0.66	0.88	0.10	1.97	Brown	P33	10	33	15/16	
LCA2-12-Q		1/2	0.75	0.88	0.08	2.21	Brown	P33	10	33	15/16	
LCA1-14-E	#1 AWG	1/4	0.70	0.88	0.11	1.79	Green	P37	11	37	15/16	20
LCA1-56-E		5/16	0.70	0.88	0.11	1.92	Green	P37	11	37	15/16	
LCA1-38-E		3/8	0.70	0.88	0.11	1.99	Green	P37	11	37	15/16	
LCA1-12-E		1/2	0.75	0.88	0.09	2.23	Green	P37	11	37	15/16	

‡Visit www.panduit.com/tools for tool and die information.
*Not tested to NEBS Level 3 requirements.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, One-Hole, Standard Barrel with Window Lug (continued)

Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCA1/0-14-X	1/0 AWG	1/4	0.76	0.94	0.12	1.95	Pink	P42	12	42	1	10
LCA1/0-56-X		5/16	0.76	0.94	0.12	2.00						
LCA1/0-38-X		3/8	0.76	0.94	0.12	2.08						
LCA1/0-12-X		1/2	0.80	0.94	0.12	2.31						
LCA2/0-14-X	2/0 AWG	1/4	0.85	0.98	0.13	2.09	Black	P45	13	45	1 1/16	10
LCA2/0-56-X		5/16	0.85	0.98	0.13	2.09						
LCA2/0-38-X		3/8	0.85	0.98	0.13	2.15						
LCA2/0-12-X		1/2	0.85	0.98	0.13	2.40						
LCA3/0-14-X	3/0 AWG	1/4	0.96	1.14	0.13	2.28	Orange	P50	14	50	1 3/16	10
LCA3/0-56-X		5/16	0.96	1.14	0.13	2.28						
LCA3/0-38-X		3/8	0.96	1.14	0.13	2.34						
LCA3/0-12-X		1/2	0.96	1.14	0.13	2.59						
LCA4/0-14-X	4/0 AWG	1/4	1.06	1.19	0.14	2.36	Purple	P54	15	54	1 1/4	10
LCA4/0-56-X		5/16	1.06	1.19	0.14	2.38						
LCA4/0-38-X		3/8	1.06	1.19	0.14	2.45						
LCA4/0-12-X		1/2	1.06	1.19	0.14	2.68						
LCA250-14-X	250 kcmil	1/4	1.17	1.25	0.14	2.47	Yellow	P62	16	62	1 5/16	10
LCA250-56-X		5/16	1.17	1.25	0.14	2.48						
LCA250-38-X		3/8	1.17	1.25	0.14	2.55						
LCA250-12-X		1/2	1.17	1.25	0.14	2.78						
LCA300-56-X	300 kcmil	5/16	1.19	1.44	0.16	2.94	White	P66	17	66	1 1/2	10
LCA300-38-X		3/8	1.19	1.44	0.16	2.94						
LCA300-12-X		1/2	1.19	1.44	0.16	3.05						
LCA300-58-X		5/8	1.19	1.44	0.16	3.26						
LCA300-78-X		7/8	1.19	1.44	0.16	3.70						
LCA350-38-X	350 kcmil	3/8	1.28	1.44	0.17	2.98	Red	P71	18	71	1 1/2	10
LCA350-12-X		1/2	1.28	1.44	0.17	3.09						
LCA350-58-X		5/8	1.28	1.44	0.17	3.30						
LCA350-78-X		7/8	1.28	1.44	0.17	3.74						
LCA400-38-6	400 kcmil	3/8	1.39	1.50	0.18	3.22	Blue	P76	19	76	1 9/16	6
LCA400-12-6		1/2	1.39	1.50	0.18	3.22						
LCA400-58-6		5/8	1.39	1.50	0.18	3.43						
LCA400-78-6		7/8	1.39	1.50	0.18	3.82						
LCA500-38-6	500 kcmil	3/8	1.54	1.75	0.22	3.39	Brown	P87	20	87	1 13/16	6
LCA500-12-6		1/2	1.54	1.75	0.22	3.55						
LCA500-58-6		5/8	1.54	1.75	0.22	3.76						
LCA500-34-6		3/4	1.54	1.75	0.22	3.90						
LCA500-78-6		7/8	1.54	1.75	0.22	4.15						
LCA500-1-6		1	1.54	1.75	0.22	4.27						
LCA600-12-6	600 kcmil	1/2	1.70	1.75	0.26	4.20	Green	P94	22	94	1 13/16	6
LCA600-58-6		5/8	1.70	1.75	0.26	4.20						
LCA600-78-6		7/8	1.70	1.75	0.26	4.20						
LCA750-38-6	750 kcmil	3/8	1.89	1.88	0.26	3.85	Black	P106	24	106	1 15/16	6
LCA750-58-6		5/8	1.89	1.88	0.26	4.59						

‡Visit www.panduit.com/tools for tool and die information.

Order number of pieces required, in multiples of Standard Package Quantity.

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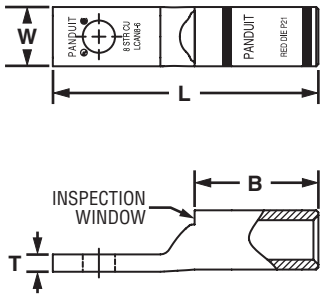
Code Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug

For Use with Stranded Copper Conductors

Type LCAN

- Narrow tongue width for limited space applications
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡





Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCAN8-6-L	#8 AWG	#6	0.27	0.56	0.10	1.24	Red	P21	49	21	5/8	50
LCAN6-6-L	#6 AWG	#6	0.31	0.81	0.10	1.51	Blue	P24	7	24	7/8	50
LCAN4-10-L	#4 – #3 AWG STR, #2 AWG SOL	#10	0.40	0.81	0.11	1.54	Gray	P29	8	29	7/8	50
LCAN4-14-L		1/4	0.40	0.81	0.11	1.63						
LCAN2-10-Q	#2 AWG	#10	0.42	0.88	0.12	1.67	Brown	P33	10	33	15/16	25
LCAN2-14-Q		1/4	0.42	0.88	0.12	1.77						
LCAN1-10-E	#1 AWG	#10	0.47	0.88	0.11	1.69	Green	P37	11	37	15/16	20
LCAN1-14-E		1/4	0.47	0.88	0.12	1.79						
LCAN1/0-10-X	1/0 AWG	#10	0.52	0.94	0.13	1.78	Pink	P42	12	42	1	10
LCAN1/0-14-X		1/4	0.52	0.94	0.13	1.95						
LCAN1/0-56-X		5/16	0.52	0.94	0.13	2.00						
LCAN2/0-10-X	2/0 AWG	#10	0.58	0.98	0.13	1.84	Black	P45	13	45	1 1/16	10
LCAN2/0-14-X		1/4	0.58	0.98	0.14	2.09						
LCAN2/0-56-X		5/16	0.58	0.98	0.14	2.09						
LCAN2/0-38-X		3/8	0.58	0.98	0.13	2.15						
LCAN3/0-14-X	3/0 AWG	1/4	0.64	1.14	0.14	2.28	Orange	P50	14	50	1 3/16	10
LCAN3/0-56-X		5/16	0.64	1.14	0.13	2.28						
LCAN3/0-38-X		3/8	0.64	1.14	0.13	2.34						
LCAN4/0-14-X	4/0 AWG	1/4	0.71	1.19	0.14	2.36	Purple	P54	15	54	1 1/4	10
LCAN4/0-56-X		5/16	0.71	1.19	0.14	2.38						
LCAN4/0-38-X		3/8	0.71	1.19	0.15	2.45						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

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Code Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug (continued)

Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
LCAN250-14-X	250 kcmil	1/4	0.77	1.25	0.14	2.47	Yellow	P62	16	62	1 5/16	10
LCAN250-38-X		3/8	0.77	1.25	0.15	2.55						
LCAN300-14-X	300 kcmil	1/4	0.81	1.44	0.16	2.90	White	P66	17	66	1 1/2	10
LCAN300-38-X		3/8	0.81	1.44	0.16	2.94						
LCAN350-38-X	350 kcmil	3/8	0.88	1.44	0.17	2.98	Red	P71	18	71	1 1/2	10
LCAN350-12-X		1/2	0.88	1.44	0.17	3.09						
LCAN400-38-6	400 kcmil	3/8	0.95	1.50	0.18	3.22	Blue	P76	19	76	1 9/16	6
LCAN400-12-6		1/2	0.95	1.50	0.18	3.22						
LCAN500-38-6	500 kcmil	3/8	1.06	1.75	0.23	3.39	Brown	P87	20	87	1 13/16	6
LCAN500-12-6		1/2	1.06	1.75	0.22	3.55						
LCAN600-38-6	600 kcmil	3/8	1.19	1.75	0.27	3.44	Green	P94	22	94	1 13/16	6
LCAN600-12-6		1/2	1.19	1.75	0.27	4.20						
LCAN750-38-6	750 kcmil	3/8	1.30	1.88	0.28	3.84	Black	P106	24	106	1 15/16	6
LCAN750-12-6		1/2	1.30	1.88	0.28	4.03						
LCAN750-58-6		5/8	1.30	1.88	0.28	4.59						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

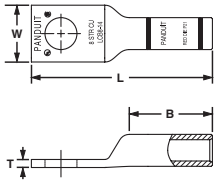
Code Conductor, One-Hole, Long Barrel Lug

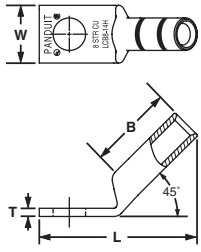
For Use with Stranded Copper Conductors

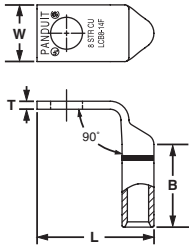
Type LCB

- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Enclosed barrel prevents corrosive material from entering barrel when used in harsh environments
- Tin-plated to inhibit corrosion
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping Approved









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
LCB8-10-L	#8 AWG	#10	0.41	0.70	0.08	1.44	Red	P21	49	21	3/4	50
LCB8-14-L		1/4	0.48	0.70	0.07	1.53						
LCB8-38-L		3/8	0.60	0.70	0.05	1.75						
LCB6-12-L	#6 AWG	1/2	0.75	1.07	0.07	2.38	Blue	P24	7	24	1 1/8	50
LCB6-10-L	#6 AWG	#10	0.45	1.07	0.09	1.84	Blue	P24	7	24	1 1/8	50
LCB6-14-L		1/4	0.48	1.07	0.08	1.93						
LCB6-38-L		3/8	0.62	1.07	0.05	2.15						

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, One-Hole, Long Barrel Lug (continued)

Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCB4-10-L	#4 – #3 AWG STR, #2 AWG SOL	#10	0.55	1.05	0.09	1.86	Gray	P29	8	29	1 1/8	50
LCB4-14-L		1/4	0.55	1.05	0.09	1.95						
LCB4-56-L		5/16	0.62	1.05	0.07	2.13						
LCB4-38-L		3/8	0.62	1.05	0.07	2.17						
LCB4-12-L	#4 AWG	1/2	0.75	1.05	0.07	2.4	Gray	P29	8	29	1 1/8	50
LCB2-10-Q	#2 AWG	#10	0.60	1.16	0.10	2.07	Brown	P33	10	33	1 1/4	25
LCB2-14-Q		1/4	0.60	1.16	0.10	2.14						
LCB2-56-Q		5/16	0.66	1.16	0.10	2.27						
LCB2-38-Q		3/8	0.66	1.16	0.10	2.34						
LCB2-12-Q		1/2	0.75	1.16	0.08	2.58						
LCB1-10-E	#1 AWG	#10	0.70	1.36	0.11	2.30	Green	P37	11	37	1 7/16	20
LCB1-56-E		5/16	0.70	1.36	0.11	2.50						
LCB1-38-E		3/8	0.70	1.36	0.11	2.57						
LCB1-12-E		1/2	0.75	1.36	0.09	2.81						
LCB1/0-10-X	1/0 AWG	#10	0.76	1.44	0.12	2.41	Pink	P42	12	42	1 1/2	10
LCB1/0-56-X		5/16	0.76	1.44	0.12	2.61						
LCB1/0-38-X		3/8	0.76	1.44	0.12	2.69						
LCB1/0-12-X		1/2	0.80	1.44	0.12	2.92						
LCB2/0-38-X	2/0 AWG	3/8	0.85	1.50	0.13	2.82	Black	P45	13	45	1 9/16	10
LCB2/0-12-X		1/2	0.85	1.50	0.13	3.07						
LCB3/0-38-X	3/0 AWG	3/8	0.96	1.50	0.13	2.87	Orange	P50	14	50	1 9/16	10
LCB3/0-12-X		1/2	0.96	1.50	0.13	3.12						
LCB4/0-38-X	4/0 AWG	3/8	1.06	1.56	0.14	3.03	Purple	P54	15	54	1 5/8	10
LCB4/0-12-X		1/2	1.06	1.56	0.14	3.22						
LCB250-12-X	250 kcmil	1/2	1.17	1.61	0.14	3.32	Yellow	P62	16	62	1 11/16	10
LCB250-78-X		7/8	1.25	1.61	0.12	3.85						
LCB300-56-X	300 kcmil	5/16	1.19	2.24	0.16	3.95	White	P66	17	66	2 5/16	10
LCB300-38-X		3/8	1.19	2.24	0.16	3.95						
LCB300-12-X		1/2	1.19	2.24	0.16	4.06						
LCB350-12-X	350 kcmil	1/2	1.28	2.24	0.17	4.11	Red	P71	18	71	2 5/16	10
LCB350-78-X		7/8	1.28	2.24	0.17	4.78						
LCB400-38-6	400 kcmil	3/8	1.39	2.30	0.18	4.27	Blue	P76	19	76	2 3/8	6
LCB400-12-6		1/2	1.39	2.30	0.18	4.27						
LCB400-58-6		5/8	1.39	2.30	0.18	4.48						
LCB400-78-6		7/8	1.39	2.30	0.18	4.88						
LCB500-12-6	500 kcmil	1/2	1.54	2.50	0.22	4.53	Brown	P87	20	87	2 9/16	6
LCB500-58-6		5/8	1.54	2.50	0.22	4.74						
LCB500-78-6		7/8	1.54	2.50	0.22	5.13						
LCB600-12-6	600 kcmil	1/2	1.70	2.69	0.26	5.40	Green	P94	22	94	2 3/4	6
LCB600-58-6		5/8	1.70	2.69	0.26	5.40						
LCB750-58-6	750 kcmil	5/8	1.89	2.88	0.26	5.98	Black	P106	24	106	2 15/16	6
LCB750-78-6		7/8	1.89	2.88	0.26	6.07						
LCB800-58-6	800 kcmil	5/8	1.95	2.94	0.29	6.06	Orange	P107	25	107	3	6
LCB1000-58-3	1000 kcmil	5/8	2.17	3.00	0.32	6.32	White	P125	27	125	3 1/16	3

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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Code Conductor, One-Hole, Long Barrel with Window Lug

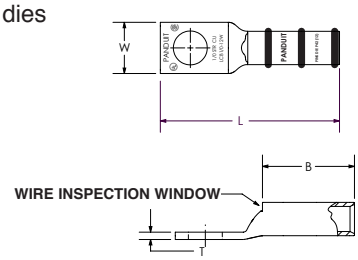
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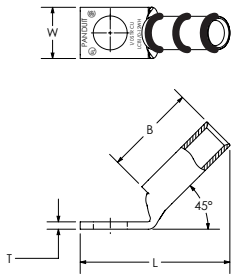
For Use with Stranded Copper Conductors

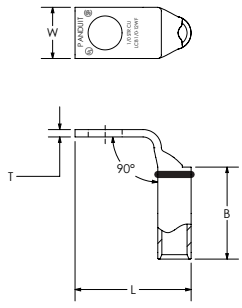
Type LCB-W

- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Inspection window to visually assure full conductor insertion
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 KV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- Meets J-STD-607-A and TIA-942 requirements for network systems grounding applications









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCB10-14W-L	#14 - #12 AWG STR. #10-#12 AWG SOL.	1/4	0.42	0.53	0.05	1.31	–	–	–	–	9/16	50
LCB6-12W-L	# 6 AWG	1/2	0.75	1.07	0.07	2.43	Blue	P24	7	24	1-1/8	
LCB4-12W-L	# 4 AWG	1/2	0.75	1.05	0.07	2.31	Gray	P29	8	29	1-1/8	
LCB2-14W-Q	# 2 AWG	1/4	0.6	1.16	0.1	2.04	Brown	P33	10	33	1-1/4	25
LCB2-38W-Q		3/8	0.66	1.16	0.1	2.24	Brown	P33	10	33	1-1/4	
LCB2-12W-Q		1/2	0.75	1.16	0.08	2.48						
LCB1-12W-E	# 1 AWG	1/2	0.75	1.36	0.09	2.7	Green	P37	11	37	1-7/16	20
LCB1/0-56W-X	1/0 AWG	5/16	0.76	1.44	0.12	2.5	Pink	P42	12	42	1-1/2	10
LCB1/0-38W-X		3/8	0.76	1.44	0.12	2.57	Pink	P42	12	42	1-1/2	
LCB1/0-12W-X		1/2	0.8	1.44	0.12	2.81						
LCB2/0-38W-X	2/0 AWG	3/8	0.85	1.5	0.13	2.67	Black	P45	13	45	1-9/16	
LCB2/0-12W-X		1/2	0.85	1.5	0.13	2.92	Black	P45	13	45	1-9/16	
LCB4/0-14W-X	4/0 AWG	1/4	1.06	1.56	0.14	2.48	Purple	P54	15	54	1-5/8	
LCB4/0-38W-X		3/8	1.06	1.56	0.14	2.85	Purple	P54	15	54	1-5/8	
LCB4/0-12W-X		1/2	1.06	1.56	0.14	3.04	Purple	P54	15	54	1-5/8	
LCB250-12W-X	250 kcmil	1/2	1.17	1.61	0.14	3.12	Yellow	P62	16	62	1-11/16	
LCB350-12W-X	350 kcmil	1/2	1.28	2.24	0.17	3.88	Red	P71	18	71	2-5/16	
LCB750-38W-6	750 kcmil	3/8	1.89	2.88	0.26	4.83	Black	P106	24	106	2-15/16	6
LCB750-12W-6		1/2	1.89	2.88	0.26	5.03						
LCB750-58W-6		5/8	1.89	2.88	0.26	5.58						
LCB750-78W-6		7/8	1.89	2.88	0.26	5.68	Black	P106	24	106	2-15/16	
LCB800-12W-6	800 kcmil	12	1.95	2.94	0.3	5.11	Orange	P107	25	107	3	
LCB800-58W-6		5/8	1.95	2.94	0.3	5.68	Orange	P107	25	107	3	
LCB1000-38W-3	1000 kcmil	3/8	2.17	3	0.32	5.08	White	P125	27	125	3-1/16	3
LCB1000-12W-3		1/2	2.17	3	0.32	5.27						
LCB1000-58W-3		5/8	2.17	3	0.32	5.92						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, Two-Hole, Standard Barrel with Window Lug

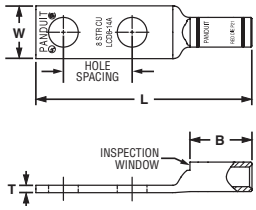
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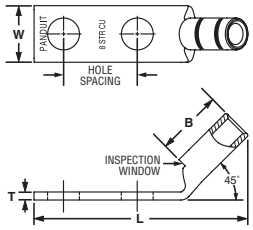
For Use with Stranded Copper Conductors

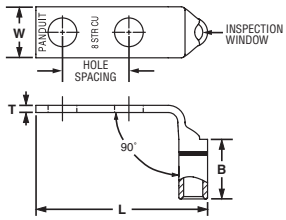
Type LCD

- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping approved
- Available with NEMA hole sizes and spacing
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
LCD10-10A-L*	#14 – #10 AWG STR, #12 – #10 AWG SOL	#10	0.63	0.38	0.38	0.06	1.69	—	—	—	—	7/16	50
LCD10-14A-L*		1/4	0.63	0.42	0.38	0.05	1.78						
LCD10-14B-L*		1/4	0.75	0.42	0.38	0.05	1.91						
LCD10-14D-L*		1/4	1.00	0.42	0.38	0.05	2.16						
LCD10-38D-L*		3/8	1.00	0.56	0.38	0.04	2.38						
LCD8-10A-L	#8 AWG	#10	0.63	0.41	0.56	0.08	1.88	Red	P21	49	21	5/8	50
LCD8-14A-L		1/4	0.63	0.48	0.56	0.07	1.97						
LCD8-14B-L		1/4	0.75	0.48	0.56	0.07	2.09						
LCD8-14D-L		1/4	1.00	0.48	0.56	0.07	2.34						
LCD8-38D-L		3/8	1.00	0.60	0.56	0.05	2.56						
LCD6-10A-L	#6 AWG	#10	0.63	0.46	0.81	0.08	2.15	Blue	P24	7	24	7/8	50
LCD6-10B-L		#10	0.75	0.46	0.81	0.08	2.27						
LCD6-10D-L		#10	1.00	0.46	0.81	0.08	2.52						
LCD6-14A-L		1/4	0.63	0.48	0.81	0.08	2.24						
LCD6-14B-L		1/4	0.75	0.48	0.81	0.08	2.36						
LCD6-14D-L		1/4	1.00	0.48	0.81	0.08	2.61						
LCD6-56D-L		5/16	1.00	0.56	0.81	0.07	2.73						
LCD6-38D-L		3/8	1.00	0.62	0.81	0.06	2.83						
LCD4-10A-L	#4 – #3 AWG STR, #2 AWG SOL	#10	0.63	0.55	0.81	0.09	2.17	Gray	P29	8	29	7/8	50
LCD4-10B-L		#10	0.75	0.55	0.81	0.09	2.29						
LCD4-14A-L		1/4	0.63	0.55	0.81	0.09	2.26						
LCD4-14B-L		1/4	0.75	0.55	0.81	0.09	2.38						
LCD4-14D-L		1/4	1.00	0.55	0.81	0.09	2.63						
LCD4-38D-L		3/8	1.00	0.62	0.81	0.08	2.85						
LCD4-56B-L	# 4 AWG	1/4	0.75	0.55	0.81	0.09	2.5	Gray	P29	8	29	7/8	50
LCD2-56D-Q	# 2 AWG	5/16	1	0.66	0.88	0.1	2.9	Brown	P33	10	33	15/16	25
LCD4/0-14D-X	4/0 AWG	1/4	1	1.06	1.19	0.14	3.36	Purple	P54	15	54	1-1/4	10
LCD4/0-56B-X		5/16	0.75	1.06	1.19	0.14	3.12						
LCD350-56B-X	350 kcmil	5/16	0.75	1.28	1.44	0.17	3.72	Red	P71	18	71	1-1/2	10

‡Visit www.panduit.com/tools for tool and die information.
*Not tested to NEBS Level 3 requirements.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, Two-Hole, Standard Barrel with Window Lug (continued)

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	Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCD2-14A-Q	#2 AWG	1/4	0.63	0.60	0.88	0.10	2.40	Brown	P33	10	33	15/16	25
	LCD2-14B-Q		1/4	0.75	0.60	0.88	0.10	2.52						
	LCD2-14D-Q		1/4	1.00	0.60	0.88	0.10	2.77						
	LCD2-56B-Q		5/16	0.75	0.66	0.88	0.10	2.65						
	LCD2-38D-Q		3/8	1.00	0.66	0.88	0.10	3.00						
	LCD2-12-Q		1/2	1.75	0.75	0.88	0.08	4.14						
	LCD1-14A-E	#1 AWG	1/4	0.63	0.70	0.88	0.11	2.42	Green	P37	11	37	15/16	20
	LCD1-14B-E		1/4	0.75	0.70	0.88	0.11	2.54						
	LCD1-56C-E		5/16	0.88	0.70	0.88	0.11	2.79						
	LCD1-38D-E		3/8	1.00	0.70	0.88	0.11	2.99						
	LCD1-12-E		1/2	1.75	0.75	0.88	0.09	4.16						
	LCD1/0-14A-X	1/0 AWG	1/4	0.63	0.76	0.94	0.12	2.57	Pink	P42	12	42	1	10
	LCD1/0-14B-X		1/4	0.75	0.76	0.94	0.12	2.70						
	LCD1/0-56C-X		5/16	0.88	0.76	0.94	0.12	2.88						
	LCD1/0-38D-X		3/8	1.00	0.76	0.94	0.12	3.08						
	LCD1/0-12-X		1/2	1.75	0.80	0.94	0.12	4.25						
	LCD2/0-14A-X	2/0 AWG	1/4	0.63	0.85	0.98	0.13	2.70	Black	P45	13	45	1 1/16	10
	LCD2/0-14B-X		1/4	0.75	0.85	0.98	0.13	2.83						
	LCD2/0-56C-X		5/16	0.88	0.85	0.98	0.13	2.95						
	LCD2/0-38D-X		3/8	1.00	0.85	0.98	0.13	3.14						
	LCD2/0-12-X		1/2	1.75	0.85	0.98	0.13	4.30						
	LCD3/0-14B-X	3/0 AWG	1/4	0.75	0.96	1.14	0.13	3.02	Orange	P50	14	50	1 3/16	10
	LCD3/0-56D-X		5/16	1.00	0.96	1.14	0.13	3.27						
	LCD3/0-38D-X		3/8	1.00	0.96	1.14	0.13	3.33						
	LCD3/0-12-X		1/2	1.75	0.96	1.14	0.13	4.49						
	LCD4/0-14B-X	4/0 AWG	1/4	0.75	1.06	1.19	0.14	3.10	Purple	P54	15	54	1 1/4	10
	LCD4/0-38D-X		3/8	1.00	1.06	1.19	0.14	3.44						
◆	LCD4/0-12-X		1/2	1.75	1.06	1.19	0.14	4.58						
	LCD250-38D-X	250 kcmil	3/8	1.00	1.17	1.25	0.14	3.54	Yellow	P62	16	62	1 5/16	10
◆	LCD250-12-X		1/2	1.75	1.17	1.25	0.14	4.68						
	LCD300-38D-X	300 kcmil	3/8	1.00	1.19	1.44	0.16	3.74	White	P66	17	66	1 1/2	10
◆	LCD300-12-X		1/2	1.75	1.19	1.44	0.16	4.92						
	LCD350-14B-X	350 kcmil	1/4	0.75	1.28	1.44	0.17	3.30	Red	P71	18	71	1 1/2	10
	LCD350-38D-X		3/8	1.00	1.28	1.44	0.17	3.78						
	LCD350-12E-X		1/2	1.25	1.28	1.44	0.17	4.33						
◆	LCD350-12-X		1/2	1.75	1.28	1.44	0.17	4.96						
	LCD400-38D-6	400 kcmil	3/8	1.00	1.39	1.50	0.18	3.86	Blue	P76	19	76	1 9/16	6
◆	LCD400-12-6		1/2	1.75	1.39	1.50	0.18	5.04						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆ NEMA hole sizes and spacing

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, Two-Hole, Standard Barrel with Window Lug (continued)

	Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCD500-14B-6	500 kcmil	1/4	0.75	1.54	1.75	0.22	3.71	Brown	P87	20	87	1 13/16	6
	LCD500-38D-6		3/8	1.00	1.54	1.75	0.22	4.19						
	LCD500-12E-6		1/2	1.25	1.54	1.75	0.22	4.74						
◆	LCD500-12-6		1/2	1.75	1.54	1.75	0.22	5.37						
	LCD600-38D-6	600 kcmil	3/8	1.00	1.70	1.75	0.26	4.24	Green	P94	22	94	1 13/16	6
◆	LCD600-12-6		1/2	1.75	1.70	1.75	0.26	5.42						
	LCD750-38D-6	750 kcmil	3/8	1.00	1.89	1.88	0.26	4.71	Black	P106	24	106	1 15/16	6
◆	LCD750-12-6		1/2	1.75	1.89	1.88	0.26	5.65						
	LCD750-58G-6		5/8	1.50	1.89	1.88	0.26	5.46						
◆	LCD1000-12-3	1000 kcmil	1/2	1.75	2.17	1.88	0.32	5.77	White	P125	27	125	1 15/16	3
	LCD1000-12E-3		1/2	1.25	2.17	1.88	0.32	5.27						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆ NEMA hole sizes and spacing

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

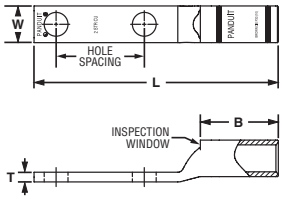
Code Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug

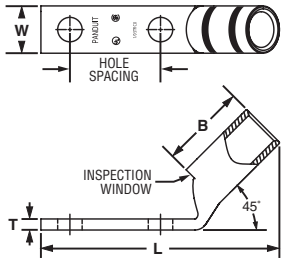
For Use with Stranded Copper Conductors

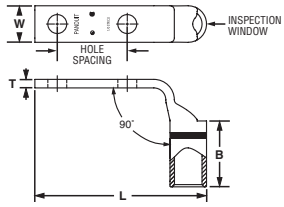
Type LCDN

- Narrow tongue width for limited space applications
- Color-coded barrels marked with Panduit® and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
				W	B	T	L						
LCDN2-10B-Q	#2 AWG	#10	0.75	0.42	0.88	0.11	2.43	Brown	P33	10	33	15/16	25
LCDN2-14A-Q		1/4	0.63	0.42	0.88	0.12	2.40						
LCDN2-14B-Q		1/4	0.75	0.42	0.88	0.11	2.52						
LCDN2-14D-Q		1/4	1.00	0.42	0.88	0.11	2.77						
LCDN1-14B-E	#1 AWG	1/4	0.75	0.47	0.88	0.11	2.54	Green	P37	11	37	15/16	20
LCDN1/0-14D-X	1/0 AWG	1/4	1.00	0.52	0.94	0.13	2.95	Pink	P42	12	42	1	10
LCDN1/0-56D-X		5/16	1.00	0.52	0.94	0.13	3.00						
LCDN2/0-14A-X	2/0 AWG	1/4	0.63	0.58	0.98	0.14	2.71	Black	P45	13	45	1 1/16	10
LCDN2/0-14D-X		1/4	1.00	0.58	0.98	0.13	3.09						
LCDN2/0-56A-X		5/16	0.63	0.58	0.98	0.13	2.71						
LCDN2/0-56D-X		5/16	1.00	0.58	0.98	0.13	3.09						
LCDN350-38D-X	350 kcmil	3/8	1.00	0.88	1.44	0.17	3.79	Red	P71	18	71	1 1/2	10
LCDN500-38D-6	500 kcmil	3/8	1.00	1.06	1.75	0.22	4.20	Brown	P87	20	87	1 13/16	6
LCDN500-12D-6		1/2	1.00	1.06	1.75	0.22	4.63						
LCDN750-38D-6	750 kcmil	3/8	1.00	1.30	1.88	0.26	4.72	Black	P106	24	106	1 15/16	6

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, Two-Hole, Long Barrel Lug

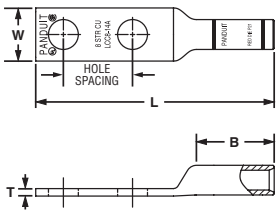
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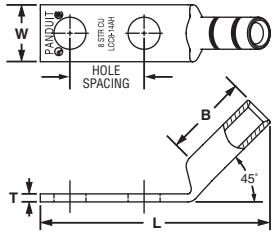
For Use with Stranded Copper Conductors

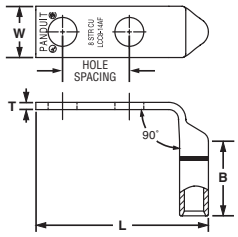
Type LCC

- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Enclosed barrel prevents corrosive material from entering barrel when used in harsh environments
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping approved
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
				W	B	T	L						
LCC8-10A-L	#8 AWG	#10	0.63	0.41	0.70	0.08	2.07	Red	P21	49	21	3/4	50
LCC8-14A-L		1/4	0.63	0.48	0.70	0.07	2.16						
LCC8-14B-L		1/4	0.75	0.48	0.70	0.07	2.28						
LCC8-14D-L		1/4	1.00	0.48	0.70	0.07	2.53						
LCC8-38D-L		3/8	1.00	0.60	0.70	0.05	2.75						
LCC6-10A-L	#6 AWG	#10	0.63	0.46	1.07	0.08	2.47	Blue	P24	7	24	1 1/8	50
LCC6-14A-L		1/4	0.63	0.48	1.07	0.08	2.56						
LCC6-14B-L		1/4	0.75	0.48	1.07	0.08	2.68						
LCC6-14D-L		1/4	1.00	0.48	1.07	0.08	2.93						
LCC6-38D-L		3/8	1.00	0.62	1.07	0.06	3.15						
LCC6-12-L		1/2	1.75	0.75	1.07	0.07	4.04						
LCC4-14A-L	#4 – #3 AWG STR, #2 AWG SOL	1/4	0.63	0.55	1.05	0.09	2.58	Gray	P29	8	29	1 1/8	50
LCC4-14B-L		1/4	0.75	0.55	1.05	0.09	2.70						
LCC4-38D-L		3/8	1.00	0.62	1.05	0.08	3.17						
LCC4-12-L		1/2	1.75	0.75	1.05	0.07	4.09						
LCC2-14A-Q	#2 AWG	1/4	0.63	0.60	1.16	0.10	2.77	Brown	P33	10	33	1 1/4	25
LCC2-14B-Q		1/4	0.75	0.60	1.16	0.10	2.89						
LCC2-56B-Q		5/16	0.75	0.66	1.16	0.10	3.02						
LCC2-56C-Q		5/16	0.88	0.66	1.16	0.10	3.14						
LCC2-38D-Q		3/8	1.00	0.66	1.16	0.10	3.34						
LCC2-38-Q		3/8	1.75	0.66	1.16	0.10	4.09						
LCC2-12-Q		1/2	1.75	0.75	1.16	0.08	4.51						
LCC1-14A-E	#1 AWG	1/4	0.63	0.70	1.36	0.11	3.00	Green	P37	11	37	1 7/16	20
LCC1-14B-E		1/4	0.75	0.70	1.36	0.11	3.12						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
♦NEMA hole sizes and spacing.

Continued on next page

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Code Conductor, Two-Hole, Long Barrel Lug (continued)

	Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCC1-56B-E	#1 AWG	5/16	0.75	0.70	1.36	0.11	3.25	Green	P37	11	37	1 7/16	20
	LCC1-56C-E		5/16	0.88	0.70	1.36	0.11	3.37						
	LCC1-38D-E		3/8	1.00	0.70	1.36	0.11	3.57						
	LCC1-12-E		1/2	1.75	0.75	1.36	0.09	4.74						
	LCC1/0-14A-X	1/0 AWG	1/4	0.63	0.76	1.44	0.12	3.18	Pink	P42	12	42	1 1/2	10
	LCC1/0-14B-X		1/4	0.75	0.76	1.44	0.12	3.31						
	LCC1/0-56C-X		5/16	0.88	0.76	1.44	0.12	3.49						
	LCC1/0-56D-X		5/16	1.00	0.76	1.44	0.12	3.61						
	LCC1/0-38D-X		3/8	1.00	0.76	1.44	0.12	3.69						
	LCC1/0-12D-X		1/2	1.00	0.80	1.44	0.12	3.95						
	LCC1/0-12-X		1/2	1.75	0.80	1.44	0.12	4.86						
	LCC2/0-14A-X	2/0 AWG	1/4	0.63	0.85	1.50	0.13	3.38	Black	P45	13	45	1 9/16	10
	LCC2/0-14B-X		1/4	0.75	0.85	1.50	0.13	3.51						
	LCC2/0-56D-X		5/16	1.00	0.85	1.50	0.13	3.76						
	LCC2/0-38D-X		3/8	1.00	0.85	1.50	0.13	3.82						
	LCC2/0-12D-X		1/2	1.00	0.85	1.50	0.13	4.07						
	LCC2/0-12-X		1/2	1.75	0.85	1.50	0.13	4.98						
	LCC3/0-14B-X	3/0 AWG	1/4	0.75	0.96	1.50	0.13	3.56	Orange	P50	14	50	1 9/16	10
	LCC3/0-38D-X		3/8	1.00	0.96	1.50	0.13	3.87						
	LCC3/0-12D-X		1/2	1.00	0.96	1.50	0.13	4.12						
	LCC3/0-12-X		1/2	1.75	0.96	1.50	0.13	5.03						
	LCC4/0-14B-X	4/0 AWG	1/4	0.75	1.06	1.56	0.14	3.66	Purple	P54	15	54	1 5/8	10
	LCC4/0-56D-X		5/16	1.00	1.06	1.56	0.14	3.92						
	LCC4/0-38D-X		3/8	1.00	1.06	1.56	0.14	3.99						
	LCC4/0-38-X		3/8	1.75	1.06	1.56	0.14	4.74						
	LCC4/0-12D-X		1/2	1.00	1.06	1.56	0.14	4.22						
◆	LCC4/0-12-X		1/2	1.75	1.06	1.56	0.14	5.13						
	LCC250-38D-X	250 kcmil	3/8	1.00	1.17	1.60	0.14	4.09	Yellow	P62	16	62	1 11/16	10
	LCC250-12D-X		1/2	1.00	1.17	1.60	0.14	4.32						
◆	LCC250-12-X		1/2	1.75	1.17	1.60	0.14	5.23						
	LCC300-38D-X	300 kcmil	3/8	1.00	1.19	2.24	0.16	4.76	White	P66	17	66	2 5/16	10
◆	LCC300-12-X		1/2	1.75	1.19	2.24	0.16	5.94						
	LCC350-14B-X	350 kcmil	1/4	0.75	1.28	2.24	0.17	4.33	Red	P71	18	71	2 5/16	10
	LCC350-38D-X		3/8	1.00	1.28	2.24	0.17	4.81						
◆	LCC350-12-X		1/2	1.75	1.28	2.24	0.17	5.99						
	LCC400-14B-6	400 kcmil	1/4	0.75	1.39	2.30	0.18	4.44	Blue	P76	19	76	2 3/8	6
	LCC400-38D-6		3/8	1.00	1.39	2.30	0.18	4.92						
◆	LCC400-12-6		1/2	1.75	1.39	2.30	0.18	6.10						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Two-Hole, Long Barrel Lug (continued)

	Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
					W	B	T	L						
	LCC500-14B-6	500 kcmil	1/4	0.75	1.54	2.50	0.22	4.70	Brown	P87	20	87	2 9/16	6
	LCC500-38D-6		3/8	1.00	1.54	2.50	0.22	5.18						
◆	LCC500-12-6		1/2	1.75	1.54	2.50	0.22	6.36						
	LCC600-38D-6	600 kcmil	3/8	1.00	1.70	2.69	0.26	5.45	Green	P94	22	94	2 3/4	6
◆	LCC600-12-6		1/2	1.75	1.70	2.69	0.26	6.63						
	LCC750-38D-6	750 kcmil	3/8	1.00	1.89	2.87	0.26	6.10	Black	P106	24	106	2 15/16	6
◆	LCC750-12-6		1/2	1.75	1.89	2.87	0.26	7.04						
◆	LCC800-12-6	800 kcmil	1/2	1.75	1.95	2.94	0.29	7.13	Orange	P107	25	—	3	6
	LCC1000-38D-3	1000 kcmil	3/8	1.00	2.17	3.00	0.32	6.35	White	P125	27	125	3 1/16	3
◆	LCC1000-12-3		1/2	1.75	2.17	3.00	0.32	7.29						

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◆NEMA hole sizes and spacing.

Code Conductor, Two-Hole, Long Barrel with Window Lug

For Use with Stranded Copper Conductors

Type LCC-W

- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Inspection window to visually assure full conductor insertion
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com



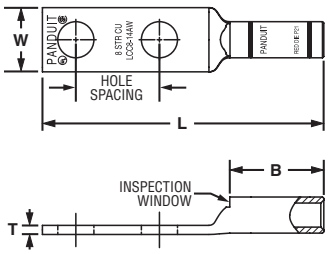


Figure 1

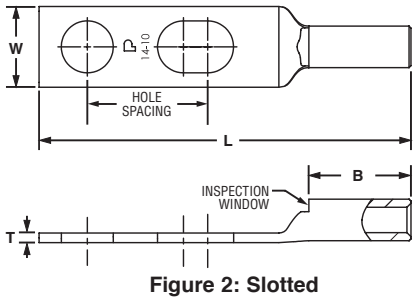


Figure 2: Slotted

Part Number	Figure No.	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
					W	B	T	L						
LCC10-14JAW-L*	2	#14 – 10 AWG STR, #12 – 10 AWG SOL	1/4	0.50 – 0.63	0.42	0.53	0.05	1.93	—	—	—	—	9/16	50
LCC10-14AW-L*	1		1/4	0.63	0.42	0.53	0.05	1.93	—	—	—	—		
LCC10-14BW-L*	1		1/4	0.75	0.42	0.53	0.05	2.06	—	—	—	—		

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◆NEMA hole sizes and spacing.

Continued on next page

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Code Conductor, Two-Hole, Long Barrel with Window Lug (continued)

Part Number	Figure No.	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
					W	B	T	L						
LCC8-10AW-L	1	#8 AWG	#10	0.63	0.41	0.70	0.08	2.01	Red	P21	49	21	3/4	50
LCC8-10BW-L	1		#10	0.75	0.41	0.70	0.08	2.14						
LCC8-10ABW-L	2		#10	0.63 – 0.75	0.41	0.70	0.08	2.14						
LCC8-14AW-L	1		1/4	0.63	0.48	0.70	0.07	2.10						
LCC8-14BW-L	1		1/4	0.75	0.48	0.70	0.07	2.23						
LCC8-14ABW-L	2		1/4	0.63 – 0.75	0.48	0.70	0.07	2.23						
LCC8-14DW-L	1		1/4	1.00	0.48	0.70	0.07	2.48						
LCC8-38DW-L	1		3/8	1.00	0.60	0.70	0.05	2.70						
LCC6-10AW-L	1	#6 AWG	#10	0.63	0.46	1.07	0.08	2.40	Blue	P24	7	24	1 1/8	50
LCC6-10BW-L	1		#10	0.75	0.46	1.07	0.08	2.52						
LCC6-10ABW-L	2		#10	0.63 – 0.75	0.46	1.07	0.08	2.52						
LCC6-14JW-L	1		1/4	0.50	0.48	1.07	0.08	2.36						
LCC6-14AW-L	1		1/4	0.63	0.48	1.07	0.08	2.49						
LCC6-14JAW-L	2		1/4	0.50 – 0.63	0.48	1.07	0.08	2.49						
LCC6-14BW-L	1		1/4	0.75	0.48	1.07	0.08	2.61						
LCC6-14DW-L	1		1/4	1.00	0.48	1.07	0.08	2.86						
LCC6-14BDW-L	2		1/4	0.75 – 1.00	0.48	1.07	0.08	2.86						
LCC6-14EW-L	1		1/4	1.25	0.48	1.07	0.08	3.11						
LCC6-14W-L	1		1/4	1.75	0.48	1.07	0.08	3.61						
LCC6-56BW-L	1		5/16	0.75	0.56	1.07	0.07	2.73						
LCC6-38BW-L	1		3/8	0.75	0.62	1.07	0.06	2.83						
LCC6-38CW-L	1		3/8	0.88	0.62	1.07	0.06	2.96						
LCC6-38DW-L	1		3/8	1.00	0.62	1.07	0.06	3.08						
LCC6-38BDW-L	2		3/8	0.75 – 1.00	0.62	1.07	0.06	3.08						
LCC6-12W-L	1		1/2	1.75	0.75	1.07	0.07	3.97						
LCC4-10AW-L	1	#4 – 3 AWG STR, #2 AWG SOL	#10	0.63	0.55	1.05	0.09	2.40	Gray	P29	8	29	1 1/8	50
LCC4-10BW-L	1		#10	0.75	0.55	1.05	0.09	2.53						
LCC4-14AW-L	1		1/4	0.63	0.55	1.05	0.09	2.50						
LCC4-14BW-L	1		1/4	0.75	0.55	1.05	0.09	2.63						
LCC4-14DW-L	1		1/4	1.00	0.55	1.05	0.09	2.63						
LCC4-14ADW-L	2		1/4	0.63 – 1.00	0.55	1.05	0.09	2.87						
LCC4-38DW-L	1		3/8	1.00	0.62	1.05	0.08	3.09						
LCC4-12W-L	1		1/2	1.75	0.75	1.05	0.07	4.01						
LCC2-10AW-Q	1	#2 AWG	#10	0.63	0.60	1.16	0.10	2.57	Brown	P33	10	33	1 1/4	25
LCC2-10BW-Q	1		#10	0.75	0.60	1.16	0.10	2.69						
LCC2-14AW-Q	1		1/4	0.63	0.60	1.16	0.10	2.67						
LCC2-14BW-Q	1		1/4	0.75	0.60	1.16	0.10	2.79						
LCC2-14DW-Q	1		1/4	1.00	0.60	1.16	0.10	3.04						

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◆NEMA hole sizes and spacing.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Two-Hole, Long Barrel with Window Lug (continued)

	Part Number	Figure No.	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
						W	B	T	L						
	LCC2-56BW-Q	1	#2 AWG	5/16	0.75	0.66	1.16	0.10	2.92	Brown	P33	10	33	1 1/4	25
	LCC2-56CW-Q			5/16	0.88	0.66	1.16	0.10	3.04						
	LCC2-38BW-Q			3/8	0.75	0.66	1.16	0.10	2.99						
	LCC2-38CW-Q			3/8	0.88	0.66	1.16	0.10	3.12						
	LCC2-38DW-Q			3/8	1.00	0.66	1.16	0.10	3.24						
	LCC2-38W-Q			3/8	1.75	0.66	1.16	0.10	3.99						
	LCC2-12W-Q			1/2	1.75	0.75	1.16	0.08	4.41						
	LCC1-14AW-E	1	#1 AWG	1/4	0.63	0.70	1.36	0.11	2.89	Green	P37	11	37	1 7/16	20
	LCC1-14BW-E			1/4	0.75	0.70	1.36	0.11	3.01						
	LCC1-56BW-E			5/16	0.75	0.70	1.36	0.11	3.14						
	LCC1-56CW-E			5/16	0.88	0.70	1.36	0.11	3.26						
	LCC1-38DW-E			3/8	1.00	0.70	1.36	0.11	3.46						
	LCC1-12W-E			1/2	1.75	0.75	1.36	0.09	4.63						
	LCC1/0-14AW-X	1	1/0 AWG	1/4	0.63	0.76	1.44	0.12	3.07	Pink	P42	12	42	1 1/2	10
	LCC1/0-14BW-X			1/4	0.75	0.76	1.44	0.12	3.19						
	LCC1/0-14DW-X			1/4	1.00	0.76	1.44	0.12	3.44						
	LCC1/0-38DW-X			3/8	1.00	0.76	1.44	0.12	3.57						
	LCC1/0-38W-X			3/8	1.75	0.76	1.44	0.12	4.32						
	LCC1/0-12DW-X			1/2	1.00	0.80	1.44	0.12	3.84						
	LCC1/0-12W-X			1/2	1.75	0.80	1.44	0.12	4.74						
	LCC2/0-14AW-X	1	2/0 AWG	1/4	0.63	0.85	1.50	0.13	3.23	Black	P45	13	45	1 9/16	10
	LCC2/0-14BW-X			1/4	0.75	0.85	1.50	0.13	3.36						
	LCC2/0-56DW-X			5/16	1.00	0.85	1.50	0.13	3.61						
	LCC2/0-38DW-X			3/8	1.00	0.85	1.50	0.13	3.67						
	LCC2/0-12DW-X			1/2	1.00	0.85	1.50	0.13	3.92						
	LCC2/0-12W-X			1/2	1.75	0.85	1.50	0.13	4.83						
	LCC3/0-14BW-X	1	3/0 AWG	1/4	0.75	0.96	1.50	0.13	3.39	Orange	P50	14	50	1 9/16	10
	LCC3/0-56DW-X			5/16	1.00	0.96	1.50	0.13	3.64						
	LCC3/0-38DW-X			3/8	1.00	0.96	1.50	0.13	3.70						
	LCC3/0-12DW-X			1/2	1.00	0.96	1.50	0.13	3.95						
	LCC3/0-12W-X			1/2	1.75	0.96	1.50	0.13	4.87						
	LCC4/0-14AW-X	1	4/0 AWG	1/4	0.63	1.06	1.56	0.14	3.35	Purple	P54	15	54	1 5/8	10
	LCC4/0-14BW-X			1/4	0.75	1.06	1.56	0.14	3.48						
	LCC4/0-56DW-X			5/16	1.00	1.06	1.56	0.14	3.74						
	LCC4/0-38DW-X			3/8	1.00	1.06	1.56	0.14	3.81						
	LCC4/0-38W-X			3/8	1.75	1.06	1.56	0.14	4.56						
	LCC4/0-12DW-X			1/2	1.00	1.06	1.56	0.14	4.04						
◆	LCC4/0-12W-X			1/2	1.75	1.06	1.56	0.14	4.95						

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◆NEMA hole sizes and spacing.

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Code Conductor, Two-Hole, Long Barrel with Window Lug (continued)

	Part Number	Figure No.	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
						W	B	T	L						
	LCC250-56DW-X	1	250 kcmil	5/16	1.00	1.17	1.61	0.14	3.82	Yellow	P62	16	62	1 11/16	10
	LCC250-38DW-X			3/8	1.00	1.17	1.61	0.14	3.89						
	LCC250-12DW-X			1/2	1.00	1.17	1.61	0.14	4.12						
◆	LCC250-12W-X			1/2	1.75	1.17	1.61	0.14	5.03						
	LCC300-38DW-X	1	300 kcmil	3/8	1.00	1.19	2.24	0.16	4.54	White	P66	17	66	2 5/16	10
◆	LCC300-12W-X			1/2	1.75	1.19	2.24	0.16	5.72						
	LCC350-14BW-X	1	350 kcmil	1/4	0.75	1.28	2.24	0.17	4.10	Red	P71	18	71	2 5/16	10
	LCC350-38DW-X			3/8	1.00	1.28	2.24	0.17	4.58						
◆	LCC350-12W-X			1/2	1.75	1.28	2.24	0.17	5.76						
	LCC400-14BW-6	1	400 kcmil	1/4	0.75	1.39	2.30	0.18	4.18	Blue	P76	19	76	2 3/8	6
	LCC400-38DW-6			3/8	1.00	1.39	2.30	0.18	4.66						
◆	LCC400-12W-6			1/2	1.75	1.28	2.30	0.17	5.84						
	LCC500-14BW-6	1	500 kcmil	1/4	0.75	1.54	2.50	0.22	4.46	Brown	P87	20	87	2 9/16	6
	LCC500-38DW-6			3/8	1.00	1.54	2.50	0.22	4.94						
◆	LCC500-12W-6			1/2	1.75	1.54	2.50	0.22	6.12						
	LCC600-38DW-6	1	600 kcmil	3/8	1.00	1.70	2.69	0.26	5.18	Green	P94	22	94	2 3/4	6
◆	LCC600-12W-6			1/2	1.75	1.70	2.69	0.26	6.36						
	LCC750-38DW-6	1	750 kcmil	3/8	1.00	1.89	2.88	0.26	5.71	Black	P106	24	106	2 15/16	6
◆	LCC750-12W-6			1/2	1.75	1.89	2.88	0.26	6.65						
◆	LCC800-12W-6	1	800 kcmil	1/2	1.75	1.95	2.94	0.30	6.74	Orange	P107	25	107	3	6
	LCC1000-38DW-3	1	1000 kcmil	3/8	1.00	2.17	3.00	0.32	5.95	White	P125	27	125	3 1/16	3
◆	LCC1000-12W-3			1/2	1.75	2.17	3.00	0.32	6.89						

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*Not tested to NEBS level 3 requirements.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Two-Hole, Long Barrel with Window, Narrow Tongue Lug

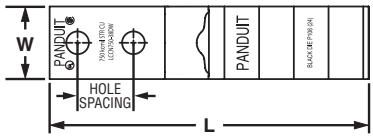
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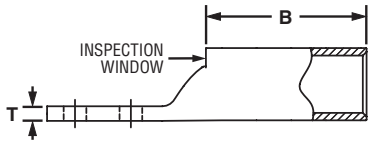
For Use with Stranded Copper Conductors

Type LCCN-W

- Narrow tongue width for limited space applications
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Inspection window to visually assure full conductor insertion
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- Available with NEMA hole sizes and spacing







	Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCCN750-38DW-6	750 kcmil	3/8	1.00	1.30	2.88	0.28	5.72	Black	P106	24	106	2 15/16	6
◆	LCCN750-12W-6		1/2	1.75	1.30	2.88	0.28	6.66						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

LCP Series of Large Wire Copper Compression Lugs

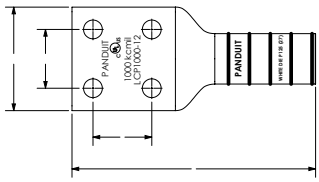
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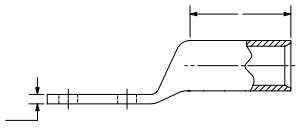
For Use with Stranded Copper Conductors

Type LCP

- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Enclosed barrel prevents corrosive material from entering barrel when used in harsh environments
- Tin-plated to inhibit corrosion
- UL 467 Listed in the U.S. and Canada for grounding and bonding when crimped with specified Panduit crimp tools and dies. NOT recommended for direct burial applications
- UL Listed 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools
- NEMA hole sizes and spacing







Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.	Burndy Die Index No.	T&B Die Index No.	Wire Strip Length (In.)	Std. Pkg. Qty.
LCP750-12-3	750 kcmil	1/2	3.00	2.88	0.26	7.25	Black	P106	24	106	2 15/16	3
LCP1000-12-3	1000 kcmil	1/2	3.08	3.00	0.28	7.25	White	P125	27	125	3 1/16	3

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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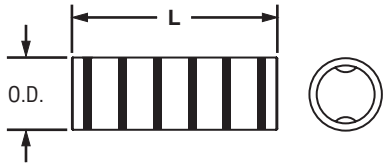
Code Conductor, Standard Barrel, Butt Splice

For Use with Stranded Copper Conductors

Type SCS

- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Internal wire stops to prevent over-insertion of conductor
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping approved





Part Number	Copper Conductor Size	Figure Dimensions (In.)		Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
		Barrel O.D.	L						
SCS8-L	#8 AWG	0.27	1.50	Red	P21	49	21	11/16	50
SCS6-L	#6 AWG	0.31	1.75	Blue	P24	7	24		
SCS4-L	#4 – #3 AWG STR, #2 AWG SOL	0.38	1.75	Gray	P29	8	29		
SCS2-Q	#2 AWG	0.42	1.87	Brown	P33	10	33	7/8	25
SCS1-E	#1 AWG	0.47	1.87	Green	P37	11	37	7/8	20
SCS1/0-X	1/0 AWG	0.52	1.87	Pink	P42	12	42	7/8	10
SCS2/0-X	2/0 AWG	0.58	2.00	Black	P45	13	45	15/16	
SCS3/0-X	3/0 AWG	0.64	2.12	Orange	P50	14	50	1	
SCS4/0-X	4/0 AWG	0.71	2.12	Purple	P54	15	54	1	
SCS250-X	250 kcmil	0.77	2.25	Yellow	P62	16	62	1 1/16	
SCS300-X	300 kcmil	0.81	2.25	White	P66	17	66	1 1/16	
SCS350-X	350 kcmil	0.87	2.37	Red	P71	18	71	1 1/8	
SCS400-6	400 kcmil	0.95	2.50	Blue	P76	19	76	1 3/16	6
SCS500-6	500 kcmil	1.05	2.87	Brown	P87	20	87	1 3/8	
SCS600-6	600 kcmil	1.18	2.87	Green	P94	22	94	1 3/8	
SCS750-6	750 kcmil	1.29	3.37	Black	P106	24	106	1 5/8	
SCS1000-3	1000 kcmil	1.50	3.87	White	P125	27	125	1 7/8	3

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Long Barrel, Butt Splice

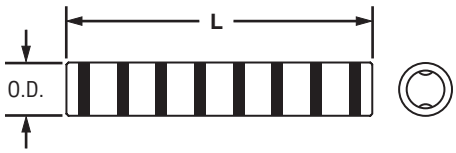
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For Use with Stranded Copper Conductors

Type SCL

- Long barrel maximizes the number of crimps and provides premium wire pull-out strength and electrical performance
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Internal wire stops to prevent over-insertion of conductor
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡
- Tested by Telcordia – meets NEBS Level 3





Part Number	Copper Conductor Size	Figure Dimensions (In.)		Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
		Barrel O.D.	L						
SCL8-L	#8 AWG	0.27	2.25	Red	P21	49	21	1 1/16	50
SCL6-L	#6 AWG	0.31	2.38	Blue	P24	7	24	1 1/8	
SCL4-L	#4 – #3 AWG STR, #2 AWG SOL	0.38	2.38	Gray	P29	8	29	1 1/8	
SCL2-Q	#2 AWG	0.42	2.62	Brown	P33	10	33	1 1/4	25
SCL1-E	#1 AWG	0.47	2.87	Green	P37	11	37	1 3/8	20
SCL1/0-X	1/0 AWG	0.52	2.87	Pink	P42	12	42	1 3/8	10
SCL2/0-X	2/0 AWG	0.58	3.13	Black	P45	13	45	1 1/2	
SCL3/0-X	3/0 AWG	0.64	3.12	Orange	P50	14	54	1 1/2	
SCL4/0-X	4/0 AWG	0.71	3.37	Purple	P54	15	54	1 5/8	
SCL250-X	250 kcmil	0.77	3.38	Yellow	P62	16	62	1 5/8	
SCL300-X	300 kcmil	0.81	4.12	White	P66	17	66	2	
SCL350-X	350 kcmil	0.88	4.12	Red	P71	18	71	2	
SCL400-6	400 kcmil	0.95	4.37	Blue	P76	19	76	2 1/8	6
SCL500-6	500 kcmil	1.06	4.62	Brown	P87	20	87	2 1/4	
SCL600-6	600 kcmil	1.19	5.50	Green	P94	22	94	2 11/16	
SCL750-6	750 kcmil	1.30	5.87	Black	P106	24	106	2 7/8	
SCL1000-3	1000 kcmil	1.50	6.12	White	P125	27	125	3	3

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, Color-Coded Parallel Splice

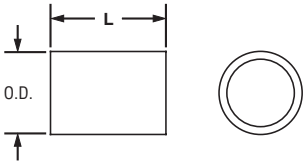
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For Use with Stranded Copper Conductors

Type PSC

- Industry recognized color-coding allows proper part selection and quick identification of crimping dies to speed installation
- Large easy-to-read part numbering for verification in demanding low light conditions
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit dieless and die type crimping tools
- Single crimp design speeds installation and reduces labor costs
- Chamfered on both ends to facilitate fast and easy conductor insertion to speed installation





Part Number	Figure Dimensions (In.)		Panduit Color Code	Panduit Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Barrel O.D.	L				
PSCRED-L	0.27	0.50	Red	P21	7/16	50
PSCBLU-L	0.31	0.50	Blue	P24		
PSCGRY-L	0.38	0.50	Gray	P29		
PSCBRN-L	0.47	0.62	Brown	P33	11/16	50
PSCGRN-L	0.52	0.62	Green	P37		
PSCPNK-L	0.58	0.62	Pink	P42		
PSCBLK-Q	0.64	0.81	Black	P45	7/8	25
PSCORG-Q	0.71	0.81	Orange	P50		
PSCPUR-Q	0.77	0.88	Purple	P54	1	25
PSCYEL-Q	0.81	1.05	Yellow	P62	1 1/16	25

‡Visit www.panduit.com/tools for tool and die information. For smaller wires sizes, see pages D1.51 – D1.54.
For heat shrink end caps and tubing see pages C3.20 – C3.41.
For thermal transfer labeling solutions see pages E1.1 – E2.29.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

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Copper Compression Parallel Splice

How to Use This Guide

Example: (3) #14 AWG wires
(2) #12 AWG wires

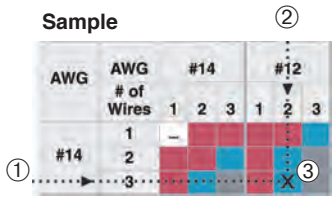
① In Table 1 find #14 AWG wire size and # of wires on vertical axis.

② Find #12 AWG wire size and # of wires on horizontal axis.

③ Find the intersection of ① and ② to identify the correct color coded splice, which corresponds to the part number in Table 2. ■ blue = PSCBLU-L

④ See tool solutions catalog for proper die index number, wire strip length, and number of crimps.

Sample



LISTED CERTIFIED RoHS

	Part Number	Barrel O.D. (In.)	Length (In.)	Panduit Color Code	Panduit Die Index No.	Std. Pkg. Qty.
	PSCRED-L	0.27	0.50	Red	P21	50
③	PSCBLU-L	0.31	0.50	Blue	P24	
	PSCGRY-L	0.38	0.50	Gray	P29	
	PSCBRN-L	0.47	0.62	Brown	P33	
	PSCGRN-L	0.52	0.62	Green	P37	
	PSCPNK-L	0.58	0.62	Pink	P42	
	PSCBLK-Q	0.64	0.81	Black	P45	25
	PSCORG-Q	0.71	0.81	Orange	P50	
	PSCPUR-Q	0.77	0.88	Purple	P54	
	PSCYEL-Q	0.81	1.05	Yellow	P62	

Table 2

AWG	AWG # of Wires	#14			#12			#10			#8			#6			#4			#2			#1			1/0			2/0			3/0		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
#14	1	–											–		–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2												–		–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3												–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
#12	1																					–			–			–			–		
	2																					–			–			–			–		
	3																					–			–			–			–		
#10	1																					–			–			–			–		
	2																					–			–			–			–		
	3																					–			–			–			–		
#8	1																					–			–			–			–		
	2																					–			–			–			–		
	3	–	–	–																		–			–	–	–						
#6	1																					–			–			–			–		
	2	–	–	–																		–			–			–			–		
	3	–	–	–																		–			–	–	–						
#4	1			–																		–			–			–			–		
	2	–	–	–																		–			–	–	–						
	3	–	–	–															–			–			–	–	–		–	–	–	–	–	–
#2	1	–	–	–																		–			–	–	–						
	2	–	–	–															–			–			–	–	–		–	–	–	–	–	–
	3	–	–	–																						–	–	–	–	–	–	–	–	–
#1	1	–	–	–																		–			–	–	–						
	2	–	–	–															–			–			–	–	–		–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1/0	1	–	–	–																		–			–	–	–		–	–	–	–	–	–
	2	–	–	–									–			–			–			–			–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2/0	1	–	–	–																		–			–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3/0	1	–	–	–																		–			–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Table 1

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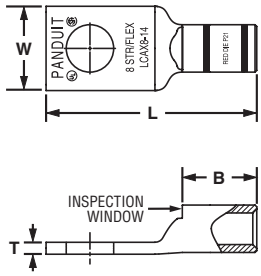
Flex Conductor, One-Hole, Standard Barrel with Window Lug

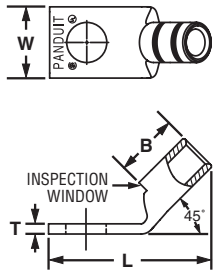
For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

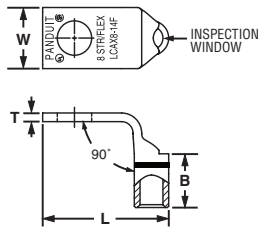
Type LCAX

- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit® and specified competitor crimping tools and dies
- American Bureau of Shipping approved
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Flex Conductor Size: Class G, H, I, K, M	Flex Conductor Size: Diesel Locomotive	Code Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.): W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
LCAX8-10-L	#8 AWG	#8 AWG	#8 AWG	#10	0.41	0.42	0.08	1.11	Red	P21	49	21	1/2	50
LCAX8-14-L				1/4	0.48	0.42	0.07	1.20						
LCAX8-56-L				5/16	0.56	0.42	0.05	1.32						
LCAX8-38-L				3/8	0.60	0.42	0.05	1.42						
LCAX6-10-L	#6 AWG	#6 AWG	#6 AWG	#10	0.45	0.48	0.09	1.19	Blue	P24	7	24	9/16	50
LCAX6-14-L				1/4	0.48	0.48	0.08	1.28						
LCAX6-56-L				5/16	0.56	0.48	0.07	1.40						
LCAX6-38-L				3/8	0.62	0.48	0.06	1.50						
LCAX4-10-L	#4 AWG	#5, #4, #3 AWG	#4 AWG	#10	0.55	0.53	0.09	1.26	Gray	P29	8	29	5/8	50
LCAX4-14-L				1/4	0.55	0.53	0.09	1.35						
LCAX4-56-L				5/16	0.55	0.53	0.09	1.47						
LCAX4-38-L				3/8	0.62	0.53	0.07	1.57						
LCAX2-10-E*	#2 AWG	#2 AWG	#2 AWG	#10	0.70	0.59	0.11	1.40	Brown	P33	10	33	11/16	20
LCAX2-14-E*				1/4	0.70	0.59	0.11	1.50						
LCAX2-56-E*				5/16	0.70	0.59	0.11	1.63						
LCAX2-38-E*				3/8	0.70	0.59	0.11	1.70						
LCAX2-12-E*				1/2	0.75	0.59	0.09	1.94						
LCAX1-10-X	#1 AWG	#1 AWG	#1 AWG	#10	0.76	0.66	0.12	1.50	Green	P37	11	37	3/4	10
LCAX1-14-X				1/4	0.76	0.66	0.12	1.67						
LCAX1-56-X				5/16	0.76	0.66	0.12	1.72						
LCAX1-38-X				3/8	0.76	0.66	0.12	1.80						
LCAX1-12-X				1/2	0.80	0.66	0.12	2.03						
LCAX1/0-14-X	1/0 AWG	1/0 AWG	1/0 AWG	1/4	0.85	0.72	0.13	1.82	Pink	P42	12	42	3/4	10
LCAX1/0-56-X				5/16	0.85	0.72	0.13	1.82						
LCAX1/0-38-X				3/8	0.85	0.72	0.13	1.89						
LCAX1/0-12-X				1/2	0.85	0.72	0.13	2.14						
LCAX1/0-58-X				5/8	0.96	0.72	0.11	2.38						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Flex Conductor, One-Hole, Standard Barrel with Window Lug (continued)

Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive			W	B	T	L						
LCAX2/0-10-X	2/0 AWG	2/0 AWG	2/0 AWG	#10	0.96	0.83	0.13	1.72	Black	P45	13	45	7/8	10
LCAX2/0-14-X				1/4	0.96	0.83	0.13	1.97						
LCAX2/0-56-X				5/16	0.96	0.83	0.13	1.97						
LCAX2/0-38-X				3/8	0.96	0.83	0.13	2.03						
LCAX2/0-12-X				1/2	0.96	0.83	0.13	2.28						
LCAX2/0-58-X				5/8	0.96	0.83	0.13	2.52						
LCAX3/0-10-X	3/0 AWG	3/0 AWG	3/0 AWG	#10	1.06	0.91	0.14	1.84	Orange	P50	14	50	1	10
LCAX3/0-14-X				1/4	1.06	0.91	0.14	2.08						
LCAX3/0-56-X				5/16	1.06	0.91	0.14	2.10						
LCAX3/0-38-X				3/8	1.06	0.91	0.14	2.17						
LCAX3/0-12-X				1/2	1.06	0.91	0.14	2.40						
LCAX3/0-58-X				5/8	1.06	0.91	0.14	2.64						
LCAX4/0-14-X	4/0 AWG	4/0 AWG	4/0 AWG	1/4	1.19	1.03	0.16	2.30	Purple	P54	15	54	1 1/16	10
LCAX4/0-56-X				5/16	1.19	1.03	0.16	2.53						
LCAX4/0-38-X				3/8	1.19	1.03	0.16	2.53						
LCAX4/0-12-X				1/2	1.19	1.03	0.16	2.64						
LCAX4/0-58-X				5/8	1.19	1.03	0.16	2.85						
LCAX4/0-34-X				3/4	1.19	1.03	0.16	3.04						
LCAX250-14-X	250 kcmil	262.6 kcmil	—	1/4	1.28	1.03	0.17	2.34	Yellow	P62	16	62	1 1/16	10
LCAX250-56-X				5/16	1.28	1.03	0.17	2.57						
LCAX250-38-X				3/8	1.28	1.03	0.17	2.57						
LCAX250-12-X				1/2	1.28	1.03	0.17	2.68						
LCAX250-58-X				5/8	1.28	1.03	0.17	2.89						
LCAX250-34-X				3/4	1.28	1.03	0.17	3.08						
LCAX300-38-6	300 kcmil	313.1 kcmil	—	3/8	1.39	1.19	0.18	2.91	Red	P71	18	71H	1 1/4	6
LCAX300-12-6				1/2	1.39	1.19	0.18	2.91						
LCAX300-58-6				5/8	1.39	1.19	0.18	3.12						
LCAX350-56-6	350 kcmil	373.7 kcmil	—	5/16	1.54	1.29	0.22	2.93	Blue	P76	19	76H	1 3/8	6
LCAX350-38-6				3/8	1.54	1.29	0.22	2.93						
LCAX350-12-6				1/2	1.54	1.29	0.22	3.09						
LCAX350-58-6				5/8	1.54	1.29	0.22	3.30						
LCAX450-12-6	450 kcmil	444.4 kcmil	—	1/2	1.70	1.40	0.26	3.60	Brown	P87	20	87H	1 7/16	6
LCAX450-58-6				5/8	1.70	1.40	0.26	3.73						
LCAX500-56-6	500 kcmil	535.3 kcmil	—	5/16	1.89	1.48	0.26	3.27	Pink	P99	L99	99H	1 9/16	6
LCAX500-38-6				3/8	1.89	1.48	0.26	3.27						
LCAX500-12-6				1/2	1.89	1.48	0.26	3.64						
LCAX500-58-6				5/8	1.89	1.48	0.26	4.20						
LCAX650-56-6	—	646.4 kcmil	—	5/16	1.95	1.45	0.30	3.27	Black	P106	24	106H	1 1/2	6
LCAX650-38-6				3/8	1.95	1.45	0.30	3.27						
LCAX650-12-6				1/2	1.95	1.45	0.30	3.64						
LCAX650-58-6				5/8	1.95	1.45	0.30	4.20						
LCAX750-12-3	—	777.7 kcmil	—	1/2	2.17	1.66	0.32	3.94	Yellow	P115	L115	115H	1 3/4	3
LCAX750-58-3				5/8	2.17	1.66	0.32	4.59						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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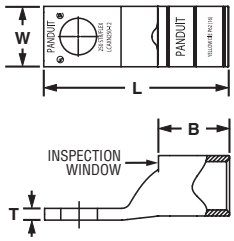
Flex Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug

For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

Type LCAXN

- Narrow tongue width for limited space applications
- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies





Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)					Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive			ØI	W	B	T	L						
LCAXN4/0-14-X	4/0 AWG	4/0 AWG	—	1/4	—	0.81	1.03	0.20	2.32	Purple	P54	15	54	1 1/16	10
LCAXN4/0-56-X				5/16	—	0.81	1.03	0.20	2.55						
LCAXN4/0-38-X				3/8	—	0.81	1.03	0.20	2.55						
LCAXN750-12-3	—	777.7 kcmil	—	1/2	—	1.50	1.66	0.33	3.94	Yellow	P115	L115	115H	1 3/4	3
LCAXN1/0-12-X	1/0 AWG	1/0 AWG	1/0 AWG	1/2	0.45	0.7	0.98	0.15	2.42	Pink	P42	12	42	1-1/16	10
LCAXN1/0-14-X				1/4	0.45	0.58	0.98	0.15	2.09						
LCAXN1/0-38-X				3/8	0.45	0.58	0.98	0.15	2.17						
LCAXN1/0-56-X				5/16	0.45	0.58	0.98	0.14	2.09						
LCAXN2/0-12-X	2/0 AWG	2/0 AWG	1/0 AWG	1/2	0.51	0.77	1.14	0.15	2.61	Black	P45	13	45	1-3/16	10
LCAXN2/0-14-X			2/0 AWG	1/4	0.51	0.64	1.14	0.16	2.28						
LCAXN2/0-38-X			2/0 AWG	3/8	0.51	0.64	1.14	0.16	2.36						
LCAXN2/0-56-X			2/0 AWG	5/16	0.51	0.64	1.14	0.16	2.3						
LCAXN3/0-12-X	3/0 AWG	3/0 AWG	3/0 AWG	1/2	0.57	0.71	1.19	0.18	2.68	Orange	P50	14	50	1-1/4	10
LCAXN3/0-14-X				1/4	0.57	0.71	1.19	0.18	2.38						
LCAXN3/0-38-X				3/8	0.57	0.71	1.19	0.18	2.45						
LCAXN3/0-56-X				5/16	0.57	0.71	1.19	0.18	2.4						
LCAXN4/0-12-X	4/0 AWG	4/0 AWG	4/0 AWG	1/2	0.65	0.81	1.44	0.2	3.07	Purple	P54	15	54	1-1/2	10
LCAXN250-12-X	250 kcmil	262.6 kcmil	—	1/2	0.7	0.88	1.44	0.21	3.12	Yellow	P62	16	62	1-1/2	10
LCAXN250-38-X				3/8	0.7	0.88	1.44	0.21	3						
LCAXN250-56-X				5/16	0.7	0.88	1.44	0.21	3						
LCAXN300-12-6	300 kcmil	313.1 kcmil	—	1/2	0.76	0.95	1.5	0.23	3.24	Red	P71	18	71H	1-9/16	6
LCAXN350-12-6	350 kcmil	373.7 kcmil	—	1/2	0.84	1.06	1.75	0.26	3.57	Blue	P76	19	76H	1-13/16	6
LCAXN350-38-6				3/8	0.84	1.06	1.75	0.26	3.39						
LCAXN350-56-6				5/16	0.84	1.06	1.75	0.26	3.39						
LCAXN450-12-6	450 kcmil	444.4 kcmil	—	1/2	0.92	1.19	1.75	0.33	4.22	Brown	P87	20	87H	1-13/16	6
LCAXN500-12-6	500 kcmil	535.3 kcmil	—	1/2	1.03	1.3	1.75	0.32	4.03	Pink	P99	L99	99H	1-15/16	6
LCAXN500-38-6				3/8	1.03	1.3	1.75	0.32	3.84						

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

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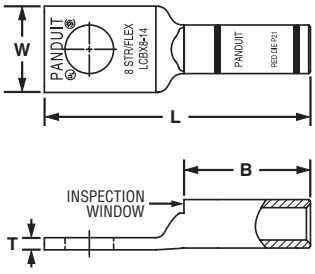
Flex Conductor, One-Hole, Long Barrel with Window Lug

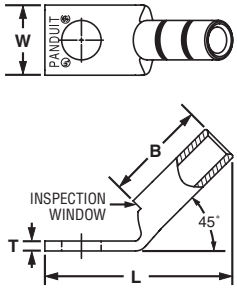
For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

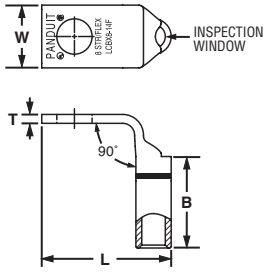
Type LCBX

- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive			W	B	T	L						
LCBX8-10-L	#8 AWG	#8 AWG	#8 AWG	#10	0.41	0.70	0.08	1.39	Red	P21	49	21	3/4	50
LCBX8-14-L				1/4	0.48	0.70	0.07	1.48						
LCBX8-38-L				3/8	0.60	0.70	0.05	1.70						
LCBX6-14-L	#6 AWG	#6 AWG	#6 AWG	1/4	0.48	1.07	0.08	1.86	Blue	P24	7	24	1 1/8	50
LCBX6-38-L				3/8	0.62	1.07	0.06	2.08						
LCBX4-14-L	#4 AWG	#5, #4, #3 AWG	#4 AWG	1/4	0.55	1.05	0.09	1.87	Gray	P29	8	29	1 1/8	50
LCBX4-38-L				3/8	0.62	1.05	0.07	2.09						
LCBX2-14-E*	#2 AWG	#2 AWG	#2 AWG	1/4	0.70	1.36	0.11	2.26	Brown	P33	10	33	1 7/16	20
LCBX2-38-E*				3/8	0.70	1.36	0.11	2.46						
LCBX2-12-E*				1/2	0.75	1.36	0.09	2.70						
LCBX1-14-X	#1 AWG	#1 AWG	#1 AWG	1/4	0.76	1.44	0.12	2.44	Green	P37	11	37	1 1/2	10
LCBX1-56-X				5/16	0.76	1.44	0.12	2.50						
LCBX1-38-X				3/8	0.76	1.44	0.12	2.57						
LCBX1/0-14-X	1/0 AWG	1/0 AWG	1/0 AWG	1/4	0.85	1.50	0.13	2.61	Pink	P42	12	42	1 9/16	10
LCBX1/0-38-X				3/8	0.85	1.50	0.13	2.67						
LCBX1/0-12-X				1/2	0.85	1.50	0.13	2.92						
LCBX2/0-14-X	2/0 AWG	2/0 AWG	2/0 AWG	1/4	0.96	1.50	0.13	2.64	Black	P45	13	45	1 9/16	10
LCBX2/0-38-X				3/8	0.96	1.50	0.13	2.70						
LCBX2/0-12-X				1/2	0.96	1.50	0.13	2.96						
LCBX3/0-38-X	3/0 AWG	3/0 AWG	3/0 AWG	3/8	1.06	1.56	0.14	2.81	Orange	P50	14	50	1 5/8	10
LCBX4/0-38-X	4/0 AWG	4/0 AWG	4/0 AWG	3/8	1.19	2.24	0.16	3.74	Purple	P54	15	54	2 5/16	10
LCBX4/0-12-X				1/2	1.19	2.24	0.16	3.85						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

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Flex Conductor, One-Hole, Long Barrel with Window Lug (continued)

Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive			W	B	T	L						
LCBX250-38-X	250 kcmil	262.6 kcmil	—	3/8	1.28	2.24	0.17	3.78	Yellow	P62	16	62	2 5/16	10
LCBX250-12-X			—	1/2	1.28	2.24	0.17	3.89						
LCBX250-58-X			—	5/8	1.28	2.24	0.17	4.10						
LCBX300-38-6	300 kcmil	313.1 kcmil	—	3/8	1.39	2.30	0.18	4.02	Red	P71	18	71H	2 3/8	6
LCBX350-38-6	350 kcmil	373.7 kcmil	—	3/8	1.54	2.50	0.22	4.14	Blue	P76	19	76H	2 9/16	6
LCBX350-12-6				1/2	1.54	2.50	0.22	4.30						
LCBX450-38-6	450 kcmil	444.4 kcmil	—	3/8	1.70	2.69	0.26	5.14	Brown	P87	20	87H	2 3/4	6
LCBX500-38-6	500 kcmil	535.3 kcmil	—	3/8	1.89	2.88	0.26	4.84	Pink	P99	L99	99H	2 15/16	6
LCBX500-12-6				1/2	1.89	2.88	0.26	5.03						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

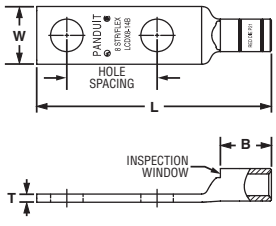
Flex Conductor, Two-Hole, Standard Barrel with Window Lug

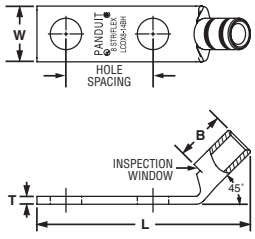
For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

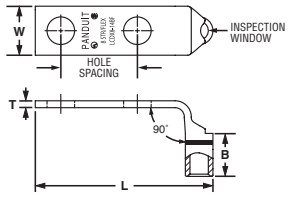
Type LCDX

- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 KV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- American Bureau of Shipping approved
- Available with NEMA hole sizes and spacing
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive				W	B	T	L						
LCDX8-10A-L	#8 AWG	#8 AWG	#8 AWG	#10	0.63	0.41	0.42	0.08	1.74	Red	P21	49	21	1/2	50
LCDX8-14A-L				1/4	0.63	0.48	0.42	0.07	1.83						
LCDX8-14B-L				1/4	0.75	0.48	0.42	0.07	1.95						
LCDX8-14D-L				1/4	1.00	0.48	0.42	0.07	2.20						
LCDX8-38D-L				3/8	1.00	0.60	0.42	0.05	2.42						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

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Flex Conductor, One-Hole, Long Barrel with Window Lug (continued)

Part Number	Flex Conductor Size: Class G, H, I, K, M	Flex Conductor Size: Diesel Locomotive	Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.): W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
LCDX6-10A-L	#6 AWG	#6 AWG	#6 AWG	#10	0.63	0.46	0.48	0.08	1.82	Blue	P24	7	24	9/16	50
LCDX6-10B-L				#10	0.75	0.46	0.48	0.08	1.94						
LCDX6-10G-L				#10	1.50	0.46	0.48	0.08	2.69						
LCDX6-10P-L				#10	0.69	0.46	0.48	0.08	1.88						
LCDX6-14A-L				1/4	0.63	0.48	0.48	0.08	1.91						
LCDX6-14B-L				1/4	0.75	0.48	0.48	0.08	2.03						
LCDX6-14D-L				1/4	1.00	0.48	0.48	0.08	2.28						
LCDX6-56D-L				5/16	1.00	0.56	0.48	0.07	2.40						
LCDX6-38D-L				3/8	1.00	0.62	0.48	0.06	2.50						
LCDX4-14A-L	#4 AWG	#5, #4, #3 AWG	#4 AWG	1/4	0.63	0.55	0.53	0.09	1.98	Gray	P29	8	29	5/8	50
LCDX4-14B-L				1/4	0.75	0.55	0.53	0.09	2.10						
LCDX4-14D-L				1/4	1.00	0.55	0.53	0.09	2.35						
LCDX4-56D-L				5/16	1.00	0.55	0.53	0.09	2.47						
LCDX4-38D-L				3/8	1.00	0.62	0.53	0.08	2.57						
LCDX2-14A-E*	#2 AWG	#2 AWG	#2 AWG	1/4	0.63	0.70	0.59	0.11	2.13	Brown	P33	10	33	11/16	20
LCDX2-14B-E*				1/4	0.75	0.70	0.59	0.11	2.25						
LCDX2-14D-E*				1/4	1.00	0.70	0.59	0.11	2.50						
LCDX2-56D-E*				5/16	1.00	0.70	0.59	0.11	2.63						
LCDX2-38D-E*				3/8	1.00	0.70	0.59	0.11	2.70						
LCDX2-12-E*				1/2	1.75	0.75	0.59	0.09	3.87						
LCDX1-14A-X	#1 AWG	#1 AWG	#1 AWG	1/4	0.63	0.76	0.66	0.12	2.29	Green	P37	11	37	3/4	10
LCDX1-14B-X				1/4	0.75	0.76	0.66	0.12	2.42						
LCDX1-14D-X				1/4	1.00	0.76	0.66	0.12	2.67						
LCDX1-56D-X				5/16	1.00	0.76	0.66	0.12	2.72						
LCDX1-38D-X				3/8	1.00	0.76	0.66	0.12	2.80						
LCDX1-12-X				1/2	1.75	0.80	0.66	0.12	3.97						
LCDX1/0-14A-X	1/0 AWG	1/0 AWG	1/0 AWG	1/4	0.63	0.85	0.72	0.13	2.45	Pink	P42	12	42	3/4	10
LCDX1/0-14B-X				1/4	0.75	0.85	0.72	0.13	2.57						
LCDX1/0-56B-X				5/16	0.75	0.85	0.72	0.13	2.57						
LCDX1/0-56D-X				5/16	1.00	0.85	0.72	0.13	2.82						
LCDX1/0-38D-X				3/8	1.00	0.85	0.72	0.13	2.89						
LCDX1/0-12D-X				1/2	1.00	0.85	0.72	0.13	3.14						
LCDX1/0-12-X				1/2	1.75	0.85	0.72	0.13	4.05						
LCDX2/0-14A-X	2/0 AWG	2/0 AWG	2/0 AWG	1/4	0.63	0.96	0.83	0.13	2.59	Black	P45	13	45	7/8	10
LCDX2/0-14B-X				1/4	0.75	0.96	0.83	0.13	2.72						
LCDX2/0-56D-X				5/16	1.00	0.96	0.83	0.13	2.97						
LCDX2/0-38D-X				3/8	1.00	0.96	0.83	0.13	3.03						
LCDX2/0-12D-X				1/2	1.00	0.96	0.83	0.13	3.28						
LCDX2/0-12-X				1/2	1.75	0.96	0.83	0.13	4.19						
LCDX3/0-14A-X	3/0 AWG	3/0 AWG	3/0 AWG	1/4	0.63	1.06	0.91	0.14	2.71	Orange	P50	14	50	1	10
LCDX3/0-56D-X				5/16	1.00	1.06	0.91	0.14	3.10						
LCDX3/0-38D-X				3/8	1.00	1.06	0.91	0.14	3.17						
◆ LCDX3/0-12-X				1/2	1.75	1.06	0.91	0.14	4.31						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

Continued on next page

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Flex Conductor, Two-Hole, Standard Barrel with Window Lug (continued)

	Part Number	Flex Conductor Size: Class G, H, I, K, M	Flex Conductor Size: Diesel Locomotive	Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.): W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCDX4/0-14A-X	4/0 AWG	4/0 AWG	4/0 AWG	1/4	0.63	1.19	1.03	0.16	2.74	Purple	P54	15	54	1 1/16	10
	LCDX4/0-14B-X				1/4	0.75	1.19	1.03	0.16	2.96						
	LCDX4/0-56D-X				5/16	1.00	1.19	1.03	0.16	3.31						
	LCDX4/0-38D-X				3/8	1.00	1.19	1.03	0.16	3.34						
	LCDX4/0-12D-X				1/2	1.00	1.19	1.03	0.16	3.61						
	LCDX4/0-12E-X				1/2	1.25	1.19	1.03	0.16	3.89						
◆	LCDX4/0-12-X				1/2	1.75	1.19	1.03	0.16	4.52						
	LCDX250-38D-X	250 kcmil	262.6 kcmil	—	3/8	1.00	1.28	1.03	0.17	3.38	Yellow	P62	16	62	1 1/16	10
	LCDX250-38-X				3/8	1.75	1.28	1.03	0.17	4.13						
	LCDX250-12E-X				1/2	1.25	1.28	1.03	0.17	3.93						
◆	LCDX250-12-X				1/2	1.75	1.28	1.03	0.17	4.56						
	LCDX300-38D-6	300 kcmil	313.1 kcmil	—	3/8	1.00	1.39	1.19	0.18	3.56	Red	P71	18	71H	1 1/4	6
◆	LCDX300-12-6				1/2	1.75	1.39	1.19	0.18	4.74						
	LCDX350-56D-6	350 kcmil	373.7 kcmil	—	5/16	1.00	1.54	1.29	0.22	3.71	Blue	P76	19	76H	1 3/8	6
	LCDX350-38D-6				3/8	1.00	1.54	1.29	0.22	3.74						
	LCDX350-38-6				3/8	1.75	1.54	1.29	0.22	4.49						
	LCDX350-12E-6				1/2	1.25	1.54	1.29	0.22	4.29						
◆	LCDX350-12-6				1/2	1.75	1.54	1.29	0.22	4.92						
	LCDX450-38D-6	450 kcmil	444.4 kcmil	—	3/8	1.00	1.70	1.40	0.26	3.90	Brown	P87	20	87H	1 7/16	6
◆	LCDX450-12-6				1/2	1.75	1.70	1.40	0.26	5.08						
	LCDX500-56D-6	500 kcmil	535.3 kcmil	—	5/16	1.00	1.89	1.48	0.26	4.05	Pink	P99	L99	99H	1 9/16	6
	LCDX500-38D-6				3/8	1.00	1.89	1.48	0.26	4.08						
	LCDX500-12E-6				1/2	1.25	1.89	1.48	0.26	4.76						
◆	LCDX500-12-6				1/2	1.75	1.89	1.48	0.26	5.26						
◆	LCDX600-12-6	600 kcmil Class G, H, I only	—	—	1/2	1.75	1.89	1.48	0.26	5.26	Pink	P99	400	99H	1 9/16	6
	LCDX650-38D-6	—	646.4 kcmil	—	3/8	1.00	1.95	1.45	0.30	4.08	Black	P106	24	106H	1 1/2	6
◆	LCDX650-12-6				1/2	1.75	1.95	1.45	0.30	5.26						
	LCDX750-38D-3	—	777.7 kcmil	—	3/8	1.00	2.17	1.66	0.32	4.62	Yellow	P115	L115	115H	1 3/4	3
	LCDX750-12E-3				1/2	1.25	2.17	1.66	0.32	5.06						
	LCDX750-12G-3				1/2	1.50	2.17	1.66	0.32	5.31						
◆	LCDX750-12-3				1/2	1.75	2.17	1.66	0.32	5.56						
	LCDX750-58G-3				5/8	1.50	2.17	1.66	0.32	5.37						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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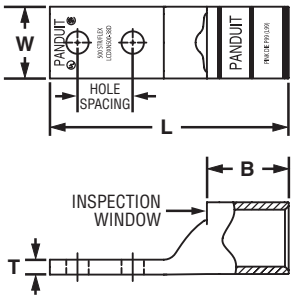
Flex Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug

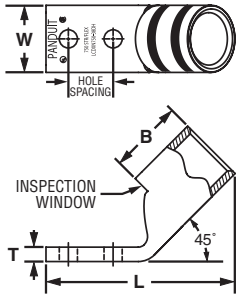
For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

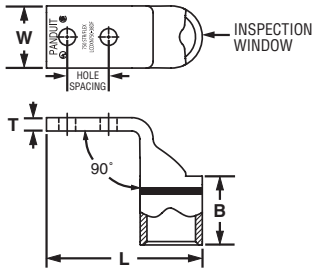
Type LCDXN

- Narrow tongue width for limited space applications
- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- Available with NEMA hole sizes and spacing
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com









	Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
		Class G, H, I, K, M	Diesel Locomotive				W	B	T	L						
	LCDXN2-14A-E*	#2 AWG	#2 AWG	#2 AWG	1/4	0.63	0.47	0.59	0.11	2.13	Brown	P33	10	33	11/16	20
	LCDXN4/0-38D-X	4/0 AWG	4/0 AWG	4/0 AWG	3/8	1.00	0.81	1.03	0.16	3.34	Purple	P54	15	54	1 1/16	10
	LCDXN350-38D-6	350 kcmil	373.7 kcmil	—	3/8	1.00	1.06	1.29	0.22	3.74	Blue	P76	19	76H	1 3/8	6
	LCDXN500-38D-6	500 kcmil	535.3 kcmil	—	3/8	1.00	1.30	1.48	0.28	4.32	Pink	P99	L99	99H	1 9/16	6
◆	LCDXN500-12-6			—	1/2	1.75	1.30	1.48	0.32	5.31						
	LCDXN750-38D-3	—	777.7 kcmil	—	3/8	1.00	1.50	1.66	0.34	4.62	Yellow	P115	L115	115H	1 3/4	3
◆	LCDXN750-12-3			—	1/2	1.75	1.50	1.66	0.35	5.55						

*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

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Flex Conductor, Two-Hole, Long Barrel with Window Lug

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For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors

Type LCCX

- Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- Available with NEMA hole sizes and spacing
- Lugs available in 90 and 45 degree bent tongue. Please refer to www.panduit.com



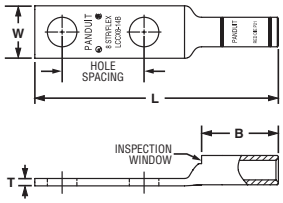


Figure 1

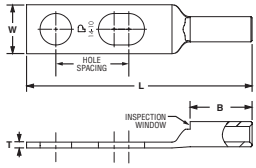


Figure 2: Slotted

Part Number	Flex Conductor Size		Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class G, H, I, K, M	Diesel Locomotive				W	B	T	L						
LCCX8-10A-L	#8 AWG	#8 AWG	#8 AWG	#10	0.63	0.41	0.70	0.08	2.01	Red	P21	49	21	3/4	50
LCCX8-10B-L				#10	0.75	0.41	0.70	0.08	2.14						
LCCX8-10AB-L^				#10	0.63 – 0.75	0.41	0.70	0.08	2.14						
LCCX8-14A-L				1/4	0.63	0.48	0.70	0.07	2.10						
LCCX8-14B-L				1/4	0.75	0.48	0.70	0.07	2.23						
LCCX8-14AB-L^				1/4	0.63 – 0.75	0.48	0.70	0.07	2.23						
LCCX8-14D-L				1/4	1.00	0.48	0.70	0.07	2.48						
LCCX8-38D-L				3/8	1.00	0.60	0.70	0.05	2.70						
LCCX6-10B-L	#6 AWG	#6 AWG	#6 AWG	#10	0.75	0.46	1.07	0.08	2.52	Blue	P24	7	24	1 1/8	50
LCCX6-14A-L				1/4	0.63	0.48	1.07	0.08	2.49						
LCCX6-14B-L				1/4	0.75	0.48	1.07	0.08	2.61						
LCCX6-14AB-L^				1/4	0.63 – 0.75	0.48	1.07	0.08	2.61						
LCCX6-14D-L				1/4	1.00	0.48	1.07	0.08	2.86						
LCCX6-38A-L				3/8	0.63	0.62	1.07	0.06	2.71						
LCCX6-38C-L				3/8	0.88	0.62	1.07	0.06	2.96						
LCCX6-38AC-L^				3/8	0.63 – 0.88	0.62	1.07	0.06	2.96						
LCCX6-38D-L				3/8	1.00	0.62	1.07	0.06	3.08						
LCCX4-14A-L	#4 AWG	#5, #4, #3 AWG	#4 AWG	1/4	0.63	0.55	1.05	0.09	2.49	Gray	P29	8	29	1 1/8	50
LCCX4-14B-L				1/4	0.75	0.55	1.05	0.09	2.63						
LCCX4-14AB-L^				1/4	0.63 – 0.75	0.55	1.05	0.09	2.63						
LCCX4-14CE-L^				1/4	0.88 – 1.25	0.55	1.05	0.09	3.12						
LCCX4-38B-L				3/8	0.75	0.62	1.05	0.08	2.84						
LCCX4-38D-L				3/8	1.00	0.62	1.05	0.08	3.09						
LCCX4-38BD-L^				3/8	0.75 – 1.00	0.62	1.05	0.08	3.09						

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Slotted lug, refer to Figure 2.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Flex Conductor, Two-Hole, Long Barrel with Window Lug (continued)

	Part Number	Flex Conductor Size: Class G, H, I, K, M	Flex Conductor Size: Diesel Locomotive	Code Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.): W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCCX2-14A-E*	#2 AWG	#2 AWG	#2 AWG	1/4	0.63	0.70	1.36	0.11	2.89	Brown	P33	10	33	1 7/16	20
	LCCX2-14B-E*				1/4	0.75	0.70	1.36	0.11	3.01						
	LCCX2-38D-E*				3/8	1.00	0.70	1.36	0.11	3.46						
	LCCX2-12-E*				1/2	1.75	0.75	1.36	0.09	4.63						
	LCCX1-14A-X	#1 AWG	#1 AWG	#1 AWG	1/4	0.63	0.76	1.44	0.12	3.07	Green	P37	11	37	1 1/2	10
	LCCX1-14B-X				1/4	0.75	0.76	1.44	0.12	3.19						
	LCCX1-14D-X				1/4	1.00	0.76	1.44	0.12	3.44						
	LCCX1-56C-X				5/16	0.88	0.76	1.44	0.12	3.37						
	LCCX1-56D-X				5/16	1.00	0.76	1.44	0.12	3.50						
	LCCX1-38D-X				3/8	1.00	0.76	1.44	0.12	3.57						
	LCCX1/0-14A-X	1/0 AWG	1/0 AWG	1/0 AWG	1/4	0.63	0.85	1.50	0.13	3.23	Pink	P42	12	42	1 9/16	10
	LCCX1/0-14B-X				1/4	0.75	0.85	1.50	0.13	3.36						
	LCCX1/0-38D-X				3/8	1.00	0.85	1.50	0.13	3.67						
	LCCX1/0-12-X				1/2	1.75	0.85	1.50	0.13	4.83						
	LCCX2/0-14A-X	2/0 AWG	2/0 AWG	2/0 AWG	1/4	0.63	0.96	1.50	0.13	3.27	Black	P45	13	45	1 9/16	10
	LCCX2/0-14B-X				1/4	0.75	0.96	1.50	0.13	3.39						
	LCCX2/0-38D-X				3/8	1.00	0.96	1.50	0.13	3.70						
	LCCX2/0-12-X				1/2	1.75	0.96	1.50	0.13	4.87						
	LCCX3/0-14B-X	3/0 AWG	3/0 AWG	3/0 AWG	1/4	0.75	1.06	1.56	0.14	3.48	Orange	P50	14	50	1 5/8	10
	LCCX3/0-38D-X				3/8	1.00	1.06	1.56	0.14	3.81						
	LCCX4/0-14B-X	4/0 AWG	4/0 AWG	4/0 AWG	1/4	0.75	1.19	2.24	0.16	4.07	Purple	P54	15	54	2 5/16	10
	LCCX4/0-38D-X				3/8	1.00	1.19	2.24	0.16	4.55						
◆	LCCX4/0-12-X				1/2	1.75	1.19	2.24	0.16	5.73						
	LCCX250-14B-X	250 kcmil	262.6 kcmil	—	1/4	0.75	1.28	2.24	0.17	4.11	Yellow	P62	16	62	2 5/16	10
	LCCX250-38D-X				3/8	1.00	1.28	2.24	0.17	4.59						
◆	LCCX250-12-X				1/2	1.75	1.28	2.24	0.17	5.77						
	LCCX300-38D-6	300 kcmil	313.1 kcmil	—	3/8	1.00	1.39	2.30	0.18	4.67	Red	P71	18	71H	2 3/8	6
	LCCX300-12-6				1/2	1.75	1.39	2.30	0.18	5.85						
	LCCX350-14B-6	350 kcmil	373.7 kcmil	—	1/4	0.75	1.54	2.50	0.22	4.47	Blue	P76	19	76H	2 9/16	6
	LCCX350-38D-6				3/8	1.00	1.54	2.50	0.22	4.95						
◆	LCCX350-12-6				1/2	1.75	1.54	2.50	0.22	6.13						
◆	LCCX450-12-6	450 kcmil	444.4 kcmil	—	1/2	1.75	1.70	2.69	0.26	6.37	Brown	P87	20	87	2 3/4	6
	LCCX500-38D-6	500 kcmil	535.3 kcmil	—	3/8	1.00	1.89	2.88	0.26	5.72	Pink	P99	L99	99H	2 15/16	6
◆	LCCX500-12-6				1/2	1.75	1.89	2.88	0.26	6.66						
◆	LCCX650-12-6	—	646.4 kcmil	—	1/2	1.75	1.95	2.94	0.30	6.75	Black	P106	24	106H	3.00	6

‡Visit www.panduit.com/tools for tool and die information.
*Not UL Listed or CSA Certified with Class K flex conductor when crimped with Burndy tools.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Slotted lug, refer to Figure 2.
◆NEMA hole sizes and spacing.

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Flex Conductor, Two-Hole, Long Barrel with Window, Narrow Tongue Lug

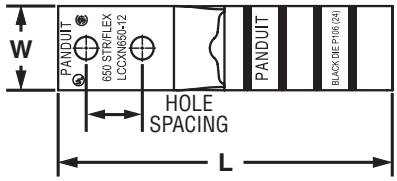
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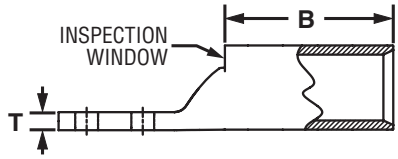
For Use with Flexible and Extra-Flexible Stranded Copper Conductors

Type LCCXN

- Narrow tongue width for limited space applications
- Can be used with flex conductor class: G, H, I, K, M and Diesel Locomotive
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- Available with NEMA hole sizes and spacing







	Part Number	Flex Conductor Size: Class G, H, I, K, M	Flex Conductor Size: Diesel Locomotive	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Figure Dimensions (In.): W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	LCCXN2-14A-E	2 AWG	2 AWG	1/4	0.625	0.47	1.36	0.13	3.01	Brown	P33	10	33	1 7/16	20
	LCCXN2-14B-E			1/4	0.75	0.47	1.36	0.13	3.01						
	LCCXN2-14D-E			1/4	1.0	0.47	1.36	0.13	3.01						
◆	**LCCXN450-12-6**	450 kcmil	444.4 kcmil	1/2	1.75	1.19	2.69	0.33	6.41	Brown	P87	20	87H	2 3/4	6
◆	**LCCXN500-12-6**	500 kcmil	535.3 kcmil	1/2	1.75	1.30	2.88	0.32	6.71	Pink	P99	L99	99H	2 15/16	6
◆	**LCCXN650-12-6**	–	646.4 kcmil	1/2	1.75	1.35	2.94	0.36	6.78	Black	P106	24	106	3	6
◆	**LCCXN750-12-3**	–	750 kcmil	1/2	1.75	1.5	3	0.32	6.9	Yellow	P115	L115	115H	3	3

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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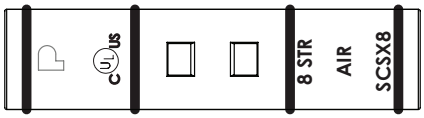
Uninsulated Butt Splice

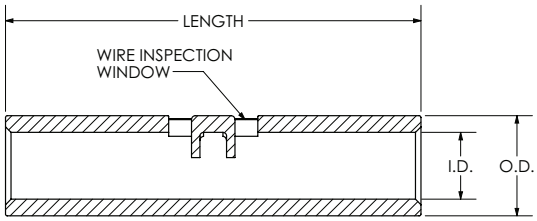
For Use with Stranded Copper Conductor

Type SCSX

- Can be used with flex conductor classes: G, H, I, K, M and Diesel Locomotive
- Can be used with Code conductors: Class B: compact, compressed and concentric, Class C: concentric
- Can be used with MIL-W-5086 aircraft wire
- Inspection windows in barrel to visually inspect wire is fully inserted into the barrel
- Color-coded barrels marked with Panduit die index numbers for proper crimp die selection
- Internal wire stops to prevent over-insertion of conductor
- Tin-plated to inhibit corrosion
- UL Listed to 35 kV** and temperature rated to 90°C when crimped with Panduit and select Burndy crimping tools and dies







Part Number	Classes B, C, G, H, I, K, M Diesel Locomotive and MIL-W-5086 Aircraft	Barrel O.D (In.)	Barrel I.D. (In.)	Length (In.)	Panduit Color Code	Panduit Die Index No.	Burndy Die Index No.	Wire Strip Length (In.)	Std. Pkg. Qty.
SCSX8-L	#8 AWG	0.27	0.18	1.12	Red	P21	49	9/16	50
SCSX6-L	#6 AWG	0.31	0.22	1.12	Blue	P24	7	9/16	
SCSX4-L	#4 AWG	0.38	0.28	1.18	Gray	P29	8	5/8	
SCSX2/0-X	2/0 AWG	0.64	0.51	1.82	Black	P45	13	7/8	10
SCSX4/0-X	4/0 AWG	0.81	0.65	2.24	Purple	P54	15	1-1/16	

**Consult with cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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Flex Conductor, Standard Barrel, Flared, NEBS Butt Splice

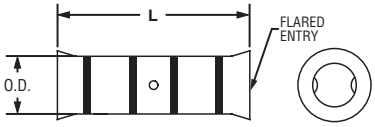
LISTED CERTIFIED

For use with Flexible and Extra-Flexible Copper Conductors

Type SCSF

- Can be used with flex conductor class: K, M, and Diesel Locomotive
- Flared entry prevents bent back strands when inserting fine strand conductor into barrel
- Color-coded barrels marked with Panduit die index numbers for proper crimp die selection
- Internal wire stops to prevent over-insertion of conductor
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit crimping tools and dies
- Tested by Telcordia – meets NEBS Level 3
- American Bureau of Shipping approved





Part Number	Flex Conductor Size		Figure Dimensions (In.)		Panduit Color Code	Panduit Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
	Class K and M	Diesel Locomotive	Barrel O.D.	L				
SCSF8-L	—	#8 AWG	0.27	1.50	Red	P21	11/16	50
SCSF6-L	#6 AWG	#6 AWG	0.31	1.75	Blue	P24	13/16	
SCSF4-L	#4 AWG	#4 AWG	0.38	1.75	Gray	P29	13/16	
SCSF2-E	#2 AWG	#2 AWG	0.47	1.87	Brown	P33	7/8	20
SCSF1-X	#1 AWG	#1 AWG	0.52	1.87	Pink	P42	7/8	10
SCSF1/0-X	1/0 AWG	1/0 AWG	0.58	2.50	Black	P45	1 3/16	
SCSF2/0-X	2/0 AWG	2/0 AWG	0.64	2.50	Orange	P50	1 3/16	
SCSF3/0-X	3/0 AWG	3/0 AWG	0.71	2.50	Purple	P54	1 3/16	
SCSF4/0-X	4/0 AWG	4/0 AWG	0.77	2.50	Yellow	P62	1 3/16	
SCSF250-X	250 kcmil	262.6 kcmil	0.88	2.50	White	P66	1 3/16	
SCSF300-6	300 kcmil	313.1 kcmil	0.95	2.56	Red	P71	1 1/4	6
SCSF350-6	350 kcmil	373.7 kcmil	1.06	2.94	Blue	P76	1 1/2	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

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Code/Flex Conductor, with Window, In-Line Reducing Splice Kit

Type RSCK

- Includes all components in one package for making a complete electrical connection: Panduit copper compression RSC in-line reducing splice (see pages D2.45 and D2.46) and crystal clear PVC heat shrink sleeves pre-cut to length to insulate reducing splice
- Panduit® RSC in-line reducing splice is UL Listed and temperature rated to 90°C when crimped with Panduit crimping tools and dies
- Panduit crystal clear PVC heat shrink has a UL 224 VW-1 flammability rating and passes Telcordia GR-347-CORE Compression and Cut-Through Penetration Test and Abrasion Resistance Test
- Panduit crystal clear PVC heat shrink is UL Recognized with a temperature rating of 150°C, high temperature insulating property
- Rated for 600 V applications when Panduit crystal clear PVC heat shrink is applied



Part Number	Part Description	Std. Pkg. Qty.
RSCK4-6-1	Kit contains: 1 pc. RSC4-6-L copper compression in-line reducing splice. 1 pc. HSTTPN50-713-Q crystal clear PVC heat shrink 1/2" dia. x 7.125" long.	1
RSCK2-6-1	Kit contains: 1 pc. RSC2-6-Q copper compression in-line reducing splice. 1 pc. HSTTPN62-750-Q crystal clear PVC heat shrink 5/8" dia. x 7.500" long.	
RSCK2-4-1	Kit contains: 1 pc. RSC2-4-Q copper compression in-line reducing splice. 1 pc. HSTTPN62-750-Q crystal clear PVC heat shrink 5/8" dia. x 7.500" long.	
RSCK1/0-6-1	Kit contains: 1 pc. RSC1/0-6-X copper compression in-line reducing splice. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long.	
RSCK1/0-4-1	Kit contains: 1 pc. RSC1/0-4-X copper compression in-line reducing splice. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long.	
RSCK2/0-6-1	Kit contains: 1 pc. RSC2/0-6-X copper compression in-line reducing splice. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long	
RSCK2/0-4-1	Kit contains: 1 pc. RSC2/0-4-X copper compression in-line reducing splice. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long.	
RSCK4/0-6-1	Kit contains: 1 pc. RSC4/0-6-X copper compression in-line reducing splice. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long.	
RSCK4/0-4-1	Kit contains: 1 pc. RSC4/0-4-X copper compression in-line reducing splice. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long. 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 1/2" dia. x 4.375" long.	
RSCK4/0-1/0-1	Kit contains: 1 pc. RSC4/0-1/0-X copper compression in-line reducing splice. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long.	
RSCK4/0-2/0-1	Kit contains: 1 pc. RSC4/0-2/0-X copper compression in-line reducing splice. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long. 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 3/4" dia. x 7.750" long.	
RSCK500-X4/0-1	Kit contains: 1 pc. RSC500-X4/0-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	

Continued on next page

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Code/Flex Conductor, with Window, In-Line Reducing Splice Kit (continued)



Part Number	Part Description	Std. Pkg. Qty.
RSCK500-X350-1	Kit contains: 1 pc. RSC500-X350-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	1
RSCK750-4/0-1	Kit contains: 1 pc. RSC750-4/0-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long.	
RSCK750-X4/0-1	Kit contains: 1 pc. RSC750-X4/0-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	
RSCK750-X350-1	Kit contains: 1 pc. RSC750-X350-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	
RSCK750-500-1	Kit contains: 1 pc. RSC750-500-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	
RSCK750-X500-1	Kit contains: 1 pc. RSC750-X500-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	
RSCK750-750-1	Kit contains: 1 pc. RSC750-750-6 copper compression in-line reducing splice. 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 1 1/2" dia. x 9.250" long.	
RSCKX750-4/0-1	Kit contains: 1 pc. RSCX750-4/0-3 copper compression in-line reducing splice. 1 pc. HSTTPN200-950-X crystal clear PVC heat shrink 2" dia. x 9.500" long. 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 1" dia. x 7.750" long.	
RSCKX750-750-1	Kit contains: 1 pc. RSCX750-750-3 copper compression in-line reducing splice. 1 pc. HSTTPN200-950-X crystal clear PVC heat shrink 2" dia. x 9.500" long.	

Order number of pieces required, in multiples of Standard Package Quantity.

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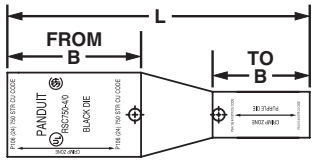
Code/Flex Conductor, with Window, In-Line Reducing Splice

For Use with Stranded Copper Code and Class I Flex Conductors

Type RSC

- Low profile design provides minimum space requirements
- Manufactured from seamless, high conductivity copper tubing
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection windows in each barrel to visually assure full conductor insertion
- Generous internally beveled wire entry for easy conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies





Part Number		Code Conductor Size	Figure Dimensions (In.) B	Figure Dimensions (In.) L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
RSC4-6-L	Reduces From	#4 – 3 AWG STR,#2 AWG SOL	1.05	2.54	Gray	P29	8	29	1	1
	Reduces To	#6 AWG	1.38		Blue	P24	7	24	1 5/16	
RSC2-6-Q	Reduces From	#2 AWG	1.05	2.62	Brown	P33	10	33	1	
	Reduces To	#6 AWG	1.38		Blue	P24	7	34	1 5/16	
RSC2-4-Q	Reduces From	#2 AWG	1.05	2.50	Brown	P33	10	33	1	
	Reduces To	#4 – 3 AWG STR,#2 AWG SOL	1.38		Gray	P29	8	29	1 5/16	
RSC1/0-6-X	Reduces From	1/0 AWG	1.05	2.81	Pink	P42	12	42	1	
	Reduces To	#6 AWG	1.38		Blue	P24	7	24	1 5/16	
RSC1/0-4-X	Reduces From	1/0 AWG	1.05	2.70	Pink	P42	12	42	1	
	Reduces To	#4 – 3 AWG STR,#2 AWG SOL	1.38		Gray	P29	8	29	1 5/16	
RSC2/0-6-X	Reduces From	2/0 AWG	1.13	2.99	Black	P45	13	45	1 1/16	
	Reduces To	#6 AWG	1.38		Blue	P24	7	24	1 5/16	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

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Code/Flex Conductor, with Window, In-Line Reducing Splice (continued)

Part Number		Code Conductor Size	Figure Dimensions (In.) B	Figure Dimensions (In.) L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
RSC2/0-4-X	Reduces From	2/0 AWG	1.13	2.88	Black	P45	13	45	1 1/16	1
	Reduces To	#4 – 3 AWG STR,#2 AWG SOL	1.38		Gray	P29	8	29	1 5/16	
RSC4/0-6-X	Reduces From	4/0 AWG	1.13	3.24	Purple	P54	15	54	1 1/16	
	Reduces To	#6 AWG	1.38		Blue	P24	7	24	1 5/16	
RSC4/0-4-X	Reduces From	4/0 AWG	1.13	3.12	Purple	P54	15	54	1 1/16	
	Reduces To	#4 – 3 AWG STR,#2 AWG SOL	1.38		Gray	P29	8	29	1 5/16	
RSC4/0-1/0-X	Reduces From	4/0 AWG	1.16	3.13	Purple	P54	15	54	1 1/16	
	Reduces To	1/0 AWG	1.63		Pink	P42	12	42	1 9/16	
RSC4/0-2/0-X	Reduces From	4/0 AWG	1.16	2.90	Purple	P54	15	54	1 1/16	
	Reduces To	2/0 AWG	1.50		Black	P45	13	45	1 7/16	
RSC500-X4/0-6	Reduces From	500 kcmil	1.94	3.97	Brown	P87	20	87	1 7/8	
	Reduces To	4/0 Flex	1.50		Yellow	P62	16	62	1 7/16	
RSC500-X350-6	Reduces From	500 kcmil	1.94	4.38	Brown	P87	20	87	1 7/8	
	Reduces To	350 Flex	1.94		Blue	P76	19	76	1 7/8	
RSC750-4/0-6	Reduces From	750 kcmil	2.06	4.66	Black	P106	24	106	2	
	Reduces To	4/0 AWG	1.50		Purple	P54	15	54	1 5/8	
RSC750-X4/0-6	Reduces From	750 kcmil	2.06	4.54	Black	P106	24	106	2	
	Reduces To	4/0 Flex	1.50		Yellow	P62	16	62	1 7/16	
RSC750-X350-6	Reduces From	750 kcmil	2.06	4.45	Black	P106	24	106	2	
	Reduces To	350 Flex	1.94		Blue	P76	19	76	1 7/8	
RSC750-500-6	Reduces From	750 kcmil	2.06	4.45	Black	P106	24	106	2	
	Reduces To	500 kcmil	1.94		Brown	P87	20	87	1 7/8	
RSC750-X500-6	Reduces From	750 kcmil	2.06	4.63	Black	P106	24	106	2	
	Reduces To	500 Flex	2.06		Pink	P99	400	99	2	
RSC750-750-6	Reduces From	750 kcmil	2.06	4.63	Black	P106	24	106	2	
	Reduces To	750 kcmil	2.06		Black	P106	24	106	2	
RSCX750-4/0-3	Reduces From	750 Flex	2.06	5.04	Yellow	P115	115	115	2	
	Reduces To	4/0 AWG	1.50		Purple	P54	15	54	1 5/8	
RSCX750-750-3	Reduces From	750 Flex	2.06	4.50	Yellow	P115	115	115	2	
	Reduces To	750 kcmil	2.06		Black	P106	24	106	2	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Order number of pieces required, in multiples of Standard Package Quantity.

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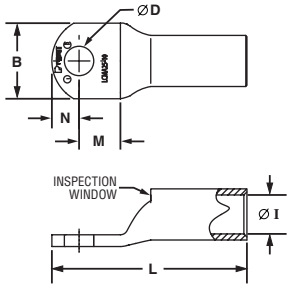
Metric Conductor, One-Hole, Standard Barrel with Window Lug

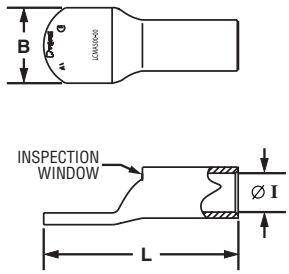
For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

Type LCMA

- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit tools and dies
- Approved for Marine use by American Bureau of Shipping
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 4mm²-240mm² Class 2r wire sizes
- Class 2r, Class 5f and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- CE compliant sizes 4mm²-240mm² Class 2r wire sizes
- Product information marked on connector for selection and installation
- Rounded tongue for use in tight spaces
- Internally beveled wire entry for fast and easy installation







Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f*** (mm²)	Stud Hole Size (mm)	Figure Dimensions (mm)					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA2.5-4-C	2.5	—	M4	2.4	8	5	4	18	100
LCMA6-5-C	4 – 6	4 – 6^	M5	3.8	10	7.8	6.2	27.5	
LCMA6-6-C	4 – 6	4 – 6^	M6	3.8	10.8	7.8	6.2	27.5	
LCMA6-8-C	4 – 6	4 – 6^	M8	3.8	13	8	8	30.5	
LCMA6-10-C	6	4-6^	M10	3.8	15	11	9	34.5	
LCMA10-5-C	10	—	M5	4.5	11	9.8	6	30.8	
LCMA10-6-C	10	—	M6	4.5	11	9.8	6	30.8	
LCMA10-8-C	10	—	M8	4.5	13	8.5	8	30.8	
LCMA10-10-C	10	—	M10	4.4	14.5	8.5	8	30.8	
LCMA10-12-C	10	—	M12	4.36	20	13	10.5	40.5	
LCMA16-5-C	16	10	M5	5.5	13	10.3	6.5	34.5	
LCMA16-6-C	16	10	M6	5.5	13	10.3	6.5	34.5	
LCMA16-8-C	16	10	M8	5.5	13	10.3	6.5	34.5	
LCMA16-10-C	16	10	M10	5.5	15	10.2	8	36.7	
LCMA25-5-C	25	16	M5	6.9	14	10	8	37	
LCMA25-6-C	25	16	M6	6.9	14	10	8	37	
LCMA25-8-C	25	16	M8	6.9	15.5	10	8	37	
LCMA25-10-C	25	16	M10	6.9	15.5	10	8	37	
LCMA35-6-C	35	25	M6	8.2	15.5	12.3	8.5	42	
LCMA35-8-C	35	25	M8	8.2	15.5	12.3	8.5	42	
LCMA35-10-C	35	25	M10	8.2	15.5	12.3	8.5	42	
LCMA35-12-C	35	25	M12	8.2	21.5	14.5	11.5	48	
LCMA50-6-L	50	35	M6	9.8	18	11.5	10	46.5	50
LCMA50-8-L	50	35	M8	9.8	18	11.5	10	46.5	
LCMA50-10-L	50	35	M10	9.8	18	11.5	10	46.5	
LCMA50-12-L	50	35	M12	9.8	23	14	11	50	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
***Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.
^Class 5f conductor only

Continued on next page

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LISTED CERTIFIED CE ABS TYPE APPROVAL PROGRAM

Metric Conductor, One-Hole, Standard Barrel with Window Lug (continued)

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f*** (mm²)	Stud Hole Size (mm)	Figure Dimensions (mm)					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA70-6-L	70	50	M6	11.5	20.8	14.5	11.5	53.5	50
LCMA70-8-L	70	50	M8	11.5	20.8	14.5	11.5	53.5	
LCMA70-10-L	70	50	M10	11.5	20.8	14.5	11.5	53.5	
LCMA70-12-L	70	50	M12	11.5	20.8	14.5	11.5	53.5	
LCMA95-6-L	95	70	M6	13.5	24.5	15	13.5	60.5	
LCMA95-8-L	95	70	M8	13.5	24.5	15	13.5	60.5	
LCMA95-10-L	95	70	M10	13.5	24.5	15	13.5	60.5	
LCMA95-12-L	95	70	M12	13.5	24.5	15	13.5	60.5	
LCMA95-16-L	95	70	M16	13.5	24.5	15	13.5	60.5	
LCMA120-8-L	120	95	M8	15.2	27.5	15.5	14.5	65	
LCMA120-10-L	120	95	M10	15.2	27.5	15.5	14.5	65	
LCMA120-12-L	120	95	M12	15.2	27.5	15.5	14.5	65	
LCMA120-14-L	120	95	M14	15.2	27.5	15.5	14.5	65	
LCMA120-16-L	120	95	M16	15.2	27.5	15.5	14.5	65	
LCMA150-8-X	150	120	M8	16.5	30.5	18	16.5	70.5	10
LCMA150-10-X	150	120	M10	16.5	30.5	18	16.5	70.5	
LCMA150-12-X	150	120	M12	16.5	30.5	18	16.5	70.5	
LCMA150-16-X	150	120	M16	16.5	30.5	18	16.5	70.5	
LCMA150-20-X	150	120	M20	16.5	30.5	22	16.5	74	
LCMA185-8-X	185	150	M8	18.6	33.5	16.5	17.5	72.5	
LCMA185-10-X	185	150	M10	18.6	33.5	16.5	17.5	72.5	
LCMA185-12-X	185	150	M12	18.6	33.5	16.5	17.5	72.5	
LCMA185-16-X	185	150	M16	18.6	33.5	16.5	17.5	72.5	
LCMA185-20-X	185	150	M20	18.6	33.5	21	17.5	77	
LCMA240-10-X	240	185	M10	20.8	37.5	21	19.5	86.5	
LCMA240-12-X	240	185	M12	20.8	37.5	21	19.5	86.5	
LCMA240-16-X	240	185	M16	20.8	37.5	21	19.5	86.5	
LCMA240-20-X	240	185	M20	20.8	37.5	21	19.5	86.5	
LCMA300-10-5	300	240	M10	23.5	42.5	22	20	94.5	5
LCMA300-12-5	300	240	M12	23.5	42.5	22	20	94.5	
LCMA300-16-5	300	240	M16	23.5	42.5	22	20	94.5	
LCMA300-20-5	300	240	M20	23.5	42.5	22	20	94.5	
LCMAX300-10-5	—	300^	M10	26.2	48.0	26.5	23.5	107.0	
LCMAX300-12-5	—	300^	M12	26.2	48.0	26.5	23.5	107.0	
LCMAX300-16-5	—	300^	M16	26.2	48.0	26.5	23.5	107.0	
LCMAX300-20-5	—	300^	M20	26.2	48.0	26.5	23.5	107.0	
LCMA400-12-5	400	—	M12	27	49.5	26.5	23.5	107	
LCMA400-16-5	400	—	M16	27	49.5	26.5	23.5	107	
LCMA400-20-5	400	—	M20	27	49.5	26.5	23.5	107	
LCMA500-12-1	500	—	M12	31	57.5	28.5	25.5	120	1
LCMA500-16-1	500	—	M16	31	57.5	28.5	25.5	120	
LCMA500-20-1	500	—	M20	31	57.5	28.5	25.5	120	
LCMA500-00-1	500	—	Blank	31	57.5	—	—	120	
LCMA630-12-1	630	—	M12	34.5	63	28.5	27.5	132	
LCMA630-16-1	630	—	M16	34.5	63	28.5	27.5	131	
LCMA630-20-1	630	—	M20	34.5	63	28.5	27.5	131	
LCMA630-00-1	630	—	Blank	34.5	63	—	—	131	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
***Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.
^Class 5f conductor only

Order number of pieces required, in multiples of Standard Package Quantity.

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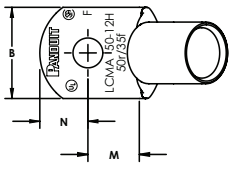
Rigid and Flexible Stranded Metric Conductor, One-Hole, Standard Barrel with Window Lug, 45˚ Angle

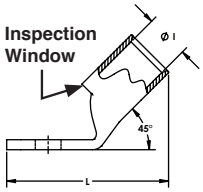
For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

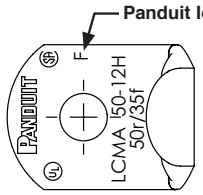
Type LCMA-H

- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit tools and dies
- Approved for Marine use by American Bureau of Shipping
- Class 2r, Class 5f and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Rounded tongue for use in tight spaces
- Internally beveled wire entry for fast and easy installation
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 4mm²-240mm² Class 2r wire sizes
- CE compliant sizes 4mm²-240mm² Class 2r wire sizes









Rigid and Flexible Stranded Conductor Sizes Marked on Part

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA10-5H-C	10	—	M5	4.5	11	9.8	6	27.6	100
LCMA10-6H-C	10	—	M6	4.5	11	9.8	6	27.6	
LCMA10-8H-C	10	—	M8	4.5	13	8.5	8	27.7	
LCMA10-10H-C	10	—	M10	4.4	14.5	8.5	8	28	
LCMA16-5H-C	16	10	M5	5.5	13	10.3	6.5	30.4	
LCMA16-6H-C	16	10	M6	5.5	13	10.3	6.5	30.4	
LCMA16-8H-C	16	10	M8	5.5	13	10.3	6.5	30.3	
LCMA16-10H-C	16	10	M10	5.5	15	10.2	8	32.3	
LCMA25-5H-C	25	16	M5	6.9	14	10	8	31.8	
LCMA25-6H-C	25	16	M6	6.9	14	10	8	31.8	
LCMA25-8H-C	25	16	M8	6.9	15.5	10	8	31.8	
LCMA25-10H-C	25	16	M10	6.9	15.5	10	8	31.7	
LCMA35-6H-C	35	25	M6	8.2	15.5	12.3	8.5	36.7	
LCMA35-8H-C	35	25	M8	8.2	15.5	12.3	8.5	36.7	
LCMA35-10H-C	35	25	M10	8.2	15.5	12.3	8.5	36.7	
LCMA35-12H-C	35	25	M12	8.2	21.5	14.5	11.5	42.1	
LCMA50-6H-L	50	35	M6	9.8	18	11.5	10	40.1	50
LCMA50-8H-L	50	35	M8	9.8	18	11.5	10	40.1	
LCMA50-10H-L	50	35	M10	9.8	18	11.5	10	40.1	
LCMA50-12H-L	50	35	M12	9.8	23	14	11	43.1	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Continued on next page

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LISTED CERTIFIED CE ABS TYPE APPROVAL PROGRAM

Rigid and Flexible Stranded Metric Conductor, One-Hole, Standard Barrel with Window Lug, 45° Angle (continued)

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA70-6H-L	70	50	M6	11.5	20.8	14.5	11.5	46.8	50
LCMA70-8H-L	70	50	M8	11.5	20.8	14.5	11.5	46.8	
LCMA70-10H-L	70	50	M10	11.5	20.8	14.5	11.5	46.8	
LCMA70-12H-L	70	50	M12	11.5	20.8	14.5	11.5	46.7	
LCMA95-6H-L	95	70	M6	13.5	24.5	15	13.5	52.6	
LCMA95-8H-L	95	70	M8	13.5	24.5	15	13.5	52.6	
LCMA95-10H-L	95	70	M10	13.5	24.5	15	13.5	52.6	
LCMA95-12H-L	95	70	M12	13.5	24.5	15	13.5	52.6	
LCMA95-16H-L	95	70	M16	13.5	24.5	15	13.5	52.5	
LCMA120-8H-L	120	95	M8	15.2	27.5	15.5	14.5	56.6	
LCMA120-10H-L	120	95	M10	15.2	27.5	15.5	14.5	56.6	
LCMA120-12H-L	120	95	M12	15.2	27.5	15.5	14.5	56.6	
LCMA120-16H-L	120	95	M16	15.2	27.5	15.5	14.5	56.6	
LCMA150-8H-X	150	120	M8	16.5	30.5	18	16.5	64.7	10
LCMA150-10H-X	150	120	M10	16.5	30.5	18	16.5	64.7	
LCMA150-12H-X	150	120	M12	16.5	30.5	18	16.5	64.7	
LCMA150-16H-X	150	120	M16	16.5	30.5	18	16.5	64.6	
LCMA150-20H-X	150	120	M20	16.5	30.5	22	16.5	68.3	
LCMA185-8H-X	185	150	M8	18.6	33.5	16.5	17.5	66	
LCMA185-10H-X	185	150	M10	18.6	33.5	16.5	17.5	66	
LCMA185-12H-X	185	150	M12	18.6	33.5	16.5	17.5	66	
LCMA185-16H-X	185	150	M16	18.6	33.5	16.5	17.5	66	
LCMA185-20H-X	185	150	M20	18.6	33.5	21	17.5	70.5	
LCMA240-10H-X	240	185	M10	20.8	37.5	21	19.5	79.3	
LCMA240-12H-X	240	185	M12	20.8	37.5	21	19.5	79.3	
LCMA240-16H-X	240	185	M16	20.8	37.5	21	19.5	79.3	
LCMA240-20H-X	240	185	M20	20.8	37.5	21	19.5	79.3	
LCMA300-10H-5	300	240	M10	23.5	42.5	22	20	85.5	5
LCMA300-12H-5	300	240	M12	23.5	42.5	22	20	82.5	
LCMA300-16H-5	300	240	M16	23.5	42.5	22	20	85.5	
LCMA300-20H-5	300	240	M20	23.5	42.5	22	20	85.4	
LCMAX300-10H-5^	–	300*	M10	26.2	48	26.5	23.5	98.4	
LCMAX300-12H-5^	–	300*	M12	26.2	48	26.5	23.5	98.4	
LCMAX300-16H-5^	–	300*	M16	26.2	48	26.5	23.5	98.4	
LCMAX300-20H-5^	–	300*	M20	26.2	48	26.5	23.5	98.4	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Order number of pieces required, in multiples of Standard Package Quantity.

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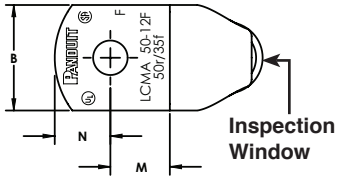
Rigid and Flexible Stranded Metric Conductor, One-Hole, Standard Barrel with Window Lug, 90˚ Angle

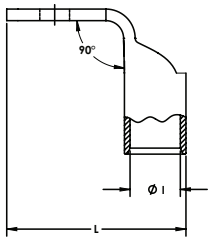
For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

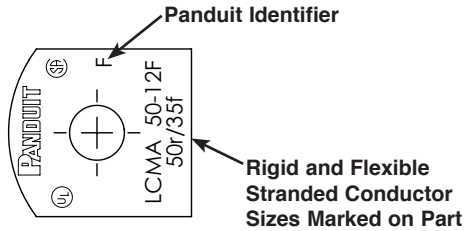
Type LCMA-F

- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit tools and dies
- Approved for Marine use by American Bureau of Shipping
- Class 2r, Class 5f and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Rounded tongue for use in tight spaces
- Internally beveled wire entry for fast and easy installation
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 4mm²-240mm² Class 2r wire sizes
- CE compliant sizes 4mm²-240mm² Class 2r wire sizes









Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA10-5F-C	10	–	M5	4.5	11	9.8	6	24.5	100
LCMA10-6F-C	10	–	M6	4.5	11	9.8	6	24.5	
LCMA10-8F-C	10	–	M8	4.5	13	8.5	8	25.2	
LCMA10-10F-C	10	–	M10	4.4	14.5	8.5	8	26.2	
LCMA16-5F-C	16	10	M5	5.5	13	10.3	6.5	26.5	
LCMA16-6F-C	16	10	M6	5.5	13	10.3	6.5	26.5	
LCMA16-8F-C	16	10	M8	5.5	13	10.3	6.5	26.5	
LCMA16-10F-C	16	10	M10	5.5	15	10.2	8	27.9	
LCMA25-5F-C	25	16	M5	6.9	14	10	8	29.9	
LCMA25-6F-C	25	16	M6	6.9	14	10	8	29.9	
LCMA25-8F-C	25	16	M8	6.9	15.5	10	8	29.3	
LCMA25-10F-C	25	16	M10	6.9	15.5	10	8	29.9	
LCMA35-6F-C	35	25	M6	8.2	15.5	12.3	8.5	34.7	
LCMA35-8F-C	35	25	M8	8.2	15.5	12.3	8.5	34.7	
LCMA35-10F-C	35	25	M10	8.2	15.5	12.3	8.5	34.7	
LCMA35-12F-C	35	25	M12	8.2	21.5	14.5	11.5	40	
LCMA50-6F-L	50	35	M6	9.8	18	11.5	10	38.4	50
LCMA50-8F-L	50	35	M8	9.8	18	11.5	10	38.4	
LCMA50-10F-L	50	35	M10	9.8	18	11.5	10	38.4	
LCMA50-12F-L	50	35	M12	9.8	23	14	11	41.9	
LCMA70-6F-L	70	50	M6	11.5	20.8	14.5	11.5	42.3	
LCMA70-8F-L	70	50	M8	11.5	20.8	14.5	11.5	42.3	
LCMA70-10F-L	70	50	M10	11.5	20.8	14.5	11.5	42.3	
LCMA70-12F-L	70	50	M12	11.5	20.8	14.5	11.5	42.3	
LCMA95-6F-L	95	70	M6	13.5	24.5	15	13.5	50.1	
LCMA95-8F-L	95	70	M8	13.5	24.5	15	13.5	50.1	
LCMA95-10F-L	95	70	M10	13.5	24.5	15	13.5	50.1	
LCMA95-12F-L	95	70	M12	13.5	24.5	15	13.5	50.1	
LCMA95-16F-L	95	70	M16	13.5	24.5	15	13.5	50.1	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Continued on next page

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Rigid and Flexible Stranded Metric Conductor, One-Hole, Standard Barrel with Window Lug, 90° Angle (continued)

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMA120-8F-L	120	95	M8	15.2	27.5	15.5	14.5	54.2	50
LCMA120-10F-L	120	95	M10	15.2	27.5	15.5	14.5	54.2	
LCMA120-12F-L	120	95	M12	15.2	27.5	15.5	14.5	54.2	
LCMA120-16F-L	120	95	M16	15.2	27.5	15.5	14.5	54.2	
LCMA150-8F-X	150	120	M8	16.5	30.5	18	16.5	60.5	10
LCMA150-10F-X	150	120	M10	16.5	30.5	18	16.5	60.5	
LCMA150-12F-X	150	120	M12	16.5	30.5	18	16.5	60.5	
LCMA150-16F-X	150	120	M16	16.5	30.5	18	16.5	60.5	
LCMA150-20F-X	150	120	M20	16.5	30.5	22	16.5	64.5	
LCMA185-8F-X	185	150	M8	18.6	33.5	16.5	17.5	62	
LCMA185-10F-X	185	150	M10	18.6	33.5	16.5	17.5	62	
LCMA185-12F-X	185	150	M12	18.6	33.5	16.5	17.5	62	
LCMA185-16F-X	185	150	M16	18.6	33.5	18.5	17.5	64	
LCMA185-20F-X	185	150	M20	18.6	33.5	21	17.5	66.5	
LCMA240-10F-X	240	185	M10	20.8	37.5	21	19.5	71.5	
LCMA240-12F-X	240	185	M12	20.8	37.5	21	19.5	71.5	
LCMA240-16F-X	240	185	M16	20.8	37.5	21	19.5	71.5	
LCMA240-20F-X	240	185	M20	20.8	37.5	21	19.5	71.5	
LCMA300-10F-5	300	240	M10	23.5	42.5	22	20	77.3	5
LCMA300-12F-5	300	240	M12	23.5	42.5	22	20	77.3	
LCMA300-16F-5	300	240	M16	23.5	42.5	22	20	77.3	
LCMA300-20F-5	300	240	M20	23.5	42.5	22	20	77.3	
LCMAX300-10F-5^	–	300*	M10	26.2	48	26.5	23.5	88	
LCMAX300-12F-5^	–	300*	M12	26.2	48	26.5	23.5	88	
LCMAX300-16F-5^	–	300*	M16	26.2	48	26.5	23.5	88	
LCMAX300-20F-5^	–	300*	M20	26.2	48	26.5	23.5	88	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Order number of pieces required, in multiples of Standard Package Quantity.

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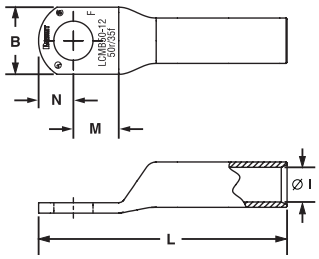
Rigid and Flexible Stranded Metric Conductor, One-Hole, Long Barrel Lug, No Window

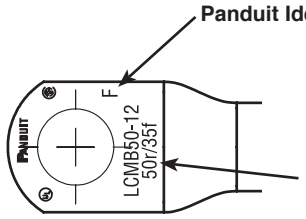
For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

Type LCMB

- Long barrel design to maximize number of crimps
- No inspection window to prevent contaminents from entering barrel
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit® tools and dies
- Approved for Marine use by American Bureau of Shipping
- Class 2r, Class 5f and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Rounded tongue for use in tight spaces
- Internally beveled wire entry for fast and easy installation
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 4mm²-240mm² Class 2r wire sizes
- CE compliant sizes 10mm²-240mm² Class 2r wire sizes







Rigid and Flexible Stranded Conductor Sizes Marked on Part

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMB10-5-L	10	—	M5	4.5	11	9.8	6	43.8	50
LCMB10-6-L	10	—	M6	4.5	11	9.8	6	43.8	
LCMB10-8-L	10	—	M8	4.5	13	8.5	8	43.8	
LCMB10-10-L	10	—	M10	4.4	14.5	8.5	8	43.8	
LCMB16-5-L	16	10	M5	5.5	13	10.3	6.5	47.2	
LCMB16-6-L	16	10	M6	5.5	13	10.3	6.5	47.2	
LCMB16-8-L	16	10	M8	5.5	13	10.3	6.5	47.2	
LCMB16-10-L	16	10	M10	5.5	15	10.2	8	49.4	
LCMB25-5-L	25	16	M5	6.9	14	10	8	48.7	
LCMB25-6-L	25	16	M6	6.9	14	10	8	48.7	
LCMB25-8-L	25	16	M8	6.9	15.5	10	8	48.7	
LCMB25-10-L	25	16	M10	6.9	15.5	10	8	48.7	
LCMB35-6-Q	35	25	M6	8.2	15.5	12.3	8.5	57.3	25
LCMB35-8-Q	35	25	M8	8.2	15.5	12.3	8.5	57.3	
LCMB35-10-Q	35	25	M10	8.2	15.5	12.3	8.5	57.3	
LCMB35-12-Q	35	25	M12	8.2	21.5	14.5	11.5	63.3	
LCMB50-6-E	50	35	M6	9.8	18	11.5	10	62.8	20
LCMB50-8-E	50	35	M8	9.8	18	11.5	10	62.8	
LCMB50-10-E	50	35	M10	9.8	18	11.5	10	62.8	
LCMB50-12-E	50	35	M12	9.8	23	14	11	66.3	
LCMB70-8-X	70	50	M8	11.5	20.8	14.5	11.5	68.2	10
LCMB70-10-X	70	50	M10	11.5	20.8	14.5	11.5	68.2	
LCMB70-12-X	70	50	M12	11.5	20.8	14.5	11.5	68.2	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Continued on next page

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LISTED CERTIFIED

Rigid and Flexible Stranded Metric Conductor, One-Hole, Long Barrel Lug, No Window (continued)

Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f^ (mm²)	Stud Hole Size (mm)	Figure Dimensions					Std. Pkg. Qty.
				ØI	B	M	N	L	
LCMB95-6-L	95	70	M6	13.5	24.5	15	13.5	79	50
LCMB95-6-X	95	70	M6	13.5	24.5	15	13.5	79	10
LCMB95-8-X	95	70	M8	13.5	24.5	15	13.5	79	
LCMB95-10-X	95	70	M10	13.5	24.5	15	13.5	79	
LCMB95-12-X	95	70	M12	13.5	24.5	15	13.5	79	
LCMB95-16-X	95	70	M16	13.5	24.5	15	13.5	79	
LCMB120-8-X	120	95	M8	15.2	27.5	15.5	14.5	80.2	
LCMB120-10-X	120	95	M10	15.2	27.5	15.5	14.5	80.2	
LCMB120-12-X	120	95	M12	15.2	27.5	15.5	14.5	80.2	
LCMB120-16-X	120	95	M16	15.2	27.5	15.5	14.5	80.2	
LCMB150-8-X	150	120	M8	16.5	30.5	18	16.5	100	
LCMB150-10-X	150	120	M10	16.5	30.5	18	16.5	100	
LCMB150-12-X	150	120	M12	16.5	30.5	18	16.5	100	
LCMB150-16-X	150	120	M16	16.5	30.5	18	16.5	100	
LCMB150-20-X	150	120	M20	16.5	30.5	22	16.5	103.5	
LCMB185-10-X	185	150	M10	18.6	33.5	16.5	17.5	100.6	
LCMB185-12-X	185	150	M12	18.6	33.5	16.5	17.5	100.6	
LCMB185-16-X	185	150	M16	18.6	33.5	16.5	17.5	100.6	
LCMB185-20-X	185	150	M20	18.6	33.5	21	17.5	105.1	
LCMB240-10-6	240	185	M10	20.8	37.5	21	19.5	115	6
LCMB240-12-6	240	185	M12	20.8	37.5	21	19.5	115	
LCMB240-16-6	240	185	M16	20.8	37.5	21	19.5	115	
LCMB240-20-6	240	185	M20	20.8	37.5	21	19.5	115	
LCMB300-10-6	300	240	M10	23.5	42.5	22	20	122.6	
LCMB300-12-6	300	240	M12	23.5	42.5	22	20	122.6	
LCMB300-16-6	300	240	M16	23.5	42.5	22	20	122.6	
LCMB300-20-6	300	240	M20	23.5	42.5	22	20	122.6	
LCMBX300-10-6^	—	300*	M10	26.2	48	26.5	23.5	135.2	
LCMBX300-12-6^	—	300*	M12	26.2	48	26.5	23.5	135.2	
LCMBX300-16-6^	—	300*	M16	26.2	48	26.5	23.5	135.2	
LCMBX300-20-6^	—	300*	M20	26.2	48	26.5	23.5	135.2	
LCMB400-12-6	400	—	M12	27	49.5	26.5	23.5	127.4	
LCMB400-16-6	400	—	M16	27	49.5	26.5	23.5	127.4	
LCMB400-20-6	400	—	M20	27	49.5	26.5	23.5	127.4	
LCMB500-12-3	500	—	M12	31	57.5	28.5	25.5	149.7	3
LCMB500-16-3	500	—	M16	31	57.5	28.5	25.5	149.7	
LCMB500-20-3	500	—	M20	31	57.5	28.5	25.5	149.7	
LCMB630-16-3	630	—	M16	34.5	63	28.5	27.5	159.1	
LCMB630-20-3	630	—	M20	34.5	63	28.5	27.5	159.1	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Metric Conductor, Two-Hole, Standard Barrel with Window Lug

For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

Type LCMD

- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit® tools and dies
- Class 2r, Class 5f and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Internally beveled wire entry for fast and easy installation
- Approved for Marine use by American Bureau of Shipping
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 4mm²-630mm² Class 2r wire sizes
- CE compliant sizes 4mm²-630mm² Class 2r wire sizes



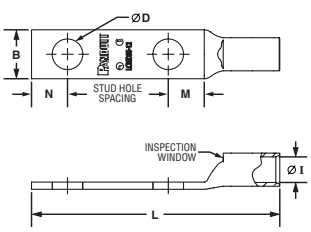


Figure 1

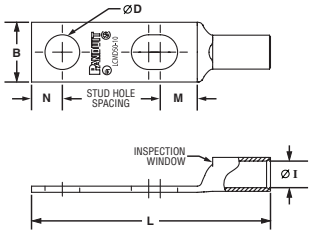


Figure 2

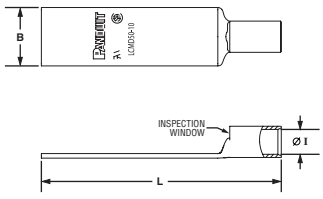


Figure 3

Part Number	Figure No.	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f*** (mm²)	Stud Hole Size (mm)	Stud Hole Spacing (mm)	Figure Dimensions (mm)						Std. Pkg. Qty.
						ØI	B	M	N	L	ØD	
LCMD6-5CD-Q	2	4 – 6	4-6^	M5	22.0 – 25.0	3.8	10	7.8	6.2	52.5	5.5	25
LCMD10-6CD-Q	2	10	—	M6	22.0 – 25.0	4.5	11	9.8	6	55.8	6.6	
LCMD10-8-Q	1	10	—	M8	44.5	4.5	13	8.5	8	75.3	9.0	
LCMD10-00-Q	3	10	—	Blank	—	4.4	14.5	—	—	75.3	—	
LCMD16-6CD-Q	2	16	10	M6	22.0 – 25.0	5.5	13	10.3	6.5	59.5	6.6	
LCMD16-8-Q	1	16	10	M8	44.5	5.5	13	10.3	6.5	79	9.0	
LCMD16-12-Q	1	16	10	M12	—	—	—	—	—	—	—	
LCMD16-00-Q	3	16	10	Blank	—	5.5	15	—	—	81.2	—	
LCMD25-8CD-Q	2	25	16	M8	22.0 – 25.0	6.9	15.5	10	8	62	9.0	
LCMD25-8-Q	1	25	16	M8	44.5	6.9	15.5	10	8	81.5	9.0	
LCMD25-10-Q	1	25	16	M10	44.5	6.9	15.5	10	8	81.5	11.0	
LCMD25-12-Q	1	25	16	M12	44.5	7.1	20	14.5	11.5	89.5	14.0	
LCMD25-00-Q	3	25	16	Blank	—	7.1	20	—	—	89.5	—	
LCMD35-8CD-Q	2	35	25	M8	22.0 – 25.0	8.2	15.5	12.3	8.5	67	9.0	
LCMD35-8-Q	1	35	25	M8	44.5	8.2	15.5	12.3	8.5	86.5	—	
LCMD35-10-Q	1	35	25	M10	44.5	8.2	15.5	12.3	8.5	86.5	11.0	
LCMD35-12-Q	1	35	25	M12	44.5	8.2	21.5	14.5	11.5	92.5	14.0	
LCMD35-00-Q	3	35	25	Blank	—	8.2	21.5	—	—	92.5	—	
LCMD35-1040-Q	1	35	25	M10	40	8.2	15.5	12.3	8.5	85.8	—	
LCMD50-8CD-Q	2	50	35	M8	25	9.8	18	11.5	10	71.5	—	
LCMD50-10CD-X	2	50	35	M10	22.0 – 25.0	9.8	18	11.5	10	71.5	11.0	10
LCMD50-10-X	1	50	35	M10	44.5	9.8	18	11.5	10	91	11.0	
LCMD50-12-X	1	50	35	M12	44.5	9.8	23	14	11	94.5	14.0	
LCMD50-00-X	3	50	35	Blank	—	9.8	23	—	—	94.5	—	
LCMD70-10CD-X	2	70	50	M10	22.0 – 25.0	11.5	20.5	14.5	11	78.5	11.0	
LCMD70-10-X	1	70	50	M10	44.5	11.5	20.8	14.5	11.5	98	11.0	
LCMD70-12-X	1	70	50	M12	44.5	11.5	20.8	14.5	11.5	98	14.0	
LCMD70-00-X	3	70	50	Blank	—	11.5	20.8	—	—	98	—	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
***Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.
^Class 5f conductor only

Continued on next page

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LISTED CERTIFIED CE ABS

Metric Conductor, Two-Hole, Standard Barrel with Window Lug (continued)

Part Number	Figure No.	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f*** (mm²)	Stud Hole Size (mm)	Stud Hole Spacing (mm)	Figure Dimensions (mm) ØI	B	M	N	L	ØD	Std. Pkg. Qty.
LCMD70-1040-X	1	70	50	M10	40	11.5	20.8	14.5	11.5	100.3	—	10
LCMD70-1240-X	1	70	50	M12	40	11.5	20.8	14.5	11.5	100.3	—	
LCMD95-10CD-X	2	95	70	M10	22.0 – 25.0	13.5	24.5	15	13	85.5	11.0	
LCMD95-10-X	1	95	70	M10	44.5	13.5	24.5	15	13.5	105	—	
LCMD95-12-X	1	95	70	M12	44.5	13.5	24.5	15	13.5	105	14.0	
LCMD95-14-X	1	95	70	M14	44.5	13.5	24.5	15	13.5	105	16.0	
LCMD95-00-X	3	95	70	Blank	—	13.5	24.5	—	—	105	—	
LCMD120-10CD-X	2	120	95	M10	22.0 – 25.0	15.2	27.5	15.5	14	90	11.0	
LCMD120-12-X	1	120	95	M12	44.5	15.2	27.5	15.5	14.5	109.5	14.0	
LCMD120-14-X	1	120	95	M14	44.5	15.2	27.5	15.5	14.5	109.5	16.0	
LCMD120-00-X	3	120	95	Blank	—	15.2	27.5	—	—	109.5	—	
LCMD120-1240-X	1	120	95	M12	40	15.2	27.5	15.5	14.5	111.5	—	
LCMD150-10CD-X	2	150	120	M10	22.0 – 25.0	16.5	30.5	18	16	95.5	11.0	
LCMD150-12-X	1	150	120	M12	44.5	16.5	30.5	18	16.5	115	14.0	
LCMD150-14-X	1	150	120	M14	44.5	16.5	30.5	22	16.5	118.5	16.0	
LCMD150-00-X	3	150	120	Blank	—	16.5	30.5	—	—	118.5	—	
LCMD185-10CD-X	2	185	150	M10	22.0 – 25.0	18.6	33.5	16.5	17	97.5	11.0	
LCMD185-12-X	1	185	150	M12	44.5	18.6	33.5	16.5	17.5	117	14.0	
LCMD185-14-X	1	185	150	M14	44.5	18.6	33.5	21	17.5	121.5	16.0	
LCMD185-00-X	3	185	150	Blank	—	18.6	33.5	—	—	121.5	—	
LCMD240-10CD-5	2	240	185	M10	22.0 – 25.0	20.8	37.5	21	19	111.5	11.0	5
LCMD240-12-5	1	240	185	M12	44.5	20.8	37.5	21	19.5	131	14.0	
LCMD240-14-5	1	240	185	M14	44.5	20.8	37.5	21	19.5	131	16.0	
LCMD240-00-5	3	240	185	Blank	—	20.8	37.5	—	—	131	—	
LCMD300-10CD-5	2	300	240	M10	25	23.5	42.5	22	20	119.5	—	
LCMD300-12-5	1	300	240	M12	44.5	23.5	42.5	22	20	139	14.0	
LCMD300-14-5	1	300	240	M14	44.5	23.5	42.5	22	20	139	16.0	
LCMD300-00-5	3	300	240	Blank	—	23.5	42.5	—	—	139	—	
LCMDX300-12-5	1	—	300^	M12	44.5	26.2	48	26.5	23.5	151.5	14.0	
LCMDX300-14-5	1	—	300^	M14	44.5	26.2	48	26.5	23.5	151.5	16.0	
LCMDX300-00-5	3	—	300^	Blank	—	26.2	48	—	—	151.5	—	
LCMD400-12-5	1	400	—	M12	44.5	27	49.5	26.5	23.5	151.5	14.0	
LCMD400-14-5	1	400	—	M14	44.5	27	49.5	26.5	23.5	151.5	16.0	
LCMD400-16-5	1	400	—	M16	44.5	27	49.5	26.5	23.5	151.5	18.0	
LCMD400-00-5	3	400	—	Blank	—	27	49.5	—	—	151.5	—	
LCMD500-12-1	1	500	—	M12	44.5	31	57.5	28.5	25.5	164.5	14.0	1
LCMD500-14-1	1	500	—	M14	44.5	31	57.5	28.5	25.5	164.5	16.0	
LCMD500-16-1	1	500	—	M16	44.5	31	57.5	28.5	25.5	164.5	18.0	
LCMD500-00-1	3	500	—	Blank	—	31	57.5	—	—	164.5	—	
LCMD630-12-1	1	630	—	M12	44.5	34.5	63	28.5	27.5	175.5	14.0	
LCMD630-14-1	1	630	—	M14	44.5	34.5	63	28.5	27.5	175.5	16.0	
LCMD630-16-1	1	630	—	M16	44.5	34.5	63	28.5	27.5	175.5	18.0	
LCMD630-00-1	3	630	—	Blank	—	34.5	63	—	—	175.5	—	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
***Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.
^Class 5f conductor only

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Rigid and Flexible Stranded Metric Conductor, Two-Hole, Long Barrel Lug, No Window

For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

Type LCMC

- Long barrel design to maximize number of crimps
- No inspection window to prevent contaminents from entering barrel
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit® tools and dies
- Approved for Marine use by American Bureau of Shipping
- Class 2r, Class 5f, and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Internally beveled wire entry for fast and easy installation
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 10mm²-630mm² Class 2r wire sizes
- CE compliant sizes 10mm²-630mm² Class 2r wire sizes



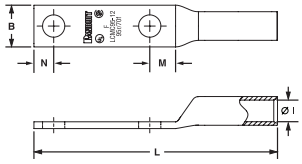


Figure 1.
Two-Hole

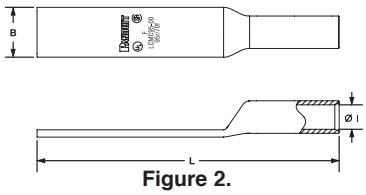
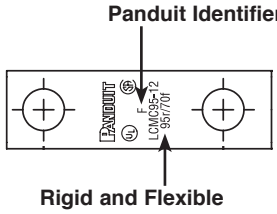


Figure 2.
Blank Tongue



Rigid and Flexible Stranded Conductor Sizes Marked on Part

Part Number	Figure No.	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size Class 5f/6f^ (mm²)	Stud Hole Size (mm)	Stud Hold Spacing (mm)	Figure Dimensions (mm)					Std. Pkg. Qty.
						ØI	B	M	N	L	
LCMC10-00-L	2	10	—	Blank	—	4.4	14.5	—	—	87.8	50
LCMC10-8-L	1	10	—	M8	44.5	4.5	13	8.5	8	87.8	
LCMC16-00-L	2	16	10	Blank	—	5.5	15	—	—	93.9	
LCMC16-8-L	1	16	10	M8	44.5	5.5	13	10.3	6.5	91.7	
LCMC25-00-L	2	25	16	Blank	—	7.1	20	—	—	101.2	
LCMC25-5-L	1	25	16	M5	44.5	6.9	15.5	10	8	93.2	
LCMC25-8-L	1	25	16	M8	44.5	6.9	15.5	10	8	93.2	
LCMC25-10-L	1	25	16	M10	44.5	6.9	15.5	10	8	93.2	
LCMC25-12-L	1	25	16	M12	44.5	7.1	20	14.5	11.5	101.2	
LCMC35-00-Q	2	35	25	Blank	—	8.2	21.5	—	—	107.8	25
LCMC35-8-Q	1	35	25	M8	44.5	8.2	15.5	12.3	8.5	101.8	
LCMC35-10-Q	1	35	25	M10	44.5	8.2	15.5	12.3	8.5	101.8	
LCMC35-12-Q	1	35	25	M12	44.5	8.2	21.5	14.5	11.5	107.8	
LCMC50-00-E	2	50	35	Blank	—	9.8	23	—	—	110.8	20
LCMC50-10-E	1	50	35	M10	44.5	9.8	18	11.5	10	107.3	
LCMC50-12-E	1	50	35	M12	44.5	9.8	23	14	11	110.8	
LCMC70-00-X	2	70	50	Blank	—	11.5	20.8	—	—	112.7	10
LCMC70-10-X	1	70	50	M10	44.5	11.5	20.8	14.5	11.5	112.7	
LCMC70-12-X	1	70	50	M12	44.5	11.5	20.8	14.5	11.5	112.7	
LCMC95-00-X	2	95	70	Blank	—	13.5	24.5	—	—	123.5	
LCMC95-6-L	1	95	70	M6	44.5	13.5	24.5	15	13.5	123.5	50
LCMC95-6-X	1	95	70	M6	44.5	13.5	24.5	15	13.5	123.5	10
LCMC95-10-X	1	95	70	M10	44.5	13.5	24.5	15	13.5	123.5	
LCMC95-12-X	1	95	70	M12	44.5	13.5	24.5	15	13.5	123.5	
LCMC95-14-X	1	95	70	M14	44.5	13.5	24.5	15	13.5	123.5	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-1:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Continued on next page

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Rigid and Flexible Stranded Metric Conductor, Two-Hole, Long Barrel Lug, No Window (continued)

Part Number	Figure No.	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size Class 5f/6f^ (mm²)	Stud Hole Size (mm)	Stud Hold Spacing (mm)	Figure Dimensions (mm)					Std. Pkg. Qty.
						ØI	B	M	N	L	
LCMC120-00-X	2	120	95	Blank	—	15.2	27.5	—	—	124.7	10
LCMC120-12-X	1	120	95	M12	44.5	15.2	27.5	15.5	14.5	124.7	
LCMC120-14-X	1	120	95	M14	44.5	15.2	27.5	15.5	14.5	124.7	
LCMC150-00-X	2	150	120	Blank	—	16.5	30.5	—	—	148	
LCMC150-12-X	1	150	120	M12	44.5	16.5	30.5	18	16.5	144.5	
LCMC150-14-X	1	150	120	M14	44.5	16.5	30.5	22	16.5	148	
LCMC185-00-X	2	185	150	Blank	—	18.6	33.5	—	—	149.6	
LCMC185-8-X	1	185	150	M8	44.5	18.6	33.5	16.5	17.5	145.1	
LCMC185-12-X	1	185	150	M12	44.5	18.6	33.5	16.5	17.5	145.1	
LCMC185-14-X	1	185	150	M14	44.5	18.6	33.5	21	17.5	149.6	
LCMCX300-14-6^	1	—	300*	M14	44.5	26.2	48	26.5	23.5	179.7	6
LCMC400-00-6	2	400	—	Blank	—	27	49.5	—	—	171.9	
LCMC400-12-6	1	400	—	M12	44.5	27	49.5	26.5	23.5	171.9	
LCMC400-14-6	1	400	—	M14	44.5	27	49.5	26.5	23.5	171.9	
LCMC400-16-6	1	400	—	M16	44.5	27	49.5	26.5	23.5	171.9	
LCMC500-00-3	2	500	—	Blank	—	31	57.5	—	—	194.2	3
LCMC500-12-3	1	500	—	M12	44.5	31	57.5	28.5	25.5	194.2	
LCMC500-14-3	1	500	—	M14	44.5	31	57.5	28.5	25.5	194.2	
LCMC500-16-3	1	500	—	M16	44.5	31	57.5	28.5	25.5	194.2	
LCMC630-00-3	2	630	—	Blank	—	34.5	63	—	—	203.6	
LCMC630-12-3	1	630	—	M12	44.5	34.5	63	28.5	27.5	203.6	
LCMC630-14-3	1	630	—	M14	44.5	34.5	63	28.5	27.5	203.6	
LCMC630-16-3	1	630	—	M16	44.5	34.5	63	28.5	27.5	203.6	
LCMC240-00-6	2	240	185	Blank	—	20.8	37.5	—	—	159.5	6
LCMC240-12-6	1	240	185	M12	44.5	20.8	37.5	21	19.5	159.5	
LCMC240-14-6	1	240	185	M14	44.5	20.8	37.5	21	19.5	159.5	
LCMC300-00-6	2	300	240	Blank	—	23.5	42.5	—	—	167.1	
LCMC300-12-6	1	300	240	M12	44.5	23.5	42.5	22	20	167.1	
LCMC300-14-6	1	300	240	M14	44.5	23.5	42.5	22	20	167.1	
LCMCX300-00-6^	2	—	300*	Blank	—	26.2	48	—	—	179.7	
LCMCX300-12-6^	1	—	300*	M12	44.5	26.2	48	26.5	23.5	179.7	

Visit www.panduit.com/tools for tool and die information.
*Class 5f conductor only.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Not CE compliant and not tested to EN 61238-1:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.

Order number of pieces required, in multiples of Standard Package Quantity.

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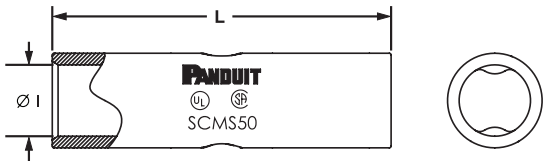
Metric Conductor, Standard Barrel, Butt Splice

For Use with Class 2R Rigid Strand and Flexible Strand Class 5F and 6F Copper Conductors

Type SCMS

- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit tools and dies
- Internal wire stop barrel of splice
- Class 2r, Class 5f, and Class 6f wire sizes and stud hole size marked on connector for selection and installation
- Internally beveled wire entry for fast and easy installation
- Approved for Marine use by American Bureau of Shipping
- Meets EN61238-1:2003/IEC 61238-1-2003 Class B for 10mm²-630mm² Class 2r wire sizes
- CE compliant with 10mm²-630mm² Class 2r wire sizes





Part Number	Copper Conductor Size Class 2r (mm²)	Copper Conductor Size class 5f/6f***(mm²)	Figure Dimensions (mm)		Std. Pkg. Qty.
			ØI	L	
SCMS10-C	10	—	4.5	30	100
SCMS16-C	16	10	5.5	35	
SCMS25-L	25	16	6.9	36	50
SCMS35-L	35	25	8.2	36	
SCMS50-L	50	35	9.8	49	
SCMS70-L	70	50	11.5	52	
SCMS95-Q	95	70	13.5	54	25
SCMS120-Q	120	95	15.2	57	
SCMS150-X	150	120	16.5	57	10
SCMS185-X	185	150	18.6	61	
SCMS240-X	240	185	20.8	72	
SCMS300-5	300	240	23.5	75	5
SCMSX300-5	—	300^	26.2	95	
SCMS400-5	400	—	27	95	
SCMS500-6	500	—	31	96	6
SCMS630-6	630	—	34.5	131	

Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
***Not CE compliant and not tested to EN 61238-:2003/IEC 61238-1:2003 for terminations with metric Class 5f or Class 6f flexible stranded conductor.
^Class 5f conductor only

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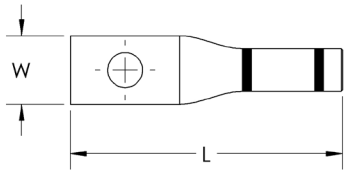
Code Conductor, One-Hole, Aluminum Lug

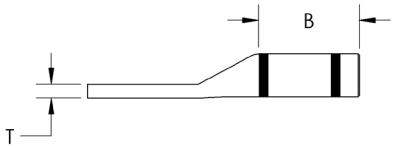
For Use with Stranded Aluminum or Copper Code Conductors

Type LAA

- Manufactured from high conductivity thick wall wrought aluminum
- Factory pre-filled with joint compound and sealed with easy pull-out end plug to inhibit corrosion
- Color-coded barrels and Panduit and specified competitor die index numbers marked on barrel for proper crimp die selection
- Enclosed barrel prevents corrosive material from entering barrel when used in harsh environments
- Tin-plated to inhibit corrosion
- cULus listed Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies







Part Number	Aluminum or Copper Conductor Size	Stud Hole Size (in.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (in.)	Std. Pkg. Qty.
LAA6-14-X	6	1/4	0.55	0.86	0.11	2.2	Gray	P29	346	29	1	10
LAA6-56-X	6	5/16	0.55	1	0.11	2.2						
LAA4-14-X	4	1/4	0.66	1.05	0.19	2.05	Green	P37	375	37	1 1/16	
LAA4-56-X	4	5/16	0.69	1.08	0.16	2.23						
LAA4-38-X	4	3/8	0.69	0.92	0.16	2.33						
LAA2-14-X	2	1/4	0.75	0.98	0.17	2.63	Pink	P42	348	42	1	
LAA2-56-X	2	5/16	0.75	0.98	0.17	2.63						
LAA2-38-X	2	3/8	0.75	0.98	0.17	2.63						
LAA1-14-X	1	1/4	0.75	0.98	0.17	2.63	Gold	P45	471	45	1	
LAA1-56-X	1	5/16	0.75	0.98	0.17	2.63						
LAA1-38-X	1	3/8	0.75	0.98	0.17	2.63						
LAA1/0-56-5	1/0	5/16	0.88	1.3	0.25	3.23	Tan	P50	296	50	1 9/16	5
LAA1/0-38-5	1/0	3/8	0.88	1.3	0.25	3.23						
LAA1/0-12-5	1/0	1/2	0.88	1.3	0.25	3.23						
LAA2/0-38-5	2/0	3/8	0.95	1.31	0.23	3.19	Olive	P54	297	54	1 9/16	
LAA2/0-12-5	2/0	1/2	0.95	1.3	0.23	3.19						
LAA3/0-38-5	3/0	3/8	1.07	1.5	0.25	3.44	Ruby	P60	467	60	1 9/16	
LAA3/0-12-5	3/0	1/2	1.07	1.5	0.25	3.44						
LAA4/0-38-5	4/0	3/8	1.19	1.44	0.32	3.56	White	P66	298	66	1 3/4	
LAA4/0-12-5	4/0	1/2	1.19	1.44	0.32	3.56						
LAA250-38-5	250 kcmil	3/8	1.24	1.56	0.3	3.63	Red	P71	324	71	1 9/16	
LAA250-12-5	250 kcmil	1/2	1.24	1.56	0.3	3.63						
LAA300-38-2	300 kcmil	3/8	1.38	2.25	0.34	4	Blue	P76	470	76	2 5/16	2
LAA300-12-2	300 kcmil	1/2	1.38	2.25	0.34	4						
LAA350-12-2	350 kcmil	1/2	1.51	2.25	0.38	4.28	Brown	P87	299	87	2 5/16	
LAA400-58-2R	400 kcmil	5/8	1.61	2.5	0.41	4.88	Green	P94	472	94	2 9/16	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Code Conductor, One-Hole, Aluminum Lug (continued)

Part Number	Aluminum or Copper Conductor Size	Stud Hole Size (in.)	Figure Dimensions (In.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (in.)	Std. Pkg. Qty.
LAA500-12-2	500 kcmil	1/2	1.74	3	0.45	5.5	Pink	P99	300	99	3 1/16	2
LAA500-58-2	500 kcmil	5/8	1.74	3	0.45	5.5	Pink	P99	300	99	3 1/16	
LAA750-12-1	750 kcmil	1/2	1.74	3.38	0.54	6.5	Red	P125	301	125	3 7/16	1
LAA750-58-1	750 kcmil	5/8	1.74	3.38	0.54	6.5	Red	P125	301	125	3 7/16	
LAA900-58-1	900 kcmil	5/8	1.74	3.38	0.59	6.63	Gray	P140	474	140	3 7/16	
LAA1000-58-1	1000 kcmil	5/8	2.56	4.5	0.63	7.31	Brown	P161	302	161	4 3/4	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

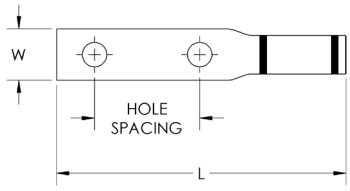
Code Conductor, Two-Hole, Aluminum Lug

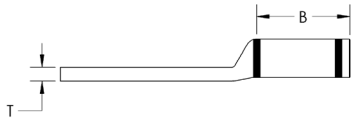
For Use with Stranded Aluminum or Copper Code Conductors

Type LAB

- Manufactured from high conductivity thick wall wrought aluminum
- Factory pre-filled with joint compound and sealed with easy pull-out end plug to inhibit corrosion
- Color-coded barrel markings and Panduit and specified competitor die index numbers marked on barrel for proper crimp die selection
- Enclosed barrel prevents corrosive material from entering barrel when used in harsh environments
- Tin-plated to inhibit corrosion
- cULus listed to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- Available with NEMA hole sizes and spacing







	Part Number	Aluminum or Copper Conductor Size	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Figure Dimensions (in.) W	B	T	L	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (in.)	Std. Pkg. Qty.
	LAB1/0-38-X	1/0 AWG	3/8	1.75	0.86	1.5	0.23	5.39	Tan	P50	296	50	1 9/16	10
	LAB1/0-12-X	1/0 AWG	1/2	1.75	0.86	1.5	0.23	5.39						
◆	LAB2/0-12-5	2/0 AWG	1/2	1.75	0.94	1.5	0.25	5.56	Olive	P54	297	54	1 9/16	5
◆	LAB3/0-12-5	3/0 AWG	1/2	1.75	1.03	1.55	0.27	5.56	Ruby	P60	467	60	1 9/16	
◆	LAB4/0-12-5R	4/0 AWG	1/2	1.75	1.19	1.75	0.31	5.94	White	P66	298	66	1 3/4	
◆	LAB250-12-5	250 kcmil	1/2	1.75	1.26	2	0.33	5.28	Red	P71	324	71	1 3/4	
◆	LAB300-12-2	300 kcmil	1/2	1.75	1.32	2.25	0.34	6.56	Blue	P76	470	76	2 5/16	2
◆	LAB350-12-2R	350 kcmil	1/2	1.75	1.52	2.31	0.39	6.07	Brown	P87	299	87	2 5/16	
◆	LAB400-12-2	400 kcmil	1/2	1.75	1.66	2.5	0.39	6.94	Green	P94	472	94	2 9/16	
◆	LAB500-12-2R	500 kcmil	1/2	1.75	1.62	3	0.46	6.8	Pink	P99	300	99	3 1/16	
◆	LAB600-12-2	600 kcmil	1/2	1.75	1.73	3	0.5	7.56	Black	P106	473	106	3 1/16	
◆	LAB750-12-1R	750 kcmil	1/2	1.75	1.69	3.44	0.57	7.31	Red	P125	301	125	3 7/16	1
◆	LAB800-12-1	800 kcmil	1/2	1.75	1.75	3.38	0.59	8.31	Gray	P140	474	140	3 7/16	1
◆	LAB900-12-1	900 kcmil	1/2	1.75	1.74	3.38	0.59	8.31						
◆	LAB1000-12-1	1000 kcmil	1/2	1.75	2.56	4.5	0.63	8.73	Brown	P161	302	161	4 3/4	1

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
◆NEMA hole sizes and spacing.

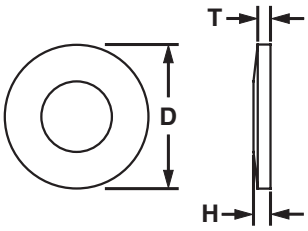
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Belleville Compression Washers

Type CW

- Conical spring washer for use when assembling aluminum connectors to copper and/or steel pads, compensates for differing rates of thermal expansion to keep hardware assembly from loosening
- For assembly information, see page D2.94
- Made from hardened steel to provide high strength
- Cadmium-plated to inhibit corrosion





Part Number	Stud Hole Size (in.)	Figure Dimensions (in.)			Std. Pkg. Qty.
		D	H	T	
CW-14-L	1/4	0.68	0.09	0.05	50
CW-56-L	5/16	0.81	0.08	0.06	
CW-38-L	3/8	0.93	0.10	0.07	
CW-12-Q	1/2	1.18	0.12	0.09	25
CW-58-Q	5/8	1.49	0.15	0.12	

Joint Compounds

For Use with Aluminum Connectors

Type CMP

- Oxide inhibitor for compression conductor connections lowers electrical resistance of compression joint while sealing out air and moisture to prevent the formation of surface oxides
- Wide operating temperature range; can be used in a wide range of electrical and environmental conditions
- Packaged in convenient dispenser bottles



Part Number	Part Description	Std. Pkg. Qty.
CMP-100-1	Contact aid for pad-to-pad or thread-to-thread aluminum connections, 8 oz. Operating temperature range -60°F (-51°C) to 400°F (204°C).	1
CMP-200-1	Contact aid for cable connections with compression connections made on aluminum conductor, 8 oz. Operating temperature range -40°F (-40°C) to 400°F (204°C). Compatible with all insulating materials.	

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Aluminum Splice

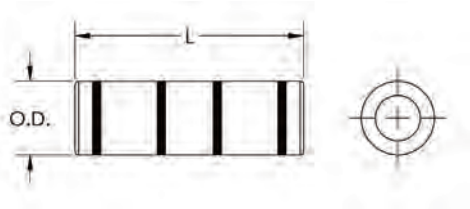
LISTED CERTIFIED

For Use with Stranded Aluminum-to-Aluminum or Copper-to-Copper Conductors

Type SA

- Manufactured from high conductivity thick wall wrought aluminum
- Factory pre-filled with joint compound and sealed with easy pull-out end plug to inhibit corrosion
- Color-coded barrel markings with Panduit® and specified competitor die index numbers marked on barrel for proper crimp die selection
- Tin-plated to inhibit corrosion
- Internal solid center prevents over-insertion of conductor
- cULus listed to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies





Part Number	Aluminum or Copper Conductor Size	Figure Dimensions (in.)		Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (in.)	Std. Pkg. Qty.
		Barrel O.D.	L						
SA6-X	6 AWG	0.34	1.62	Gray	P29	346	29	3/4	10
SA4-XR	4 AWG	0.48	2.13	Green	P37	375	37	7/8	
SA2-X	2 AWG	0.53	2.00	Pink	P42	348	45	7/16	
SA1-X	1 AWG	0.53	2.00	Gold	P45	471	45	7/16	
SA1/0-X	1/0 AWG	0.64	2.12	Tan	P50	296	50	1	
SA2/0-5	2/0 AWG	0.69	2.31	Olive	P54	297	54	1 1/8	5
SA3/0-5	3/0 AWG	0.76	2.62	Ruby	P60	467	60	1 1/4	
SA4/0-5	4/0 AWG	0.88	2.75	White	P66	298	66	1 5/16	
SA250-5	250 kcmil	0.91	2.94	Red	P71	324	71	1 7/16	
SA300-2	300 kcmil	1.01	3.12	Blue	P76	470	76	1 1/2	2
SA350-2	350 kcmil	1.12	3.37	Brown	P87	299	87	1 5/8	
SA400-2	400 kcmil	1.19	3.75	Green	P94	472	94	1 13/16	
SA500-2	500 kcmil	1.32	3.87	Pink	P99	300	99	1 7/8	
SA600-2	600 kcmil	1.44	4.12	Black	P106	473	106	2	
SA750-1	750 kcmil	1.60	4.62	Red	P125	301	115	2 1/4	1
SA800-1	800 kcmil	1.66	4.75	Gray	P140	474	125	2 5/16	
SA900-1	900 kcmil ^	1.66	4.75	Gray	P140	474	140	3-7/16	
SA1000-1	1000 kcmil	1.84	5.25	Brown	P161	302	161	2 9/16	

‡Visit www.panduit.com/tools for tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
See pages D2.62, D2.99 for Panduit joint compounds recommended for pad to pad and conductor connections.
^ Aluminum wire only.

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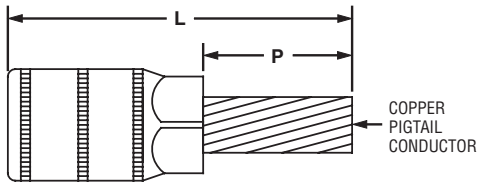
Code Conductor, Aluminum, Bi-Metallic Pin Connector

Provides Copper Pigtail for Connecting Aluminum Conductors to a Copper or Aluminum/Copper Rated Mechanical Lug

Type BPC

- Factory pre-filled with joint compound and sealed with easy pull-out end plug to inhibit corrosion
- Panduit die index number and color code embossed on barrel for proper crimp die selection
- Insulating rubber sleeve included to insulate aluminum barrel from contact with copper connector when attached to pin
- Tin-plated to inhibit corrosion
- UL Listed per UL 486B; temperature rated 90°C and for use up to 600 V when crimped with Panduit and specified competitor crimping tools and dies





Part Number	Aluminum Conductor Size	Copper Pigtail Size	Figure Dimensions (In.) L	Figure Dimensions (In.) P	Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (in.)	Std. Pkg. Qty.
BPC6-L	6 AWG	8 AWG	2.45	0.88	Tan	P50	296	50	1 1/16	50
BPC4-L	4 AWG	6 AWG	2.45	0.88						
BPC2-L	2 AWG	4 AWG	2.45	0.88						
BPC1-X	1 AWG	3 AWG	2.58	1.00						
BPC1/0-X	1/0 AWG	2 AWG	3.33	1.25	Red	P71	298	76	1 5/16	10
BPC2/0-X	2/0 AWG	1 AWG	3.33	1.25						
BPC3/0-X	3/0 AWG	1/0 AWG	3.46	1.38						
BPC4/0-X	4/0 AWG	2/0 AWG	3.46	1.38						
BPC250-X	250 kcmil	3/0 AWG	3.71	1.50	Green	P94	299	99, 87	1 7/16	10
BPC300-X	300 kcmil	4/0 AWG	4.10	1.63						
BPC350-X	350 kcmil	4/0 AWG	4.10	1.63						
BPC400-X	400 kcmil	250 kcmil	4.35	1.88	Black	P106	300	106	1 7/16	10
BPC500-X	500 kcmil	350 kcmil	4.35	1.88						
BPC600-6	600 kcmil	350 kcmil	4.77	1.88	Red	P125	936	115	1 15/16	6
BPC750-6	750 kcmil	500 kcmil	4.90	2.00						

‡Visit www.panduit.com/tools for tool and die information.
See pages D2.62, D2.99 for Panduit joint compounds recommended for pad to pad and conductor connections.

Order number of pieces required, in multiples of Standard Package Quantity.

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Mechanical Connectors

Panduit® offers a broad variety of mechanical lugs, splices, and split bolt connectors suitable for a wide range of electrical terminations using code conductor. Designed to be reusable and installed without special tooling, Pan-Lug™ Mechanical Connectors provide quality performance, ease of installation, and lowest installed cost.

- **Functional product information is marked directly on the connector, facilitating the identification, ordering, and usage of the mechanical connector**
- **Incorporate wide wire range-taking capability to minimize inventory requirements**
- **Made from high strength, high conductivity electrolytic copper and aluminum alloy materials to provide optimum connectivity for power and grounding applications**
- **UL Listed and CSA Certified, as noted**

Pan-Lug™ Mechanical Connectors include split bolt connectors, copper mechanical lugs, aluminum mechanical lugs and aluminum multi-tap connectors with clear PVC insulation. Products are available in stamped and formed, extruded and cast varieties of multiple barrel and tongue configurations to provide solutions for diverse power and grounding needs. Panduit offers a wide assortment of Pan-Lug™ Power and Grounding Connectors to meet customer needs and today's application requirements.

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Features and Benefits – Pan-Lug™ Mechanical Connectors

Copper Split Bolt Connectors

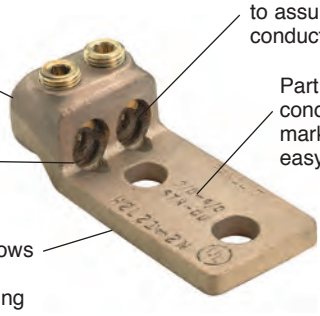


- Part number and conductor range marked on part for easy identification
- Waxed body to prohibit binding of contact pad or nut
- Extra-long body available to connect two taps with one run
- Hex head with large wrench flats for easy assembly
- 250 kcmil and larger sizes have contact serrations for higher pull-out strength
- Made from high strength copper alloy

UL LISTED, CSA CERTIFIED, c UL us, DB RATED

DB rated with select Copper Split Bolt sizes

Cast Copper Connectors



- Made from high strength copper alloy
- Serrated barrel available for high pull-out strength
- Flat bottom allows full contact surface mounting
- Inspection windows to assure complete conductor insertion
- Part number and conductor range marked on part for easy identification

UL LISTED

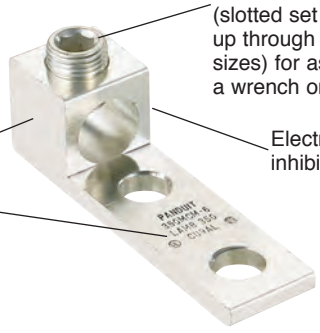
Stamped and Formed Copper Connectors



- Made from high strength, electrolytic copper alloy
- Part number and conductor range marked on part for easy identification
- Hex head or internal hex bolt for sizes larger than 1/0 AWG
- Two styles of tongues available: fixed and floating

UL LISTED, CSA CERTIFIED, c UL us LISTED

Aluminum Connectors



- Dual rated for aluminum or copper conductors
- Made from high strength, extruded aluminum alloy
- Part number and conductor range marked on part for easy identification
- Hex socket set screw (slotted set screw used up through 2/0 AWG sizes) for assembly with a wrench or screwdriver
- Electro tin-plated to inhibit corrosion

UL LISTED, CSA CERTIFIED

Multi-Tap Connectors



- Hex socket set screws (slotted set screw for smallest size) for assembly with a wrench or screwdriver
- Pre-insulated aluminum body to eliminate the need for taping
- Dual-sided conductor entry
- Clear PVC insulation for visual inspection of the complete conductor insertion
- Factory pre-filled with oxide inhibitor to prevent oxidation
- Made from high strength, extruded aluminum alloy

Available with two isolated mounting holes at either end of connector to facilitate direct mounting using 1/4" bolts.

UL LISTED, CSA CERTIFIED

Order number of pieces required, in multiples of Standard Package Quantity.

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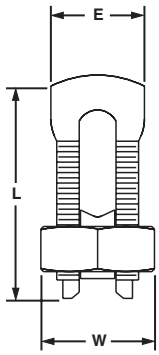
Split Bolt, Copper

For Use with Copper Code Conductors

Type SBC

- Made from high strength copper alloy to resist corrosion and provide premium electrical and mechanical performance
- Offered with extra long body to allow connection of one or two taps to a single run conductor
- Wide wire range-taking capability minimizes inventory requirements
- Nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector assuring premium wire pull-out strength
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C
- UL Listed and CSA Certified for Direct Burial Grounding for connectors marked ** below
- *Parts are cULus Listed for direct burial grounding.





Part Number	Copper Conductor			Figure Dimensions (In.)			Std. Pkg. Qty.
	Range of Equal Run and Tap		Min. Tap with One Max. Run				
	Min.	Max.		E	W	L	
SBC8-C	#10 SOL	#8 STR	#16 STR	0.39	0.55	0.86	100
SBC8L-C*	#16 STR	#8 STR	#16 STR	0.38	0.50	0.84	
SBC6S-C	#8 SOL	#6 SOL	#16 SOL	0.41	0.62	0.95	
SBC6SL-C*	#8 STR	#6 SOL	#16 STR	0.41	0.63	1.10	
SBC4S-C	#8 SOL	#6 STR	#14 STR	0.45	0.69	0.98	
SBC4SL-C*	#8 STR	#6 STR	#14 STR	0.45	0.69	1.30	
SBC3-C	#8 SOL	#4 STR	#14 STR	0.58	0.81	1.16	
SBC2-C	#6 SOL	#2 STR	#14 STR	0.59	0.86	1.23	
SBC2L-C*	#6 SOL	#2 STR	#14 STR	0.63	0.81	1.55	
SBC1/0-L	#4 SOL	1/0 STR	#14 STR	0.75	0.93	1.55	50
SBC2/0-Q	#2 SOL	2/0 STR	#14 STR	0.79	1.05	1.72	25
SBC3/0-Q	#1 SOL	3/0 STR	#8 STR	0.95	1.24	2.07	
SBC250-Q	#1 SOL	250 kcmil	#8 STR	1.03	1.36	2.09	
SBC350-1	2/0 SOL	350 kcmil	2/0 SOL	1.16	1.48	2.42	1
SBC500-1	300 kcmil	500 kcmil	2/0 STR	1.33	1.74	2.83	
SBC750-1*^	350 kcmil	750 kcmil	#8 SOL	1.94	2.13	3.75	
SBC1000-1*^	500 kcmil	1000 kcmil	#8 SOL	2.25	2.50	4.00	

^ DB rated and approved for up to 500 kcmil.

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Split Bolt, Copper, Tin-Plated

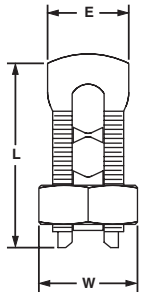
LISTED CERTIFIED

For Specified Combinations of Copper and Aluminum Code Conductors

Type SBCT

- Made from high strength copper alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion and oxidation
- Offered with dual rating for use with aluminum or copper conductors
- Wide wire range-taking capability minimizes inventory requirements
- Nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Free floating pressure bar separates conductors of dissimilar materials for secure connection on a full range of conductor combinations
- UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C





Part Number	Copper and Aluminum Code Conductor			Figure Dimensions (In.)			Std. Pkg. Qty.
	Range of Equal Run and Tap		Min. Tap with One Max. Run				
	Min.	Max.		E	W	L	
UL Listed and CSA Certified with Copper and Aluminum Conductors							
SBCT8-C	#8 SOL	#6 SOL	#14 SOL	0.41	0.62	1.06	100
SBCT6-C	#8 SOL	#6 STR	#10 STR	0.49	0.68	1.10	
SBCT3-C	#8 SOL	#4 STR	#10 STR	0.58	0.81	1.24	
SBCT2-C	#6 SOL	#2 STR	#14 STR	0.60	0.86	1.45	
SBCT1/0-L	#4 SOL	1/0 STR	#10 STR	0.75	0.93	1.73	50
SBCT2/0-Q	#2 SOL	2/0 STR	#8 STR	0.79	1.05	1.71	25
UL Listed and CSA Certified with Copper Code Conductors Only							
SBCT10-C	#16 STR	#10 STR	#16 STR	0.38	0.49	0.87	100
SBCT3/0-Q	#1 SOL	3/0 STR	#8 STR	0.75	1.25	2.12	25
SBCT250-Q	#1 SOL	250 kcmil	#8 STR	1.03	1.36	2.22	
SBCT350-1	2/0 SOL	350 kcmil	1/0 STR	1.17	1.49	2.55	1
SBCT500-1	300 kcmil	500 kcmil	2/0 STR	1.32	1.74	2.95	
SBCT750-1	250 kcmil	750 kcmil	2/0 STR	1.93	2.11	3.78	
SBCT1000-1	350 kcmil	1000 kcmil	4/0 STR	2.29	2.53	4.02	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended. See page D2.99.

Order number of pieces required, in multiples of Standard Package Quantity.

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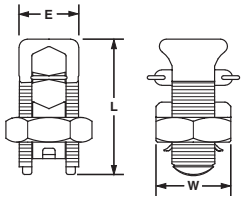
Split Bolt, Aluminum

For Use with Copper and Aluminum Code Conductors

Type SBA

- Made from lightweight, durable aluminum alloy to resist corrosion and provide premium electrical and mechanical performance
- Dual rated for use with aluminum to aluminum, aluminum to copper, and copper to copper conductor combinations
- Tin-plated to inhibit corrosion and oxidation
- Wide wire range-taking capability minimizes inventory requirements
- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Free floating pressure bar separates conductors of dissimilar materials for secure connection on a full range of conductor combinations
- UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C





Part Number	Max. Run to Max. Tap	Min. Run to Min. Tap	Max. Run to Min. Tap	Figure Dimensions (In.)			Std. Pkg. Qty.
				E	W	L	
SBA6-C	#6 STR – #6 STR	#10 SOL – #10 SOL	#6 STR – #10 SOL	0.56	0.75	1.58	100
SBA4-C	#4 STR – #4 STR	#8 SOL – #10 SOL	#4 STR – #10 SOL	0.62	0.81	1.38	
SBA2-C	#2 STR – #2 STR	#6 SOL – #8 STR	#2 STR – #8 STR	0.69	0.94	1.58	
SBA1/0-Q	1/0 STR – 1/0 STR	#2 STR (Compact) – #8 SOL	1/0 STR – #8 SOL	0.75	1.00	1.92	25
SBA2/0-Q	2/0 STR – 2/0 STR	#2 STR (Compact) – #8 STR	2/0 STR – #8 STR	0.88	1.12	1.92	
SBA4/0-Q	4/0 STR – 4/0 STR	#2 STR (Compact) – #6 STR	4/0 STR – #6 STR	1.13	1.49	2.54	
SBA350-1^	350 kcmil – 350 kcmil	1/0 STR (Compact) – #4 STR	350 kcmil – #4 STR	1.50	1.69	3.24	1
SBA500-1^	500 kcmil – 500 kcmil	400 kcmil (Compact) – #2 STR (Compact)	500 kcmil – #2 STR (Compact)	1.73	2.00	3.62	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended. See page D2.99.
^Not CSA Certified.

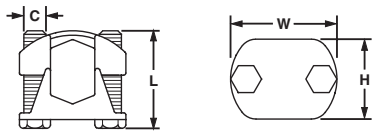
Two-Bolt Connector, Bronze

For Use with Copper Code Conductors

Type VT

- Made from high strength bronze for heavy duty connections and to inhibit corrosion
- Cap swivels for easy installation of conductors
- Rubber washer retains hardware to connector and eliminates loose parts
- High strength silicon-bronze hardware provides premium mechanical performance when assembled to conductor
- Wide wire range-taking capability minimizes inventory requirements
- UL Listed for use up to 600 V and 90°C temperature rated





Part Number	Copper Conductor Size		Figure Dimensions (In.)				Hex Size (In.)	Std. Pkg. Qty.
	Run	Tap	L	W	H	C		
VT-0-Q	#2 STR – 1/0 STR	#10 STR – 1/0 STR	1.50	1.44	0.94	0.31	1/2	25
VT-1-Q	#2 STR – 2/0 STR	#10 STR – 2/0 STR	1.50	1.56	1.13	0.31	1/2	
VT-2-Q	1/0 STR – 4/0 STR	#10 STR – 4/0 STR	1.75	1.84	1.34	0.38	9/16	
VT-3-12	250 kcmil – 350 kcmil	#10 STR – 350 kcmil	2.00	2.31	1.63	0.50	3/4	12
VT-4-12	250 kcmil – 500 kcmil	#10 STR – 500 kcmil	2.25	2.44	1.69	0.50	3/4	
VT-5-6	400 kcmil – 800 kcmil	3/0 STR – 800 kcmil	2.50	2.69	1.88	0.50	9/16	6
VT-6-6	500 kcmil – 1000 kcmil	3/0 STR – 1000 kcmil	2.75	3.06	2.25	0.63	15/16	

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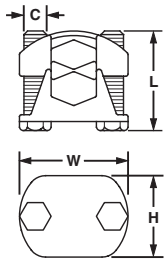
Two-Bolt Connector, Bronze, Tin-Plated

For Use with Copper and Aluminum Code Conductors

Type VTA

- Made from high strength bronze for heavy duty connections
- Tin-plated to inhibit corrosion and oxidation
- Cap swivels for easy installation of conductors
- Rubber washer retains hardware to connector and eliminates loose parts
- High strength silicon-bronze hardware provides premium mechanical performance when assembled to conductor
- Offered for use with aluminum conductors, but not UL Listed
- UL Listed for use up to 600 V and 90°C temperature rated when used with copper code conductor





Part Number	Copper Conductor Size Range		Copperweld Solid	Aluminum		Figure Dimensions (In.)				Hex Size (In.)	Std. Pkg. Qty.
	Run	Tap		AWG	ACSR	L	W	H	C		
VTA-0-Q	2 STR – 1/0 STR	10 STR – 1/0 STR	2/0	1/0 STR	1	1.25	1.44	0.94	5/16	1/2	25
VTA-1-Q	2 STR – 2/0 STR	10 STR – 2/0 STR	3/0	—	—	1.50	1.56	1.13	5/16	1/2	
VTA-2-Q	1/0 STR – 4/0 STR	10 STR – 4/0 STR	4/0	—	—	1.75	1.84	1.34	3/8	9/16	
VTA-3-12	250 – 350 kcmil	10 STR – 350 kcmil	—	—	—	2.00	2.31	1.63	1/2	3/4	12
VTA-4-12	250 – 500 kcmil	10 STR – 500 kcmil	—	—	—	2.25	2.44	1.69	1/2	3/4	
VTA-5-6	400 – 800 kcmil	3/0 STR – 800 kcmil	—	—	—	2.50	2.69	1.88	1/2	3/4	6
VTA-6-6	500 – 1000 kcmil	3/0 STR – 1000 kcmil	—	—	—	2.75	3.06	2.25	5/8	15/16	

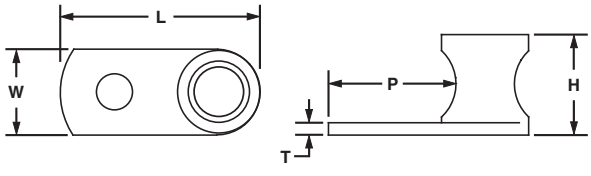
One-Hole, Straight Tongue, Barrel Post Lug

For Use with Copper Code Conductors

Type ML

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- Flat bottom allows for complete contact with mounting surface
- UL Listed for use up to 600 V and temperature rated 90°C
- Tin plating is available, contact customer service





Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	T	P	
ML8-CY	#14 SOL – #8 STR	3/16	**	0.81	0.38	0.42	0.08	0.48	100
ML4-CY	#14 SOL – #4 STR	1/4	**	1.11	0.54	0.55	0.09	0.63	
ML1/0-LY	#14 SOL – 1/0 STR	5/16	1/4	1.54	0.73	0.79	0.09	0.80	50
ML250-QY	#6 STR – 250 kcmil	3/8	1/4	1.94	0.94	1.06	0.12	1.00	25

**Uses slotted head set screw.

Order number of pieces required, in multiples of Standard Package Quantity.

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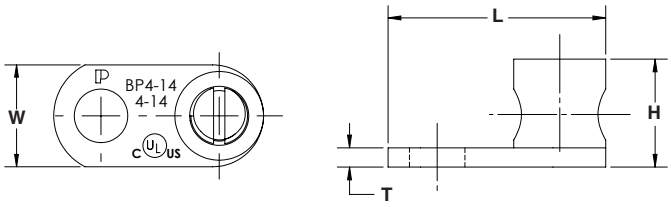
One-Hole, Straight Tongue, Barrel Post Lug

For Use with Stranded Copper Code Conductors

Type BP

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- Flat bottom allows for complete contact with mounting surface
- cULus Listed for use up to 600V
- Tin plating is available, contact customer service
- Available with and without tin plating as standard part number





Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Install Tool	Figure Dimensions (In.)					Tin Plated	Std. Pkg. Qty.
				L	W	H	T	P		
BP4-14-C	#14 AWG SOL - #4 AWG STR	1/4	Slot Screwdriver	1.11	0.54	0.55	0.1	1.06	No	100
BP4-14T-C	#14 AWG SOL - #4 AWG STR	1/4	Slot Screwdriver	1.11	0.54	0.55	0.1	1.06	Yes	

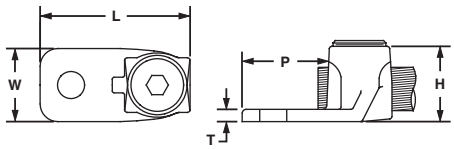
One-Hole, Straight Tongue Lug

For Use with Copper Code Conductors

Type PNL

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- Flat bottom allows for complete contact with mounting surface
- UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C





Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	T	P	
PNL-4-C	#14 SOL – #4 STR	1/4	**	1.25	0.53	0.56	0.14	0.66	100
PNL-1/0-L	#8 SOL – 1/0 STR	5/16	1/4	1.59	0.73	0.78	0.14	0.85	50
PNL-250-Q	#6 SOL – 250 kcmil	3/8	5/16	1.97	0.94	1.05	0.13	1.00	25
PNL-500-3	#4 SOL – 500 kcmil	1/2	3/8	3.00	1.38	1.47	0.25	1.63	3
PNL-1000-3	500 kcmil – 1000 kcmil	1/2	1/2	3.88	1.75	2.00	0.38	2.13	3

**Uses slotted head set screw.

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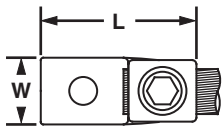
One-Hole, Straight Tongue Lug with Internal Pressure Plate

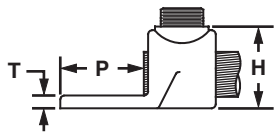
For Use with Copper Code Conductors

Type HL

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Pressure plate* provides uniform clamping force on conductor for premium electrical performance
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- Flat bottom allows for complete contact with mounting surface
- Inspection window to visually assure full conductor insertion
- UL Listed for use up to 600 V and temperature rated 90°C







Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	T	P	
HL1-25-X	#14 SOL – #8 STR	1/4	**	1.38	0.56	0.79	0.19	0.81	10
HL4-1-X	#8 SOL – #4 STR	1/4	**	1.38	0.56	0.79	0.19	0.81	
HL8-1-X	#4 SOL – #1 STR	1/4	7/16	1.56	0.75	0.90	0.22	0.69	
HL13-1-5	#1 STR – 2/0 STR	3/8	9/16	1.88	0.81	1.14	0.22	0.88	5
HL21-1-5	2/0 STR – 4/0 STR	3/8	9/16	2.19	1.00	1.31	0.25	1.00	
HL30-1-2	4/0 STR – 300 kcmil	1/2	5/8	2.50	1.06	1.47	0.31	1.25	2
HL50-1-2	300 kcmil – 500 kcmil	1/2	3/8	3.00	1.38	1.65	0.34	1.50	

*HL1-25-X and HL4-1-X do not include pressure plates.
**Uses slotted head set screw.

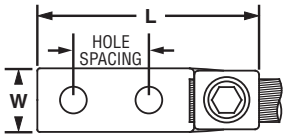
Two-Hole, Straight Tongue Lug with Internal Pressure Plate

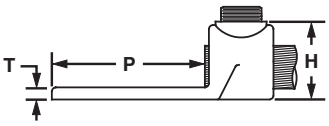
For Use with Copper Code Conductors

Type HL-2

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure plate provides uniform clamping force on conductor for premium electrical performance
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- Inspection window to visually assure full conductor insertion
- Flat bottom allows for complete contact with mounting surface
- UL Listed for use up to 600 V and temperature rated 90°C







Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	T	P	
HL1-2-25-X	#14 SOL – #8 STR	1/4	**	2.00	0.56	0.70	0.19	1.25	10
HL4-2-X	#8 SOL – #4 STR	1/4	**	2.00	0.56	0.69	0.18	1.25	
HL8-2-X	#4 SOL – #1 STR	1/4	7/16	2.44	0.75	0.92	0.22	1.50	
HL13-2-5	#1 STR – 2/0 STR	3/8	9/16	2.88	0.81	1.07	0.22	1.88	5
HL21-2-5	2/0 STR – 4/0 STR	3/8	9/16	3.00	1.00	1.33	0.25	1.75	
HL30-2-2	4/0 STR – 300 kcmil	3/8	5/8	3.13	1.06	1.45	0.31	2.00	2
HL50-2-2	300 kcmil – 500 kcmil	3/8	3/4	3.44	1.38	1.66	0.34	2.00	

**Uses slotted head set screw.

Order number of pieces required, in multiples of Standard Package Quantity.

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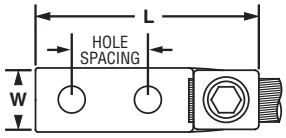
Two-Hole, Straight Tongue Lug with NEMA Hole Sizes and Spacing

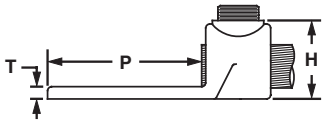
For Use with Copper Code Conductors

Type HL-2N

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure plate provides uniform clamping force on conductor for premium electrical performance
- Internal barrel serrations allow for premium wire pull-out strength
- Inspection window to visually assure full conductor insertion
- Flat bottom allows for complete contact with mounting surface
- UL Listed for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing







	Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
						L	W	H	T	P	
◆	HL1-2-25-X	#4 SOL – #1 STR	1/2	1.75	7/16	3.94	1.00	0.90	0.22	3.00	10
◆	HL4-2-X	#1 STR – 2/0 STR			9/16	4.25	1.00	1.07	0.22	3.00	
◆	HL8-2-X	2/0 STR – 4/0 STR			9/16	4.19	1.25	1.34	0.25	3.00	
◆	HL13-2-5	4/0 STR – 300 kcmil	1/2	1.75	5/8	4.25	1.25	1.46	0.31	3.00	5

◆NEMA hole sizes and spacing.

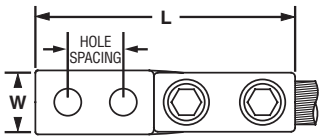
Two-Hole, Straight Tongue, Tandem Set Screw Lug

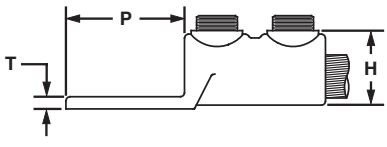
For Use with Copper Code Conductors

Type HHL-2N

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Double set screws provide additional wire secureness for use in heavy duty applications
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure plate provides uniform clamping force on conductor for premium electrical performance
- Internal barrel serrations allow for premium wire pull-out strength
- Inspection window to visually assure full conductor insertion
- Flat bottom allows for complete contact with mounting surface
- UL Listed for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing







	Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
						L	W	H	T	P	
◆	HHL8-2N-X	#4 SOL – #1 STR	1/2	1.75	7/16	5.13	1.00	0.80	0.22	3.00	10
◆	HHL13-2N-5	#1 STR – 2/0 STR			9/16	4.88	1.25	1.00	0.22	3.00	5
◆	HHL21-2N-5	2/0 STR – 4/0 STR			9/16	5.63	1.50	1.37	0.25	3.00	
◆	HHL30-2N-1	4/0 STR – 300 kcmil			5/8	5.88	1.50	1.45	0.31	3.00	1

◆NEMA hole sizes and spacing.

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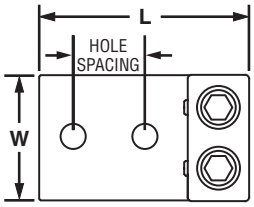
Two-Hole, Straight Tongue, Two-Barrel Lug

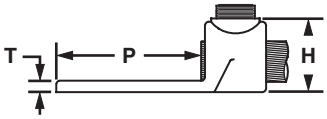
For Use with Copper Code Conductors

Type H2L-2N

- Allows for termination of two copper conductors
- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure plate provides uniform clamping force on conductor for premium electrical performance
- Internal barrel serrations provide premium wire pull-out strength
- Inspection window to visually assure full conductor insertion
- Flat bottom allows for complete contact with mounting surface
- UL Listed for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing







	Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
						L	W	H	T	P	
◆	H2L4-2N-X	#8 SOL – #4 STR	1/2	1.75	**	3.75	1.25	0.76	0.19	3.00	10
◆	H2L8-2N-2	#4 SOL – #1 STR			7/16	3.94	1.38	0.92	0.22	3.00	2
◆	H2L13-2N-2	#1 STR – 2/0 STR			9/16	4.00	1.63	1.06	0.22	3.00	
◆	H2L21-2N-2	2/0 STR – 4/0 STR			9/16	4.19	1.88	1.34	0.31	3.00	
◆	H2L30-2N-1	4/0 STR – 300 kcmil			5/8	4.38	2.00	1.45	0.31	3.00	1

**Uses slotted head set screw.
◆NEMA hole sizes and spacing.

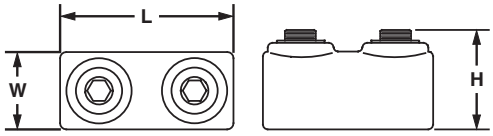
Two-Set Screw Splice with Internal Pressure Plate

For Use with Copper Code Conductors

Type HC

- Cast from high strength corrosion resistant copper alloy to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure plate provides uniform clamping force on conductor for premium electrical performance
- Internal barrel serrations provide premium wire pull-out strength
- Internal wire stops to prevent over-insertion of conductor
- UL Listed for use up to 600 V and temperature rated 90°C





Part Number	Copper Conductor Size Range	Hex Key Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			L	W	H	
HC4-3*	#8 SOL – #4 STR	**	1.25	0.50	0.56	3
HC8-3*	#4 SOL – #1 STR	7/16	1.75	0.69	0.81	
HC13-3	#1 STR – 2/0 STR	1/4	2.00	0.81	0.94	
HC21-1	2/0 STR – 4/0 STR	9/16	2.25	1.00	1.19	1
HC30-1	4/0 STR – 300 kcmil	5/16	2.56	1.19	1.44	
HC50-1	300 kcmil – 500 kcmil	3/4	3.00	1.38	1.63	

*Includes swivel screws, not internal pressure plate.
**Uses slotted head set screw.

Order number of pieces required, in multiples of Standard Package Quantity.

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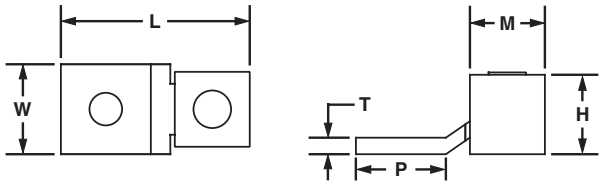
One-Hole, Single Piece, Straight Fixed Tongue Lug

For Use with Stranded Copper Code Conductors

Type CXS

- Made from a single piece of high strength electrolytic copper to provide premium electrical and mechanical performance
- Patented one piece design. Provides premium electrical and mechanical
- Wide wire range-taking capability minimizes inventory requirements
- Serrations incorporated in barrel of connector to provide premium wire pullout strenth of wire termination
- Plated, fillister head, steel set screw provides high strength, durable electrical contact btween conductor and connector
- cULus Listed for use for up to 600 V and temperature rated to 90 C where applicable





Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
			L	W	H	T	M	
CXS35-36-C	14 AWG - 6 AWG	3/16	1.08	0.38	0.39	0.05	0.47	100
CXS70-14-C	14 AWG - 4 AWG	1/4	1.28	0.5	0.5	0.06	0.53	
CXS125-14-Q	4 AWG - 1/0 AWG	1/4	1.6	0.62	0.73	0.09	0.65	25
CXS125-56-Q	4 AWG - 1/0 AWG	5/16						

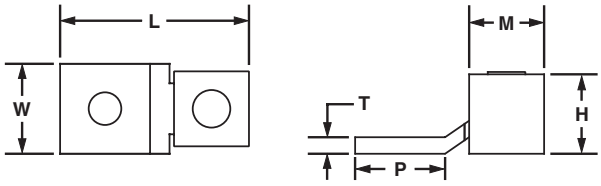
One-Hole, Single Piece, Straight Fixed Tongue, Tin-Plated

For Use with Stranded Copper Code Conductors

Type CXS-T

- Made from a single piece of high strength electrolytic copper to provide premium electrical and mechanical performance
- Patented one piece design. Provides premium electrical and mechanical
- Wide wire range-taking capability minimizes inventory requirements
- Serrations incorporated in barrel of connector to provide premium wire pullout strenth of wire termination
- Plated, fillister head, steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use for up to 600 V and temperature rated to 90°C where applicable
- Tin-plated to inhibit corrosion





Part Number	Copper Conductor Size Range	Stud Hole Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
			L	W	H	T	M	
CXS35-36T-C	14 AWG - 6 AWG	3/16	1.08	0.38	0.39	0.05	0.47	100
CXS70-14-T-C	14 AWG - 4 AWG	1/4	1.28	0.5	0.5	0.06	0.53	100
CXS125-14T-Q	4 AWG - 1/0 AWG	1/4	1.6	0.62	0.73	0.09	0.65	25
CXS125-56T-Q	4 AWG - 1/0 AWG	5/16						

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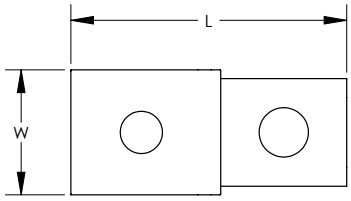
One-Hole, Two Piece, Straight Fixed Tongue Lug

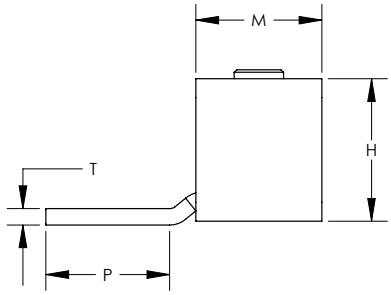
For Use with Stranded Copper Code Conductors

Type CX

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Compact design save space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually inspect for full wire insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V







Part Number	Copper Conductor Size Range	Current Rating (AMPS)	Stud Hole Size (In.)	Hex Size (In.)	Figure Dimensions (In.)						Tin Plated	Std. Pkg. Qty.
					L	W	H	T	P	M		
CX225-56HKR-Q	#2 AWG - 4/0 AWG	225	5/16	7/32	2.19	0.99	1.13	0.13	1.06	1	No	25
CX225-56HKRT-Q	#2 AWG - 4/0 AWG	225	5/16	7/32	2.19	0.99	1.13	0.13	1.06	1	Yes	
CX225-38HKRT-Q	#2 AWG - 4/0 AWG	225	3/8									

Order number of pieces required, in multiples of Standard Package Quantity.

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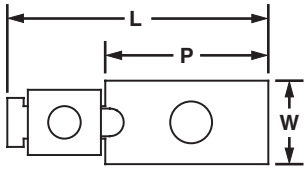
One-Hole, Straight Floating Tongue Lug

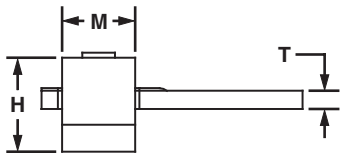
For Use with Stranded Copper Code Conductors

Type CS

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure bar and V-bottom collar provide uniform clamping force on conductor to assure positive contact between conductor and connector
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V and temperature rated to 90°C where applicable







Part Number	Copper Conductor Size Range	Current Rating (Amps)	Stud Hole Size (In.)	Hex Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
					L	W	H	T	P	M	
CS25-18SL-CY	#14 AWG – #10 AWG	25	1/8	**	1.16	0.31	0.36	0.07	0.75	0.28	100
CS35-36SL-CY	#14 AWG – #6 AWG, (2) #10 AWG, (2) #12 AWG, (2) #14 AWG, (1) #10 AWG with (1) #12 AWG, (1) #12 AWG with (1) #14 AWG	50	3/16	**	1.14	0.38	0.49	0.07	0.60	0.43	
CSA70-14-CY	#14 AWG – #4 AWG	70	1/4	**	1.30	0.50	0.64	0.08	0.81	0.50	
CS70-14SL-CY	#12 AWG – #2 AWG, (1) #8 AWG with (1) #4 AWG, (1) #8 AWG with (1) #6 AWG	90	1/4	**	1.30	0.50	0.64	0.08	0.81	0.50	
CS125-14SL-QY	#2 AWG – 1/0 AWG	125	1/4	**	1.94	0.62	0.88	0.11	1.00	0.60	25
CS175-38HK-QY	#4 AWG – 3/0 AWG	175	3/8	3/16	2.19	0.75	1.01	0.16	1.25	0.72	
CS225-56HKR-Q	#2 AWG – 4/0 AWG	225	5/16	7/32	2.38	0.99	1.13	0.12	1.19	0.94	
CS300-38HK-QY	#1 AWG – 350 kcmil	300	3/8	5/16	3.19	0.99	1.39	0.12	1.63	1.23	
CS400-38HK-3Y	1/0 AWG – 500 kcmil	400	3/8	5/16	3.88	1.50	1.61	0.18	2.19	1.41	3
CS650-12HK-3Y	600 kcmil – 1000 kcmil	650	1/2	3/8	5.13	2.00	2.32	0.25	2.82	1.85	

**Uses slotted head set screw.

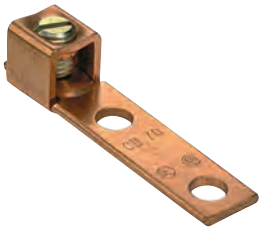
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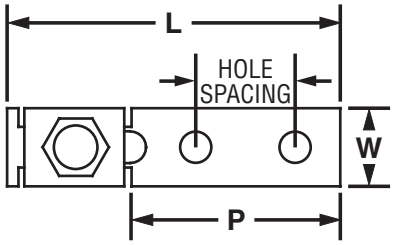
Two-Hole, Straight Floating Tongue Lug

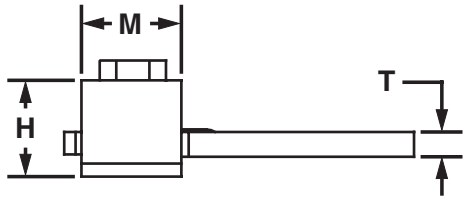
For Use with Stranded Copper Code Conductors

Type CD

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure bar and V-bottom collar provide uniform clamping force on conductor to assure positive contact between conductor and connector
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V and temperature rated to 90°C where applicable
- Available with NEMA hole sizes and spacing







	Part Number	Copper Conductor Size Range	Current Rating (Amps)	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
							L	W	H	T	P	M	
	CD35-36SL-QY	#14 AWG – #6 AWG, (2) #10 AWG, (2) #12 AWG, (2) #14 AWG, (1) #10 AWG with (1) #12 AWG, (1) #12 AWG with (1) #14 AWG	50	3/16	1.00	**	2.13	0.38	0.49	0.07	1.60	0.43	25
	CD70-14SL-QY	#12 AWG – #2 AWG (1) #8 AWG with (1) #4 AWG, (1) #8 AWG with (1) #6 AWG	90	1/4	1.00	**	2.26	0.50	0.64	0.09	1.63	0.50	
	CD125-14SL-QY	#2 – 1/0 AWG	125	1/4	1.00	**	2.94	0.62	0.88	0.13	1.88	0.60	
	CD225-56HKR-Q	#6 AWG – 4/0 AWG	225	5/16	1.00	7/32	3.38	1.00	1.13	0.13	2.13	.94	
	CD300-38HK-3Y	#1 AWG – 350 kcmil	300	3/8	1.00	5/16	4.94	1.00	1.39	0.19	3.32	1.23	3
	CD400-38HK-3Y	1/0 AWG – 500 kcmil	400	3/8	1.75	5/16	5.62	1.50	1.61	0.19	3.57	1.41	
◆	CD650-12HK-3Y	600 kcmil – 1000 kcmil	650	1/2	1.75	3/8	6.88	2.00	2.32	0.25	4.69	1.85	

**Uses slotted head set screw.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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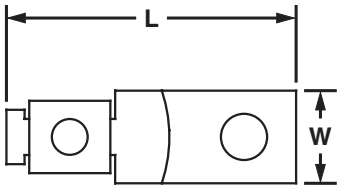
One-Hole, Offset Floating Tongue Lug

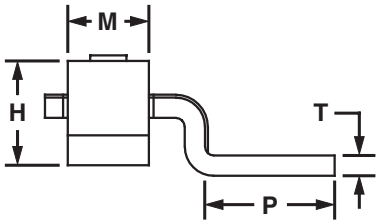
For Use with Stranded Copper Code Conductors

Type CB

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure bar and V-bottom collar provide uniform clamping force on conductor to assure positive contact between conductor and connector
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V and temperature rated to 90°C where applicable







Part Number	Conductor Size Range	Current Rating (Amps)	Stud Hole Size (In.)	Hex Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
					L	W	H	T	P	M	
CB25-18-CY	#14 AWG – #10 AWG	25	1/8	**	1.00	0.31	0.36	0.07	0.55	0.28	100
CB35-36-CY	#14 AWG – #6 AWG, (2) #10 AWG, (2) #12 AWG, (2) #14 AWG, (1) #10 AWG with (1) #12 AWG, (1) #12 AWG with (1) #14 AWG	50	3/16	**	1.24	0.39	0.49	0.07	0.59	0.43	
CBA70-14-CY	#14 AWG – #4 AWG	70	1/4	**	1.31	0.47	0.64	0.08	0.61	0.50	
CB70-14-CY	#8 AWG – #2 AWG, (1) #8 AWG with (1) #4 AWG, (1) #8 AWG with (1) #6 AWG	90	1/4	**	1.55	0.47	0.64	0.08	0.80	0.50	
CB125-14-QY	#6 AWG – 1/0 AWG	125	1/4	**	1.98	0.62	0.88	0.10	1.02	0.60	25
CB175-38-QY	#4 AWG – 3/0 AWG	175	3/8	3/16	2.20	0.74	1.01	0.12	1.18	0.72	
CB225-56HKR-Q	#2 AWG – 4/0 AWG	225	5/16	7/32	2.55	0.99	1.13	0.12	1.21	0.94	
CB300-38-QY	1/0 AWG – 350 kcmil	300	3/8	5/16	2.83	0.99	1.39	0.12	1.33	1.23	
CB400-38-3Y	1/0 AWG – 500 kcmil	400	3/8	5/16	4.09	1.49	1.61	0.17	2.22	1.61	3
CB650-12-3Y	600 kcmil – 1000 kcmil	650	1/2	3/8	4.84	2.00	2.32	0.25	2.44	1.85	

**Uses slotted head set screw.

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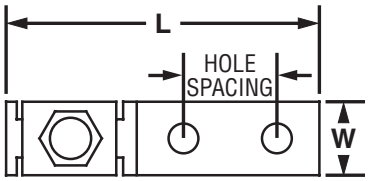
Two-Hole, Offset Floating Tongue Lug

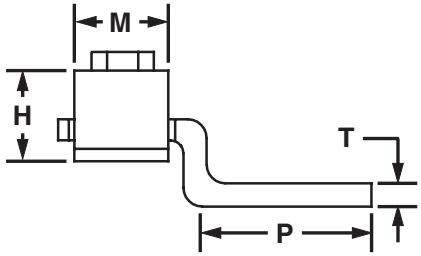
For Use with Stranded Copper Code Conductors

Type CO

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Wide wire range-taking capability minimizes inventory requirements
- Internal pressure bar and V-bottom collar provide uniform clamping force on conductor to assure positive contact between conductor and connector
- Inspection window to visually assure full conductor insertion
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V and temperature rated to 90°C where applicable
- Available with NEMA hole sizes and spacing







	Part Number	Conductor Size Range	Current Rating (Amps)	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
							L	W	H	T	P	M	
	CO35-36SL-QY	#14 AWG – #6 AWG, (2) #10 AWG, (2) #12 AWG, (2) #14 AWG, (1) #10 AWG with (1) #12 AWG, (1) #12 AWG with (1) #14 AWG	50	3/16	1.00	**	2.19	0.38	0.49	0.07	1.46	0.43	25
	CO70-14SL-QY	#12 AWG – #1 AWG, (1) #8 AWG with (1) #4 AWG, (1) #8 AWG with (1) #6 AWG	90	1/4	1.00	**	2.50	0.50	0.64	0.09	1.60	0.50	
	CO125-14SL-QY	#2 AWG – 1/0 AWG	125	1/4	1.00	**	2.97	0.63	0.88	0.13	1.87	0.60	
	CO225-56HKR-Q	#6 AWG – 4/0 AWG	225	5/16	1.00	7/32	3.62	1.00	1.13	0.13	2.28	0.94	
	CO300-38HK-3Y	#1 AWG – 350 kcmil	300	3/8	1.87	5/16	5.69	1.00	1.39	0.19	3.99	1.23	3
	CO400-38HK-3Y	1/0 AWG – 500 kcmil	400	3/8	1.75	5/16	6.00	1.50	1.61	0.19	3.79	1.41	
◆	**CO650-12HK-3Y**	600 kcmil – 1000 kcmil	650	1/2	1.75	3/8	6.25	2.00	2.32	0.25	3.68	1.85	

**Uses slotted head set screw.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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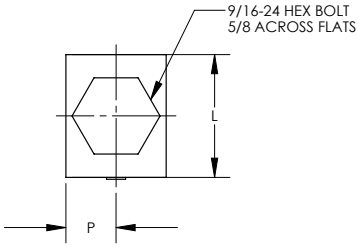
Copper Mechanical Box Lug

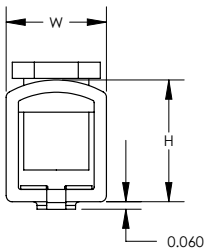
For Use with Stranded Copper Code Conductors

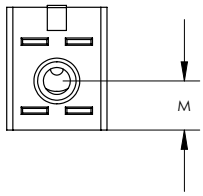
Type CCB

- Made from high strength electrolytic copper to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Anti-rotation feature on bottom of lug
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- cULus Listed for use up to 600 V









Part Number	Conductor Size Range	Mounted Hole Size (In.)	Hex Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	P	M	
CCB4/0-1AR-Q	#2 AWG - 4/0 AWG	1/4-20	5/8	1	0.817	0.99	0.41	0.4	25

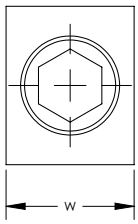
One-Hole, Single Barrel Box Lug

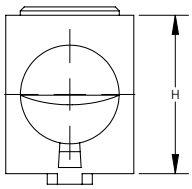
For Use with Stranded Aluminum or Copper Code Conductors

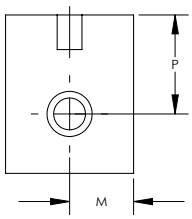
Type ACB

- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Anti-rotation feature on bottom of lug
- Plated aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Recognized and CSA Certified for use up to 600V
- CU7AL temperature rating









Part Number	Conductor Size Range	Mounting Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	P	M	
ACB250-1AR-Q	#6 AWG - 250 kcmil	1/4-20	5/16	1	0.81	1	0.63	0.4	25

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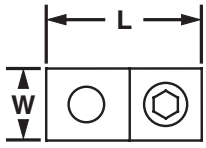
One-Hole, Single Barrel Lug

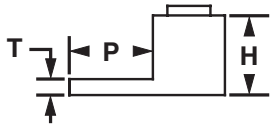
For Use with Stranded Aluminum or Copper Code Conductors

Type LAMA

- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C







Part Number	Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
				L	W	H	T	P	
LAMA6-14-QY	#14 AWG – #6 AWG	1/4	**	1.06	0.50	0.50	0.09	0.68	25
LAMA2-14-QY	#14 AWG – #2 AWG	1/4	**	1.16	0.50	0.55	0.10	0.69	
LAMA1/0-14-QY	#14 AWG – 1/0 AWG	1/4	**	1.47	0.62	0.79	0.19	0.85	
LAMA1/0-56-Q	#14 AWG – 1/0 AWG	5/16	**	1.47	0.62	0.79	0.19	0.85	
LAMA2/0-14-QY	#14 AWG – 2/0 AWG	1/4	3/16	1.47	0.62	0.79	0.19	0.85	
LAMA250-56-QY	#6 AWG – 250 kcmil	5/16	5/16	2.01	1.00	1.13	0.25	0.99	
LAMA300-56-QY	#6 AWG – 300 kcmil	5/16	5/16	2.00	1.00	1.13	0.25	1.00	
LAMA350-38-QY	#6 AWG – 350 kcmil	3/8	5/16	2.25	1.13	1.25	0.25	1.12	
LAMA500-38-6Y	#4 AWG – 500 kcmil	3/8	1/2	2.81	1.50	1.56	0.31	1.59	6
LAMA600-38-6Y	#2 AWG – 600 kcmil	3/8	1/2	3.18	1.60	1.57	0.44	1.81	
LAMA600S-38-6Y‡	#4 AWG – 600 kcmil – (2) 1/0 AWG – 250 kcmil	3/8	3/8	2.81	1.38	1.81	0.31	1.50	
LAMA1000-58-6Y	500 kcmil – 1000 kcmil	5/8	3/8	3.50	1.75	1.94	0.50	1.88	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
**Uses slotted head set screw.
‡Accommodates two conductors for conductor range 1/0 AWG – 250 kcmil.

Order number of pieces required, in multiples of Standard Package Quantity.

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Two-Hole, Single Barrel Lug

For Use with Stranded Aluminum or Copper Code Conductors

Type LAMB

- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- LAMLB provided with dual set screws for premium clamping of conductor to connector for heavy duty applications
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing



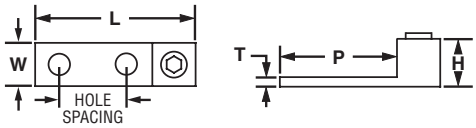


Figure 1

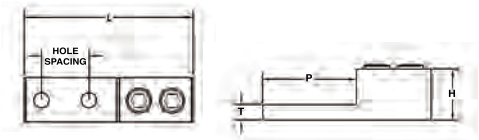


Figure 2

	Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
							L	W	H	T	P	
◆	**LAMB350-12-6Y**	1	#6 AWG – 350 kcmil	1/2	1.75	5/16	4.19	1.13	1.28	0.28	3.05	6
◆	**LAMB600-12-3Y**	1	#2 AWG – 600 kcmil	1/2	1.75	1/2	4.69	1.60	1.57	0.44	3.31	3
◆	**LAMLB1000-12-3**	2	500 – 1000 kcmil	1/2	1.75	1/2	6.19	1.63	1.88	0.56	3.44	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
◆NEMA hole sizes and spacing.

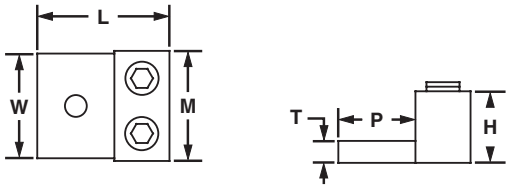
One-Hole, Two-Barrel Lug

For Use with Stranded Aluminum or Copper Code Conductors

Type LAM2A

- Dual barrel provides termination of two conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing





Part Number	Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
				L	W	H	T	P	M	
LAM2A1/0-14-6Y	#14 AWG – 1/0 AWG	1/4	**	1.47	1.13	0.78	0.19	0.85	1.13	6
LAM2A2/0-14-6Y	#14 AWG – 2/0 AWG	1/4	3/16	1.47	1.20	0.78	0.19	0.85	1.20	
LAM2A250-38-6Y	#6 AWG – 250 kcmil	3/8	3/8	2.56	1.50	1.19	0.25	1.56	1.64	
LAM2A350-12-6Y	#6 AWG – 350 kcmil	1/2	5/16	2.87	1.73	1.25	0.25	1.74	1.91	
LAM2A600-12-6Y	#2 AWG – 600 kcmil	1/2	3/8	3.19	2.00	1.56	0.44	1.81	2.38	
LAM2A1000-58-6Y	500 kcmil – 1000 kcmil	5/8	3/8	3.50	3.50	1.94	0.50	1.88	3.50	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
**Uses slotted head set screw.

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One-Hole, Vertical Two-Barrel Lug

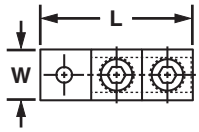
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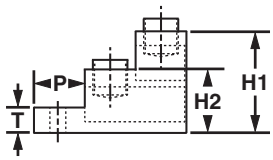
For Use with Stranded Aluminum or Copper Code Conductors

Type LAM2SA

- Dual barrel provides termination of two conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C







Part Number	Conductor Size Range	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
				L	W	H1	H2	T	P	
LAM2SA300-56-3	#6 AWG – 300 kcmil	5/16	5/16	3.00	1.00	2.00	1.25	0.50	1.00	3
LAM2SA300-38-3	#6 AWG – 300 kcmil	3/8	5/16	3.00	1.00	2.00	1.25	0.50	1.00	

The use of Panduit® oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.

Two-Hole, Two-Barrel Lug

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For Use with Stranded Aluminum or Copper Code Conductors

Type LAM2B

- Dual barrel provides termination of two conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- LAM2LB connector provided with dual set screws for premium clamping of conductor to connector for heavy duty applications
- UL Listed and CSA certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing



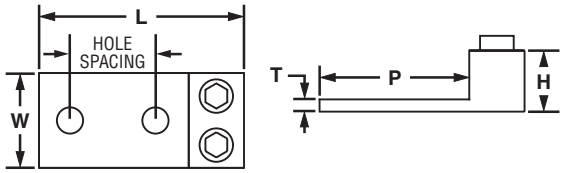


Figure 1

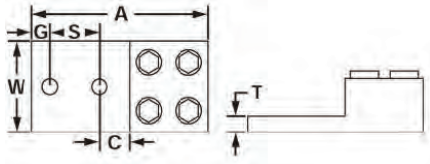


Figure 2

	Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
							L	W	H	T	P	
◆	**LAM2B350-12-3Y**	1	#6 AWG – 350 kcmil	1/2	1.75	5/16	4.19	1.91	1.28	0.25	3.06	3
◆	**LAM2LB600-12-3**	2	#2 AWG – 600 kcmil			3/8	5.50	2.85	1.50	0.38	3.25	
◆	**LAM2LB1000-12-3**	2	500 – 1000 kcmil			1/2	6.19	3.48	1.88	0.56	3.44	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
◆NEMA hole sizes and spacing.

Order number of pieces required, in multiples of Standard Package Quantity.

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Two-Hole, Vertical Two-Barrel Lug

For Use with Stranded Aluminum or Copper Code Conductors

Type LAM2SB

- Dual barrel provides termination of two conductors
- Vertical configuration saves space
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C



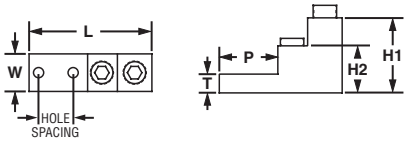


Figure 1

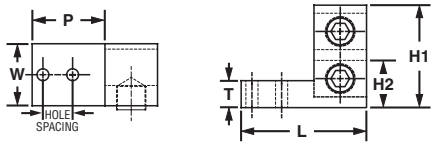


Figure 2

Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
						L	W	H1	H2	T	P	
LAM2SB600-38-1Y	1	#2 AWG – 600 kcmil	3/8	1.38	3/8	4.91	1.50	3.00	1.88	0.75	2.34	1
LAM2SB750-38-1Y	1	1/0 AWG – 750 kcmil	3/8	1.38	3/8	4.91	1.50	3.00	1.88	0.75	2.34	
LAM2SSB500-141Y	2	4/0 AWG – 500 kcmil	1/4	0.69	1/2	2.91	1.44	2.38	1.77	0.63	1.69	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.

Two-Hole, Three-Barrel Lug

For Use with Stranded Aluminum or Copper Code Conductors

Type LAM3B

- Triple barrel provides termination of three conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- LAM3LB connector is provided with dual set screws to allow premium clamping of conductor to connector for heavy duty applications
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing



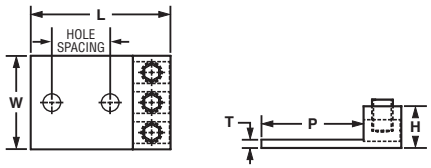


Figure 1

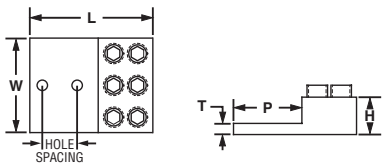


Figure 2

	Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
							L	W	H	T	P	
	LAM3B2-14-6Y*	1	#14 AWG – #2 AWG	1/4	0.87	**	2.49	1.63	0.47	0.19	2.03	6
	LAM3B1/0-38-6Y	1	#14 AWG – 1/0 AWG	3/8	1.00	**	2.91	2.00	0.88	0.25	2.16	
◆	**LAM3B3/0-12-3Y**	1	#6 AWG – 3/0 AWG	1/2	1.75	1/4	4.25	2.81	1.19	0.31	3.25	3
◆	**LAM3B250-12-1Y**	1	#6 AWG – 250 kcmil	1/2	1.75	5/16	4.00	2.82	1.19	0.31	3.00	1
◆	**LAM3B350-12-1Y**	1	#6 AWG – 350 kcmil			5/16	4.50	3.50	1.38	0.31	3.25	
◆	**LAM3LB600-12-1**	2	#2 AWG – 600 kcmil			3/8	5.50	4.32	1.50	0.38	3.25	
◆	**LAM3LB1000-121Y**	2	500 kcmil – 1000 kcmil			1/2	6.19	5.27	1.88	0.56	3.44	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
◆NEMA hole sizes and spacing.
*cULus Listed
**Uses slotted head set screw

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Four-Hole, Three-Barrel Lug

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For Use with Stranded Aluminum or Copper Code Conductors

Type LAM3D

- Triple barrel provides termination of three conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- LAM3LD connector is provided with dual set screws to allow premium clamping of conductor to connector for heavy duty applications
- UL Listed and CSA certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing



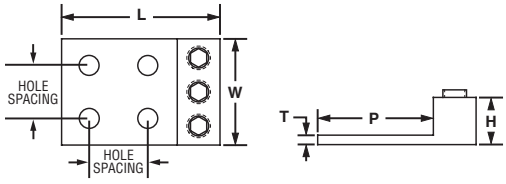


Figure 1

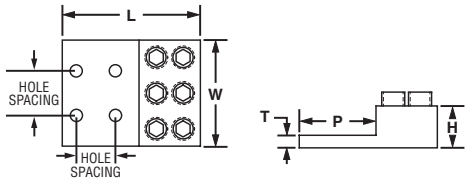


Figure 2

	Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
							L	W	H	T	P	
◆	LAM3D3/0-12-3Y	1	#6 AWG – 3/0 AWG	1/2	1.75	1/4	4.25	2.81	1.19	0.31	3.25	3
◆	LAM3D250-12-1Y	1	#6 AWG – 250 kcmil	1/2	1.75	5/16	4.25	3.00	1.19	0.31	3.25	1
◆	LAM3D350-12-1Y	1	#6 AWG – 350 kcmil			5/16	4.50	3.50	1.38	0.31	3.25	
◆	LAM3LD600-12-1	2	#2 AWG – 600 kcmil			3/8	5.50	4.32	1.50	0.38	3.25	
◆	LAM3LD1000-121Y	2	500 kcmil – 1000 kcmil			1/2	6.19	5.27	1.88	0.56	3.44	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
◆NEMA hole sizes and spacing.

Two-Hole, Vertical Four-Barrel Lug

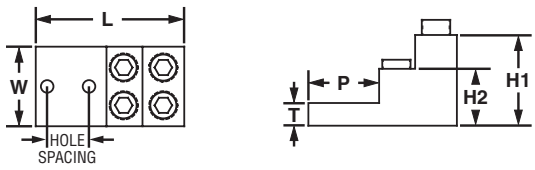
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For Use with Stranded Aluminum or Copper Code Conductors

Type LAM4SB

- Four barrels provide termination of four conductors
- Vertical configuration saves space
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C





Part Number	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)						Std. Pkg. Qty.
					L	W	H1	H2	T	P	
LAM4SB600-38-1Y	#2 AWG – 600 kcmil	3/8	1.38	3/8	4.91	2.47	3.00	1.88	0.75	2.34	1
LAM4SB750-38-1Y	1/0 AWG – 750 kcmil			3/8	4.91	2.84	3.00	1.88	0.75	2.34	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.

Order number of pieces required, in multiples of Standard Package Quantity.

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Four-Hole, Four-Barrel Lug

For Use with Stranded Aluminum or Copper Code Conductors

Type LAM4D

- Four barrels provide termination of four conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- LAM4LD connector is provided with dual set screws to allow premium clamping of conductor to connector for heavy duty applications
- UL Listed and CSA certified for use up to 600 V and temperature rated 90°C
- Available with NEMA hole sizes and spacing



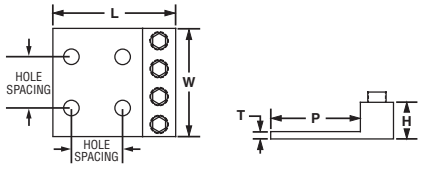


Figure 1

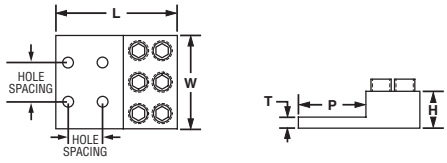


Figure 2

	Part Number	Figure No.	Conductor Size Range	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Hex Key Size (In.)	Figure Dimensions (In.)					Std. Pkg. Qty.
							L	W	H	T	P	
◆	**LAM4D250-12-1Y**	1	#6 AWG – 250 kcmil	1/2	1.75	5/16	4.25	4.04	1.19	0.31	3.25	1
◆	**LAM4D350-12-1Y**	1	#6 AWG – 350 kcmil			5/16	4.50	4.72	1.37	0.31	3.25	
◆	**LAM4LD600-12-1**	2	#2 – 600 kcmil			3/8	5.50	5.31	1.50	0.38	3.25	
◆	**LAM4LD1000-12-1**	2	350 – 1000 kcmil			3/8	6.19	7.11	1.88	0.56	3.44	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.
◆NEMA hole sizes and spacing.

Transformer Lug Kit

For Use with Stranded Aluminum or Copper Code Conductors

Type KLM

- Kits include all of the connectors and hardware to make a complete transformer connection in a single convenient package
- Lugs are made from high strength, extruded aluminum alloy and are tin-plated to inhibit corrosion and oxidation
- Plated steel cap screws, belleville and flat washers, and hex nuts are provided to assure that terminal to bus connections are made using proper hardware resulting in true torque to pressure performance
- Hardware is packaged in a sealed plastic bag to prevent lost hardware prior to installation
- Lugs are UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C



Part Number	Transformer KVA Rating	Aluminum Mechanical Lug		Conductor Size Range	Hardware (Sizes in Inches)					
		Part No.	Qty.		Hex Bolt Size	Qty.	Nut Size	Qty.	Washer Size	Qty.
KLM14-250Y	15 – 37.5 KVA 1PH 15 – 45 KVA 3PH	LAMA2-14 LAMA250-56	8 4	#14 – 2 AWG #6 AWG – 250 kcmil	1/4 – 20 x 3/4 HH	8	1/4 – 20 HN	8	1/4 FLAT 1/4 CMP	16 8
KLM6-250Y	50 – 75 KVA 1 PH 75 – 112.5 KVA 3 PH	LAMA250-56	12	#6 AWG – 250 kcmil	1/4 – 20 x 3/4 HH 1/4 – 20 x 2 HH	8 8	1/4 – 20 HN	16	1/4 FLAT 1/4 CMP	32 16
KLM6-600Y	100 – 167 KVA 1PH 150 – 300 KVA 3 PH	LAMA250-56 LAMA600-38	3 3	#6 AWG – 250 kcmil #4 AWG – 600 kcmil	1/4 – 20 x 3/4 HH 3/8 – 16 x 2 HH	3 16	1/4 – 20 HN 3/8 – 16 HN	3 16	3/8 FLAT 1/4 FLAT 3/8 CMP 1/4 CMP	32 6 16 3

Suffix: HH = Hex Head; HN = Hex Nut; FLAT = Flat Washer; CMP = Compression Washer.
The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended for pad to pad and conductor connections. See page D2.99.

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Splicer/Reducer

For Use with Stranded Aluminum or Copper Code Conductors

Type SR

- Made from high strength extruded aluminum alloy to provide premium electrical and mechanical performance
- Tin-plated to inhibit corrosion
- Rounded bottoms to facilitate taping
- Solid center barrier prevents contact of dissimilar metal conductors
- Wide wire range-taking capability minimizes inventory requirements
- UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C



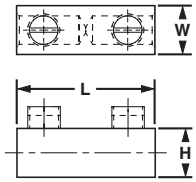


Figure 1

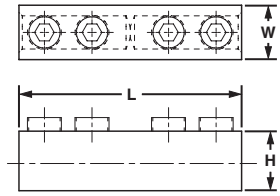


Figure 2

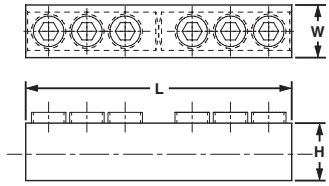


Figure 3

Part Number	Figure No.	Conductor Size Range		Figure Dimensions (In.)			Hex Key Size (In.)	Std. Pkg. Qty.
		Max.	Min.	L	W	H		
SR-2-XY	1	#2 AWG STR, #10 AWG SOL	#14 AWG STR, #14 AWG SOL	1.38	0.50	0.56	**	10
SR-0-XY	1	1/0 AWG STR, #10 AWG SOL	#14 AWG STR, #14 AWG SOL	1.91	0.75	0.75	**	
SR-4/0-XY*	1	4/0 AWG	#6 AWG	2.31	1.00	1.13	5/16	
SR-250-XY	2	250 kcmil	#6 AWG	3.94	1.00	1.13	5/16	
SR-350-XY	2	350 kcmil	#6 AWG	4.19	1.13	1.19	5/16	
SR-500-3Y	2	500 kcmil	3/0 AWG	5.00	1.37	1.40	3/8	3
SR-750-1Y	2	750 kcmil	250 kcmil	6.25	1.63	1.75	1/2	1
SR-1000-1Y	3	1000 kcmil	500 kcmil	8.69	1.72	1.88	9/16	

The use of Panduit oxide inhibiting joint compound (CMP-100) is recommended. See page D2.99.
*Not CSA certified.
**Uses slotted screws.

Order number of pieces required, in multiples of Standard Package Quantity.

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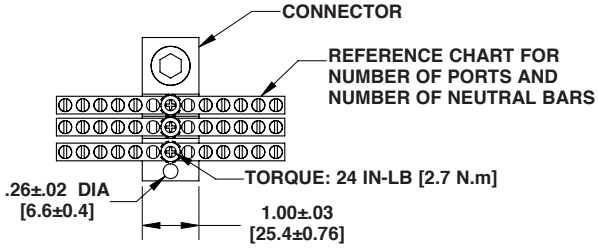
Neutral Bar

For Use with Stranded Aluminum or Copper Code Conductors

Type NBA

- Made from high strength extruded aluminum alloy to provide premium electrical and mechanical performance
- Compact design saves space
- Wide wire range-taking capability minimizes inventory requirements
- Multiple wire port configurations available to meet application needs
- Neutral bars pre-assembled to main connector
- Plated aluminum set screw provides high strength, durable electrical contact between conductor and connector
- Plated steel zinc plated screws for neutral bars provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600V
- CU9AL temperature rating





Part Number	Main Connector/ Nuetral Bar Aluminum or Copper Conductor Size Range	# of Neutral Bars/ # of Ports	Figure Dimensions									Neutral Bar Install Tool	Std. Pkg. Qty.
			L	W	H	Tongue Width	Stud Hole Size (In.)	Hex Key Size (In.)	Main Connector Mounting Hole Size	Mounting Hole Spacing A	Mounting Hole Spacing B		
NBA350-12	#6 AWG - 350 kcmil SOL/STR #14 AWG - #4 AWG SOL/STR	1 12	2.53	4.77	1.13	1	1/4	–	#10-32	0.53	–	Phillips Screwdriver	1
NBA350-24		2 12	2.53	4.77	1.13			–	#10-32	0.53	–		
NBA350-30		3 10	2.53	4.15	1.13			–	#10-32	0.53	–		
NBA350-36		3 12	2.53	4.77	1.13			–	#10-32	0.53	–		
NBA350-42		3 14	2.53	5.39	1.13			–	#10-32	0.53	–		

Isolator Stand-Off Kit

For Use with NBA350 Neutral Bars

TYPE NBISO-KIT

- Made from Black Fiberglass Reinforced Nylon
- Material Meets UL94-SVA Flame Rating
- Includes Two # 10-32 x 1/2" Mounting Scres with External Tooth Lockwashers



Part Number	L	W	H	Hole Spacing	Slot Size
NBISO-KIT	2.5	2.5	1	–	–

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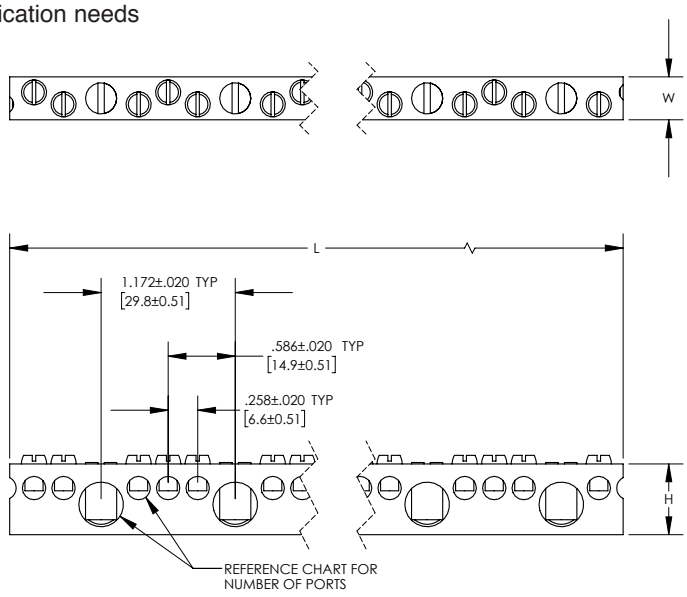
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Neutral Bar

For Use with Stranded Aluminum or Copper Code Conductors

Type NBA1/0-120

- Made from high strength extruded aluminum alloy to provide premium electrical and mechanical performance
- Bar can be cut into segments to meet application length requirements
- Wide wire range-taking capability minimizes inventory requirements
- Multiple wire port configurations available to meet application needs
- Neutral bar can be mounted to NBBRACKET steel bracket accessory
- Plated steel zinc plated screws for neutral bars provides high strength, durable electrical contact between conductor and connector
- UL Recognized and CSA Certified for use up to 600
- CU9AL temperature rating



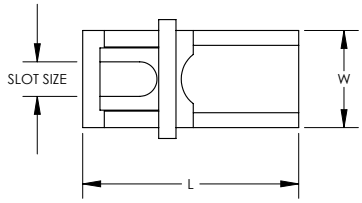
Part Number	Large Wire Port Aluminum or Copper Conductor Size Range	# of Large Wire Ports	# of Small Wire Ports	Figure Dimensions			Neutral Bar Install Tool	Std. Pkg. Qty.
				L	W	H		
NBA1/0-120	#14 AWG - 1/0 AWG SOL/STR	30	90	35.33	0.38	0.62	Slotted Screwdriver	1

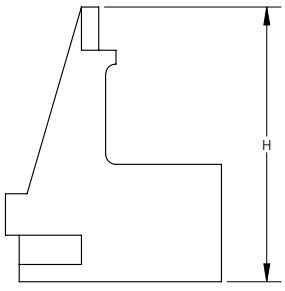
Neutral Bar Bracket

For Use with NBA1/0-120 Neutral Bar

Type NBBRACKET

- Made from Black Reinforced PBT
- Material Meets UL94-SVA Flame Rating
- Includes Two Plastic Mounting Brackets
- Bracket Mounting Slots Accommodate #10 Mounting Hardware (not included)





Part Number	L	W	H	Slot Size
NBBRACKET	1.25	0.56	1.59	0.2

Order number of pieces required, in multiples of Standard Package Quantity.

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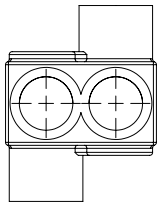
Multi-Tap Connector with Clear PVC Insulation, Alternate Port

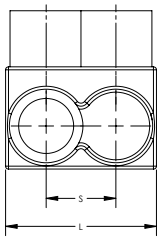
For Use with Aluminum or Copper Code Conductors

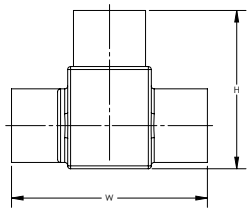
Type PCSB-AP

- Flexible design can be used as a tap, splice or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90 C









Part Number	Copper and Aluminum Conductor Size Range	# of Ports	Figure Dimensions					Std. Pkg. Qty.
			L	W	H	S	Hex Key Size (In.)	
PCSB250-AP-6	#10 AWG - 250 kcmil	2	2.03	2.64	2.13	0.94	5/16	6
PCSB600-AP-4	# 6 AWG - 600 kcmil	2	2.72	3	2.75	1.28	3/8	4

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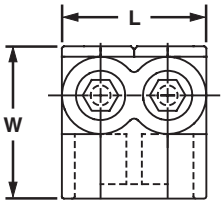
Multi-Tap Connector with Clear Insulation, Single-Sided

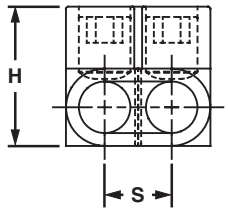
For Use with Aluminum or Copper Code Conductors

Type PCSB-S

- Flexible design – can be used as a tap, splice, or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C*







Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
PCSB4-2S-12Y	#4 – #14 AWG STR #10 – #14 AWG SOL	2	1.23	1.25	1.25	0.53	1/8	12
PCSB4-3S-12Y		3	1.76	1.25	1.25	0.53		
PCSB4-4S-6Y		4	2.29	1.25	1.25	0.53		6
PCSB4-5S-6Y		5	2.82	1.25	1.25	0.53		
PCSB4-6S-6Y		6	3.35	1.25	1.25	0.53		
PCSB4-10S-4Y		10	5.47	1.25	1.25	0.53		4
PCSB4-12S-3Y		12	6.53	1.25	1.25	0.53		3
PCSB4-14S-2Y		14	7.59	1.25	1.25	0.53		2
PCSB2/0-2S-6	2/0 – #14 AWG STR #10 – #14 AWG SOL	2	1.52	1.31	1.38	0.67	3/16	6
PCSB2/0-3S-6Y		3	2.19	1.31	1.38	0.67		
PCSB2/0-4S-6Y		4	2.86	1.31	1.38	0.67		
PCSB2/0-5S-4Y		5	3.53	1.31	1.38	0.67		4
PCSB2/0-6S-4Y		6	4.20	1.31	1.38	0.67		
PCSB2/0-8S-3Y		8	5.55	1.31	1.38	0.67		3
PCSB2/0-10S-2Y		10	6.89	1.31	1.38	0.67		2
PCSB2/0-12S-1Y		12	8.24	1.31	1.38	0.67		1
PCSB2/0-14S-1Y		14	9.58	1.31	1.38	0.67		
PCSB250-2S-6Y	250 kcmil – #10 AWG STR	2	2.03	2.00	2.13	0.94	5/16	6
PCSB250-3S-6Y		3	2.97	2.00	2.13	0.94		
PCSB250-4S-6Y		4	3.91	2.00	2.13	0.94		
PCSB250-5S-4Y		5	4.84	2.00	2.13	0.94		4
PCSB250-6S-4Y		6	5.78	2.00	2.13	0.94		
PCSB250-8S-3Y		8	7.66	2.00	2.13	0.94		3
PCSB250-10S-2Y		10	9.53	2.00	2.13	0.94		2
PCSB250-12S-2Y		12	11.41	2.00	2.13	0.94		
PCSB250-14S-1Y		14	13.29	2.00	2.13	0.94		1
PCSB350-2S-4Y	350 kcmil – #10 AWG STR	2	2.17	2.25	2.50	1.00	5/16	4
PCSB350-3S-4Y		3	3.17	2.25	2.50	1.00		
PCSB350-4S-3Y		4	4.17	2.25	2.50	1.00		3
PCSB350-5S-3Y		5	5.17	2.25	2.50	1.00		
PCSB350-6S-2Y		6	6.17	2.25	2.50	1.00		2
PCSB350-8S-2Y		8	8.17	2.25	2.50	1.00		
PCSB350-10S-2Y		10	10.17	2.25	2.50	1.00		
PCSB350-12S-1Y		12	12.17	2.25	2.50	1.00		1
PCSB350-14S-1Y		14	14.17	2.25	2.50	1.00		

Order number of pieces required, in multiples of Standard Package Quantity.

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Multi-Tap Connector with Clear Insulation, Single-Sided (continued)

Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
PCSB600-2S-4Y	600 kcmil – #6 AWG STR	2	2.72	2.25	2.75	1.28	3/8	4
PCSB600-3S-3Y		3	4.00	2.25	2.75	1.28		3
PCSB600-4S-2Y		4	5.28	2.25	2.75	1.28		2
PCSB600-5S-2Y		5	6.56	2.25	2.75	1.28		
PCSB600-6S-2Y		6	7.84	2.25	2.75	1.28		
PCSB600-8S-2Y		8	10.41	2.25	2.75	1.28		
PCSB600-10S-1Y		10	12.97	2.25	2.75	1.28		1
PCSB600-12S-1Y		12	15.93	2.25	2.75	1.28		
PCSB600-14S-1Y		14	18.09	2.25	2.75	1.28		
PCSB750-2S-1	750 kcmil – #2 AWG STR	2	2.88	2.63	3.00	1.38		

*PCSB750-2S-1 is not UL Listed or CSA Certified.

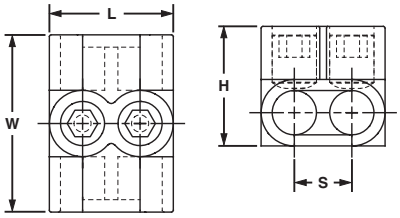
Multi-Tap Connector with Clear Insulation, Double-Sided

For Use with Aluminum or Copper Code Conductors

Type PCSB

- Flexible design – can be used as a tap, splice, or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Dual-sided entry allows offset and opposite entry for primary and secondary conductors
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C





Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
PCSB4-2-12Y	#4 – #14 AWG STR #10 – #14 AWG SOL	2	1.23	1.50	1.25	0.53	1/8	12
PCSB4-3-12Y		3	1.76	1.50	1.25	0.53		
PCSB4-4-6Y		4	2.29	1.50	1.25	0.53		6
PCSB4-5-6Y		5	2.82	1.50	1.25	0.53		
PCSB4-6-6Y		6	3.35	1.50	1.25	0.53		
PCSB4-8-4Y		8	4.41	1.50	1.25	0.53		4
PCSB4-10-4Y		10	5.47	1.50	1.25	0.53		
PCSB4-12-3Y		12	6.53	1.50	1.25	0.53		3
PCSB4-14-2Y		14	7.59	1.50	1.25	0.53		2
PCSB2/0-2-12	2/0 – #14 AWG STR #10 – #14 AWG SOL	2	1.52	1.56	1.38	0.67	3/16	12
PCSB2/0-3-6		3	2.19	1.56	1.38	0.67		6
PCSB2/0-4-6		4	2.86	1.56	1.38	0.67		
PCSB2/0-5-6		5	3.53	1.56	1.38	0.67		
PCSB2/0-6-6		6	4.20	1.56	1.38	0.67		
PCSB2/0-8-4		8	5.55	1.56	1.38	0.67		4
PCSB2/0-10-2Y		10	6.89	1.56	1.38	0.67		2
PCSB2/0-12-2Y		12	8.24	1.56	1.38	0.67		

Continued on next page

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Multi-Tap Connector with Clear Insulation, Double-Sided (continued)

Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
PCSB2/0-14-1Y	250 kcmil – #10 AWG STR	14	9.58	1.56	1.38	0.67	3/16	1
PCSB250-2-6Y		2	2.03	2.63	2.13	0.94	5/16	6
PCSB250-3-6Y		3	2.97	2.63	2.13	0.94		
PCSB250-4-6Y		4	3.91	2.63	2.13	0.94		
PCSB250-5-4Y		5	4.84	2.63	2.13	0.94		4
PCSB250-6-4Y		6	5.78	2.63	2.13	0.94		
PCSB250-8-3Y		8	7.66	2.63	2.13	0.94		3
PCSB250-10-2Y		10	9.53	2.63	2.13	0.94		2
PCSB250-12-2Y		12	11.41	2.63	2.13	0.94		
PCSB250-14-1Y		14	13.29	2.63	2.13	0.94		1
PCSB350-2-4	350 kcmil – #10 AWG STR #10 AWG SOL	2	2.17	3.00	2.50	1.00	3/8	4
PCSB350-3-4		3	3.17	3.00	2.50	1.00		
PCSB350-4-3		4	4.17	3.00	2.50	1.00		3
PCSB350-5-3		5	5.17	3.00	2.50	1.00		
PCSB350-6-2		6	6.17	3.00	2.50	1.00		2
PCSB350-8-2		8	8.17	3.00	2.50	1.00		
PCSB350-10-2Y		10	10.17	3.00	2.50	1.00	5/16	2
PCSB350-12-1Y		12	12.17	3.00	2.50	1.00		1
PCSB350-14-1Y		14	14.17	3.00	2.50	1.00		
PCSB600-2-4Y	600 kcmil – #6 AWG STR	2	2.72	3.00	2.75	1.28	3/8	4
PCSB600-3-3Y		3	4.00	3.00	2.75	1.28		3
PCSB600-4-2Y		4	5.28	3.00	2.75	1.28		2
PCSB600-6-2Y		6	7.84	3.00	2.75	1.28		
PCSB600-8-2Y		8	10.41	3.00	2.75	1.28		
PCSB600-10-1Y		10	12.97	3.00	2.75	1.28		1
PCSB600-12-1Y		12	15.53	3.00	2.75	1.28		
PCSB600-14-1Y		14	18.09	3.00	2.75	1.28		
PCSB750-2-2Y‡‡	750 kcmil – #2 AWG STR	2	2.88	3.38	3.00	1.38	3/8	2
PCSB750-3-2Y‡‡		3	4.25	3.38	3.00	1.38		
PCSB750-4-2Y‡‡		4	5.63	3.38	3.00	1.38		
PCSB750-5-1Y‡‡		5	7.00	3.38	3.00	1.38		1
PCSB750-6-1Y‡‡		6	8.38	3.38	3.00	1.38		
PCSB750-8-1Y‡‡		8	11.13	3.38	3.00	1.38		
PCSB750-10-1Y‡‡		10	13.88	3.38	3.00	1.38		

‡‡Not UL Listed or CSA Certified.

Order number of pieces required, in multiples of Standard Package Quantity.

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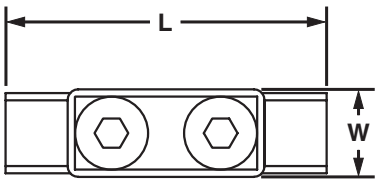
In-Line Splicer/Reducer with Clear Insulation

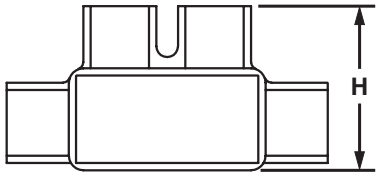
For Use with Aluminum or Copper Code Conductors

Type PISR

- Flexible design – can be used as a splice or reducer
- Dual rated for use with copper or aluminum conductors
- Made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and UL temperature rated 90°C







Part Number	Conductor Size Range	Figure Dimensions (In.)			Std. Pkg. Qty.
		L	W	H	
PISR2-1	#2 AWG STR – #14 AWG STR, #8 AWG SOL – #10 AWG SOL	2.38	0.75	1.25	1
PISR1/0-1	1/0 AWG STR – #14 AWG STR, #8 AWG SOL – #14 AWG SOL	2.91	0.95	1.41	
PISR250-1	250 kcmil – #10 AWG STR, #8 AWG SOL – #10 AWG SOL	4.00	1.25	2.24	
PISR350-1	350 kcmil – #10 AWG STR, #8 AWG SOL – #10 AWG SOL	4.63	1.40	2.34	
PISR500-1	500 kcmil – #6 AWG STR	5.25	1.72	2.63	

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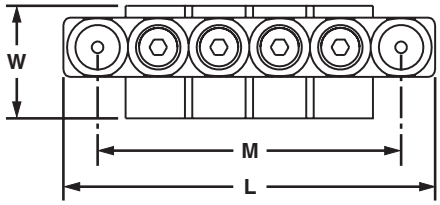
Multi-Tap Connector with Clear Insulation, Single-Sided, with Mounting Holes

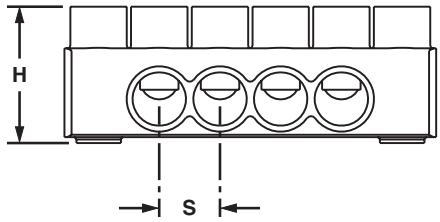
For Use with Aluminum or Copper Code Conductors

Type PCSBMT-S

- Flexible design – can be used as a tap, splice, or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Two isolated mounting holes at either end of connector facilitate direct mounting using 1/4" bolts
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C







Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)					Mounting Hole Size (In.)	Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S	M			
PCSBMT2/0-4S-3Y	2/0 – #14 AWG STR #10 – #14 AWG SOL	4	4.20	1.31	1.50	0.67	3.61	1/4	3/16	3
PCSBMT2/0-6S-2Y		6	5.55	1.31	1.50	0.67	4.96			2
PCSBMT2/0-8S-2Y		8	6.89	1.31	1.50	0.67	6.30			
PCSBMT2/0-10S2Y		10	8.24	1.31	1.50	0.67	7.65			
PCSBMT2/0-12S1Y		12	9.58	1.31	1.50	0.67	8.99			1
PCSBMT250-4S-2Y	250 kcmil – #10 AWG STR	4	5.78	2.00	2.25	0.94	4.94	1/4	5/16	2
PCSBMT250-6S-2Y		6	7.66	2.00	2.25	0.94	6.82			
PCSBMT250-8S-2Y		8	9.53	2.00	2.25	0.94	8.69			
PCSBMT250-10S2Y		10	11.41	2.00	2.25	0.94	10.57			
PCSBMT250-12S1Y		12	13.29	2.00	2.25	0.94	12.45			1
PCSBMT350-4S-2Y	350 kcmil – #10 AWG STR	4	6.17	2.25	2.63	1.00	5.25	1/4	5/16	2
PCSBMT350-6S-2Y		6	8.17	2.25	2.63	1.00	7.25			
PCSBMT350-8S-2Y		8	10.17	2.25	2.63	1.00	9.25			
PCSBMT350-10S1Y		10	12.17	2.25	2.63	1.00	11.25			1
PCSBMT350-12S1Y		12	14.17	2.25	2.63	1.00	13.25			
PCSBMT600-4S-2Y	600 kcmil – #6 AWG STR	4	7.84	2.25	2.88	1.28	6.65	1/4	3/8	2
PCSBMT600-6S-2Y		6	10.41	2.25	2.88	1.28	9.22			
PCSBMT600-8S-2Y		8	12.97	2.25	2.88	1.28	11.78			
PCSBMT600-10S1Y		10	15.53	2.25	2.88	1.28	14.34			1
PCSBMT600-12S1Y		12	18.09	2.25	2.88	1.28	16.90			

Order number of pieces required, in multiples of Standard Package Quantity.

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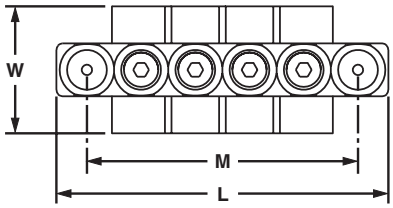
Multi-Tap Connector with Clear Insulation, Double-Sided, with Mounting Holes

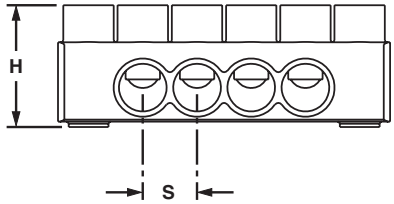
For Use with Aluminum or Copper Code Conductors

Type PCSBMT

- Flexible design – can be used as a tap, splice, or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Two isolated mounting holes at either end of connector facilitate direct mounting using 1/4" bolts
- Insulated with clear PVC to eliminate the need for taping and allow for visual inspection of the complete conductor insertion
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Dual-sided entry allows offset and opposite entry for primary and secondary conductors
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C







Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)					Mounting Hole Size (In.)	Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S	M			
PCSBMT2/0-4-3Y	2/0 – #14 AWG STR, #10 – #14 AWG SOL	4	4.20	1.56	1.50	0.67	3.61	1/4	3/16	3
PCSBMT2/0-6-2Y		6	5.55	1.56	1.50	0.67	4.96			2
PCSBMT2/0-8-2Y		8	6.89	1.56	1.50	0.67	6.30			
PCSBMT2/0-10-2Y		10	8.24	1.56	1.50	0.67	7.65			
PCSBMT2/0-12-1Y		12	9.58	1.56	1.50	0.67	8.99			1
PCSBMT250-4-2Y	250 kcmil – #10 AWG STR	4	5.78	2.63	2.26	0.94	4.94	1/4	5/16	2
PCSBMT250-6-2Y		6	7.66	2.63	2.26	0.94	6.82			
PCSBMT250-8-2Y		8	9.53	2.63	2.26	0.94	8.69			
PCSBMT250-10-2Y		10	11.41	2.63	2.26	0.94	10.57			
PCSBMT250-12-1Y		12	13.29	2.63	2.26	0.94	12.45			1
PCSBMT350-4-2Y	350 kcmil – #10 AWG STR	4	6.17	3.00	2.63	1.00	5.25	1/4	5/16	2
PCSBMT350-6-2Y		6	8.17	3.00	2.63	1.00	7.25			
PCSBMT350-8-2Y		8	10.17	3.00	2.63	1.00	9.25			
PCSBMT350-10-1Y		10	12.17	3.00	2.63	1.00	11.25			1
PCSBMT350-12-1Y		12	14.17	3.00	2.63	1.00	13.25			
PCSBMT600-4-2Y	600 kcmil – #6 AWG STR	4	7.84	3.00	2.88	1.28	6.65	1/4	3/8	2
PCSBMT600-6-2Y		6	10.41	3.00	2.88	1.28	9.22			
PCSBMT600-8-2Y		8	12.97	3.00	2.88	1.28	11.78			
PCSBMT600-10-1Y		10	15.53	3.00	2.88	1.28	14.34			1
PCSBMT600-12-1Y		12	18.09	3.00	2.88	1.28	16.90			

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Mult-Tap Connector with Black PVC Insulation, Alternate Port

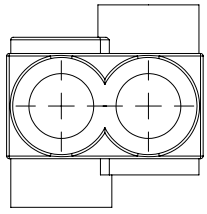
LISTED CERTIFIED

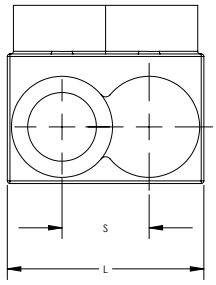
For Use with Aluminum or Copper Code Conductors

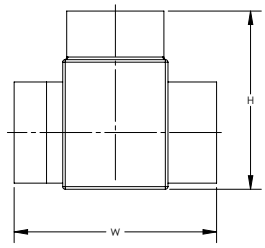
Type BLKPSB-AP

- Flexible design can be used as a tap, splice or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with black PVC to eliminate the need for taping, UV-1 rating, indoor use only
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C









Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
BLKPSB4-AP-12	#14 AWG - #4 AWG STR #14 AWG - #10 AWG SOL	2	1.08	1.50	1.25	0.44	1/8	12
BLKPSB2/0-AP-12	#14 AWG - #2/0 AWG STR #14 AWG - #10 AWG SOL		1.52	1.56	1.38	0.67	3/16	

Mult-Tap Connector with Black PVC Insulation, Single-Sided

LISTED CERTIFIED

For Use with Aluminum or Copper Code Conductors

Type BLKPSB-S

- Flexible design can be used as a tap, splice or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with black PVC to eliminate the need for taping, UV-1 rating, indoor use only
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Plated steel set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C



Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
BLKPSB4-2S-12	#14 AWG - #4 AWG STR. #14 AWG - #10 AWG SOL	2	1	1.13	1.25	0.44	1/8	12

Order number of pieces required, in multiples of Standard Package Quantity.

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LISTED CERTIFIED

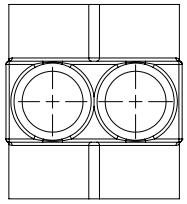
Mult-Tap Connector with Black PVC Insulation, Double-Sided

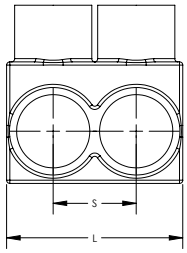
For Use with Aluminum or Copper Code Conductors

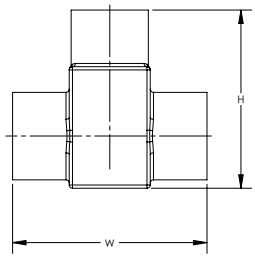
Type BLKPSB

- Flexible design can be used as a tap, splice or dead end connector
- Body made from high strength, extruded aluminum alloy to provide premium electrical and mechanical performance
- Insulated with black PVC to eliminate the need for taping, UV-1 rating, indoor use only
- Each port pre-filled with oxide inhibiting joint compound seals out air and moisture to deter surface oxidation
- Wide wire range-taking capability minimizes inventory requirements
- Dual-sided entry allows offset and opposite entry for primary and secondary conductors
- Plated aluminum set screw provides high strength, durable electrical contact between conductor and connector
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C









Part Number	Conductor Size Range	No. of Ports	Figure Dimensions (In.)				Hex Key Size (In.)	Std. Pkg. Qty.
			L	W	H	S		
BLKPSB250-3-6	#10 AWG - 250 kcmil	3	2.97	2.64	2.13	0.94	5/16	6
BLKPSB600-2-4	#6 AWG - 600 kcmil	2	2.72	3	2.75	1.28	3/8	4

Joint Compounds

For Use with Aluminum Connectors

Type CMP

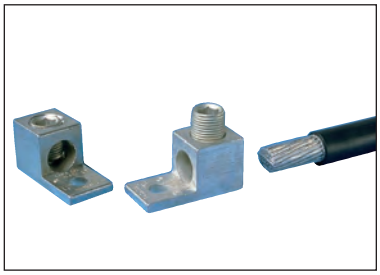
- Oxide inhibitor for compression conductor connections lowers electrical resistance of compression joint while sealing out air and moisture to prevent the formation of surface oxides
- Wide operating temperature range; can be used in a wide range of electrical and environmental conditions
- Packaged in convenient dispenser bottles



Part Number	Part Description	Std. Pkg. Qty.
CMP-100-1	Contact aid for pad-to-pad or thread-to-thread aluminum connections, 8 oz. Operating temperature range -60°F (-51°C) to 400°F (204°C).	1

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Guidelines for Installing Aluminum Mechanical Connectors



1. Select the correct connector for your application.

- Always use an aluminum conductor with an aluminum connector
- Verify that the connector is marked for the conductor size and type that you are using



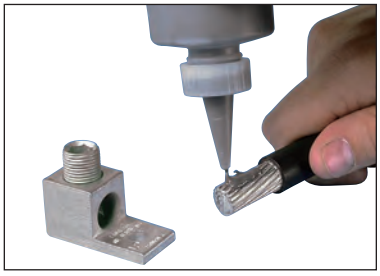
2. Remove the insulation from insulated cable.

- Visit www.panduit.com/tools for Panduit® cable stripping tools
- Use care to avoid nicking the conductor strands
- Strip the insulation to the proper length as listed in the installation instructions provided with Panduit connectors



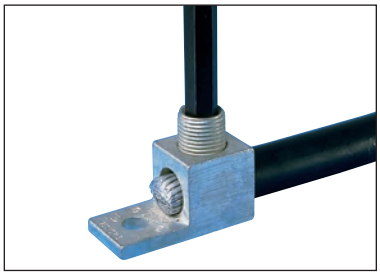
3. Clean the exposed conductor using a wire brush or an emery cloth.

- In a similar manner, clean an unplated connector pad and the surface to which the connector will be attached
- Solvent should be used to clean plated parts that are dirty, but the plating should never be disturbed with abrasives



4. Apply Panduit joint compound to the clean conductor for mechanical connector applications (see page D2.99).

- Joint compound will deter the formation of surface oxides after installation
- Aluminum compression connectors and insulated mechanical connectors are pre-filled with joint compound



5. Insert the conductor into the connector and:

- For mechanical connectors, tighten the screws to the recommended torque values
- For compression connectors, use the recommended die and crimping tool to make the proper compression connection

Order number of pieces required, in multiples of Standard Package Quantity.

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Panduit Power Connector Approvals

Logo (Symbol)	Agency	Spec/Approval	Applicable Products
c UL us LISTED	Underwriters Laboratories, Inc.	UL 486A-486B Wire Connectors and Soldering Lugs for use in US and Canada	As shown on product pages.
UL LISTED	Underwriters Laboratories, Inc.	UL 486A-486B Wire Connectors and Soldering Lugs for use in US	As shown on product pages.
	Underwriters Laboratories, Inc.	UL 486A-486B Wire Connectors and Soldering Lugs for use in US	As shown on product pages.
CSA CERTIFIED	Canadian Standards Association	C22.2 No. 65-13 Wire Connectors	As shown on product pages.
ABS TYPE APPROVAL PROGRAM	American Bureau of Shipping	ABS Rules Steel Vessel Rules 1-1-4/7.7, 4-8-3/9.19, 4-8-4/21.27	Copper compression connectors LCA, LCAF, LCAS, LCAX, LCB, LCC, LCD, S-R, LCCX, LCDX, SCS, SCSF, LCMA, LCMD, LCMC, LCMB, SCMS
NEBS Level 3	Telcordia Technologies, Inc.	Network Equipment – Building Systems	Copper compression connectors LCAS, LCA, LCD, LCB, LCC, LCAF, LCCF, SCSS, SCS, SCL, SCSF
IEC	International Stand, European Norm	IEC 61238-1: 2003 CLASS B EN 61238-1:2003	Metric Copper Compression Connectors and Splices for Class 2r Conductor as specified: LCMA, LCMD, SCMS, LCMB, LCMC
CE	European Compliance	Low Voltage Directive	Metric Copper Compression Connectors and Splices for Class 2r Conductor as specified: LCMA, LCMD, SCMS, LCMB, LCMC

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Silicon Bronze Hardware

Silicon Bronze Hardware is an excellent choice for electrical connections due to its high-strength, toughness, and corrosion resistance. It is also non-magnetic and free from galvanic action when in contact with copper. All Panduit silicon bronze hardware is certified as premium alloy 651 or 655 except for internal tooth lockwashers which use phosphorous bronze for its increased elasticity benefits.

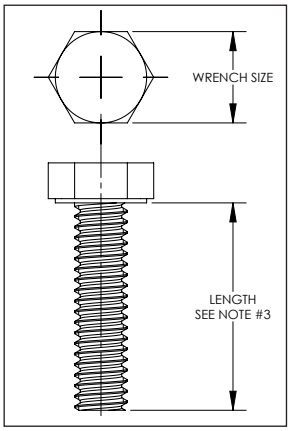
Proper installation torque is essential to ensure a high conductivity connection that will not loosen from vibration.

- Fully threaded to work in a range of applications
- Complies with ANSI/ASME B18.2.1 dimensions
- United National Coarse Class 2B thread fit

Hex Bolts

Thread Size (UNC)	Recommended Torque (inch-pounds)	Wrench Size (SAE)
1/4-20	80	7/16
5/16-18	180	1/2
3/8-16	240	9/16
7/16-14	350	5/8 (bolt) 11/16 (nut)
1/2-13	480	3/4
5/8-11	660	15/16





Part Number	Thread Size	Length (In)	Box. Qty.
SBBOLT2550-C	1/4-20	1/2	100
SBBOLT2562-C	1/4-20	5/8	
SBBOLT2575-C	1/4-20	3/4	
SBBOLT25100-C	1/4-20	1	
SBBOLT25125-C	1/4-20	1 1/4	
SBBOLT25150-C	1/4-20	1 1/2	
SBBOLT25200-C	1/4-20	2	
SBBOLT25250-C	1/4-20	2 1/2	
SBBOLT25300-C	1/4-20	3	
SBBOLT3150-C	5/16-18	1/2	
SBBOLT3162-C	5/16-18	5/8	
SBBOLT3175-C	5/16-18	3/4	
SBBOLT31100-C	5/16-18	1	
SBBOLT31125-C	5/16-18	1 1/4	
SBBOLT31150-C	5/16-18	1 1/2	
SBBOLT31175-C	5/16-18	1 3/4	
SBBOLT31200-C	5/16-18	2	
SBBOLT31250-C	5/16-18	2 1/2	
SBBOLT31300-C	5/16-18	3	
SBBOLT3850-C	3/8-16	1/2	
SBBOLT3862-C	3/8-16	5/8	
SBBOLT3875-C	3/8-16	3/4	
SBBOLT38100-C	3/8-16	1	
SBBOLT38125-C	3/8-16	1 1/4	
SBBOLT38150-C	3/8-16	1 1/2	
SBBOLT38175-C	3/8-16	1 3/4	
SBBOLT38200-C	3/8-16	2	
SBBOLT38250-C	3/8-16	2 1/2	
SBBOLT38300-C	3/8-16	3	
SBBOLT44150-C	7/16-14	1 1/2	
SBBOLT44200-C	7/16-14	2	
SBBOLT5050-C	1/2-13	1/2	
SBBOLT5062-C	1/2-13	5/8	
SBBOLT5075-C	1/2-13	3/4	
SBBOLT50100-C	1/2-13	1	
SBBOLT50125-C	1/2-13	1 1/4	
SBBOLT50150-C	1/2-13	1 1/2	
SBBOLT50175-C	1/2-13	1 3/4	
SBBOLT50200-C	1/2-13	2	
SBBOLT50250-C	1/2-13	2 1/2	
SBBOLT50300-L	1/2-13	3	50
SBBOLT6250-C	5/8-11	1/2	100
SBBOLT6262-C	5/8-11	5/8	
SBBOLT62100-C	5/8-11	1	
SBBOLT62125-C	5/8-11	1 1/4	
SBBOLT62150-L	5/8-11	1 1/2	50
SBBOLT62200-L	5/8-11	2	
SBBOLT62250-L	5/8-11	2 1/2	
SBBOLT62300-L	5/8-11	3	

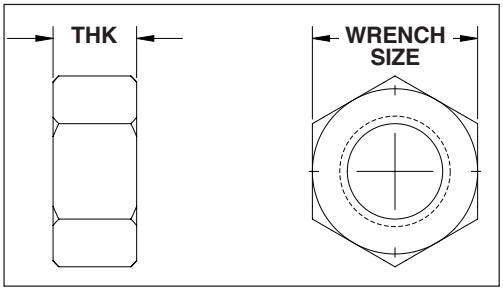
Order number of pieces required, in multiples of Standard Package Quantity.

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Hex Nuts

- Complies with ANSI/ASME B18.2.2 dimensions
- United National Coarse Class 2B thread fit



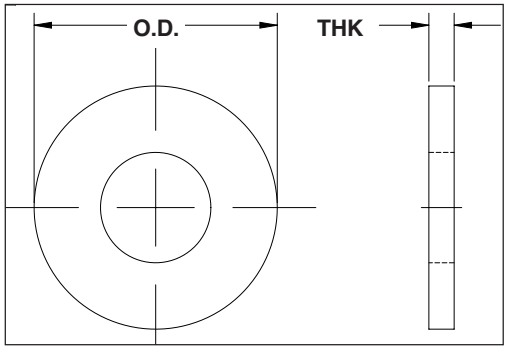


Part Number	Thread Size	THK (In)	Box. Qty.
SBNUT25-C	1/4-20	7/32	100
SBNUT31-C	5/16-18	17/64	
SBNUT38-C	3/8-16	21/64	
SBNUT44-C	7/16-14	3/8	
SBNUT50-C	1/2-13	7/16	
SBNUT62-C	5/8-11	35/64	

Flat Washers

- Complies with ANSI/ASME B18.22.1 Type A narrow dimensions (SAE)



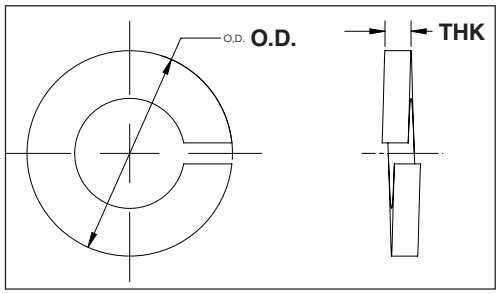


Part Number	O.D. (In)	THK (In)	Box. Qty.
SBFW25-C	5/8	.065	100
SBFW31-C	11/16	.065	
SBFW38-C	13/16	.065	
SBFW44-C	59/64	.065	
SBFW50-C	1 1/16	.095	
SBFW62-C	1 5/16	.095	

Split Lockwashers

- Complies with ANSI/ASME B18.21.1 dimensions
- Spring action exerts constant pressure on the face of the nut, preventing it from loosening



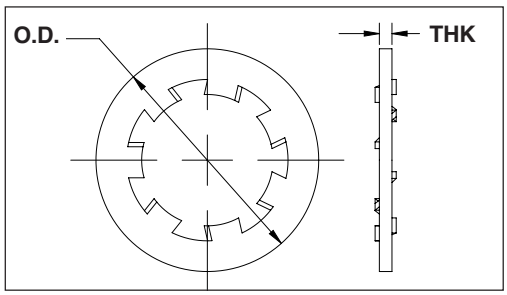


Part Number	O.D. (In)	THK (In)	Box. Qty.
SBSLW25-C	0.487	0.062	100
SBSLW31-C	0.583	0.078	
SBSLW38-C	0.680	0.094	
SBSLW44-C	0.776	0.109	
SBSLW50-C	0.869	0.125	
SBSLW62-C	1.073	0.156	

Internal Tooth Lockwashers

- Complies with ANSI/ASME B18.21.1 dimensions
- Angle of teeth present a biting edge that digs into the nut, preventing it from loosening





Part Number	O.D. (In)	THK (In)	Box. Qty.
SBITW25-C	0.478	0.028	100
SBITW31-C	0.610	0.034	
SBITW38-C	0.692	0.040	
SBITW44-C	0.789	0.040	
SBITW50-C	0.900	0.045	
SBITW62-C	1.071	0.050	

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Stainless Steel Hardware

Stainless Steel is an economical choice for electrical connections due to its high strength and corrosion resistance. All Panduit stainless steel hardware is grade 18-8 which may be mildly magnetic.

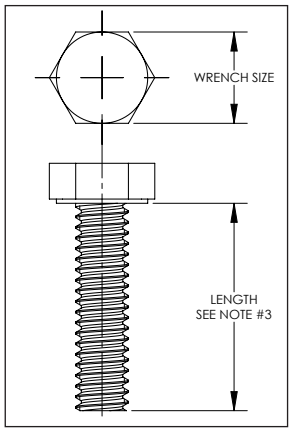
Proper installation torque is essential to ensure a high conductivity connection that will not loosen from vibration.

- Fully threaded to work in a range of applications
- Complies with ANSI/ASME B18.2.1 dimensions
- United National Coarse Class 2B thread fit

Hex Bolts

Thread Size (UNC)	Recommended Torque (inch-pounds)	Wrench Size (SAE)
1/4-20	80	7/16
5/16-18	180	1/2
3/8-16	240	9/16
1/2-13	480	3/4
5/8-11	660	15/16





Part Number	Thread Size	Length (In)	Box. Qty.
SSBOLT2525-C	1/4-20	1/4	
SSBOLT2550-C	1/4-20	1/2	
SSBOLT2562-C	1/4-20	5/8	
SSBOLT2575-C	1/4-20	3/4	
SSNTS1420-C	1/4-20	1	
SSBOLT25125-C	1/4-20	1 1/4	
SSBOLT25150-C	1/4-20	1 1/2	
SSBOLT25175-C	1/4-20	1 3/4	
SSBOLT25200-C	1/4-20	2	
SSBOLT25250-C	1/4-20	2 1/2	
SSBOLT25300-C	1/4-20	3	
SSBOLT3150-C	5/16-18	1/2	
SSBOLT3162-C	5/16-18	5/8	
SSBOLT3175-C	5/16-18	3/4	
SSBOLT31100-C	5/16-18	1	
SSBOLT31125-C	5/16-18	1 1/4	
SSBOLT31150-C	5/16-18	1 1/2	
SSBOLT31175-C	5/16-18	1 3/4	
SSBOLT31200-C	5/16-18	2	
SSBOLT31250-C	5/16-18	2 1/2	
SSBOLT31300-C	5/16-18	3	100
SSBOLT3850-C	3/8-16	1/2	
SSBOLT3862-C	3/8-16	5/8	
SSBOLT3875-C	3/8-16	3/4	
SSNTS3816-C	3/8-16	1	
SSBOLT38125-C	3/8-16	1 1/4	
SSBOLT38150-C	3/8-16	1 1/2	
SSBOLT38175-C	3/8-16	1 3/4	
SSBOLT38200-C	3/8-16	2	
SSBOLT38250-C	3/8-16	2 1/2	
SSBOLT38300-C	3/8-16	3	
SSBOLT5050-C	1/2-13	1/2	
SSBOLT5062-C	1/2-13	5/8	
SSBOLT5075-C	1/2-13	3/4	
SSBOLT50100-C	1/2-13	1	
SSBOLT50125-C	1/2-13	1 1/4	
SSBOLT50150-C	1/2-13	1 1/2	
SSBOLT50175-C	1/2-13	1 3/4	
SSBOLT50200-C	1/2-13	2	
SSBOLT50250-C	1/2-13	2 1/2	
SSBOLT50300-L	1/2-13	3	50
SSBOLT6250-C	5/8-11	1/2	
SSBOLT6262-C	5/8-11	5/8	
SSBOLT6275-C	5/8-11	3/4	100
SSBOLT62100-C	5/8-11	1	
SSBOLT62125-C	5/8-11	1 1/4	
SSBOLT62150-L	5/8-11	1 1/2	
SSBOLT62175-L	5/8-11	1 3/4	
SSBOLT62200-L	5/8-11	2	50
SSBOLT62250-L	5/8-11	2 1/2	
SSBOLT62300-L	5/8-11	3	

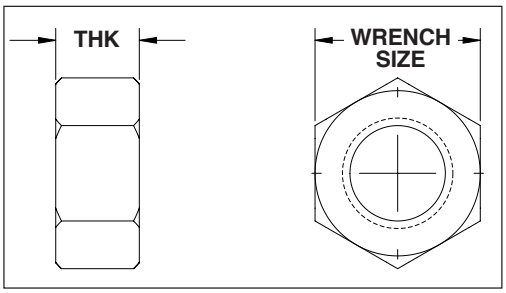
Order number of pieces required, in multiples of Standard Package Quantity.

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Hex Nuts

Panduit stainless steel hex nuts comply with industry standard ANSI/ASME B18.2.2 dimensions and have a Unified National Coarse Class 2B thread fit.



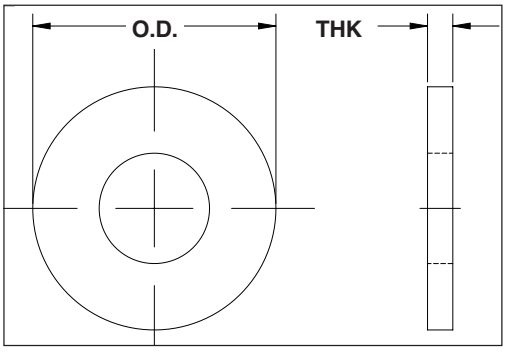


Part Number	Thread Size	THK (In)	Box. Qty.
SSN1420-C	1/4-20	7/32	100
SSNUT31-C	5/16-18	17/64	
SSN3816-C	3/8-16	21/64	
SSNUT50-C	1/2-13	7/16	
SSNUT62-C	5/8-11	35/64	

Flat Washers

Panduit stainless steel flat washers comply with industry standard ANSI/ASME B18.22.1 Type A narrow dimensions (SAE), except for SSFW38-C.





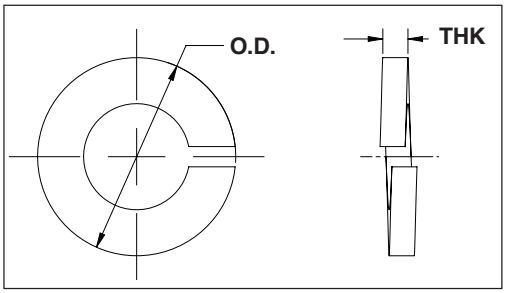
Part Number	O.D. (In)	THK (In)	Box. Qty.
SSFW14-C	5/8	.065	100
SSFW31-C	11/16	.065	
SSFW38-C	7/8	.050	
SSFW50-C	1 1/16	.095	
SSFW62-C	1 5/16	.095	

Split Lockwashers

Panduit stainless steel split lockwashers comply with industry standard ANSI/ASME B18.21.1 dimensions.

The spring action exerts constant pressure on the face of the nut, preventing it from loosening.

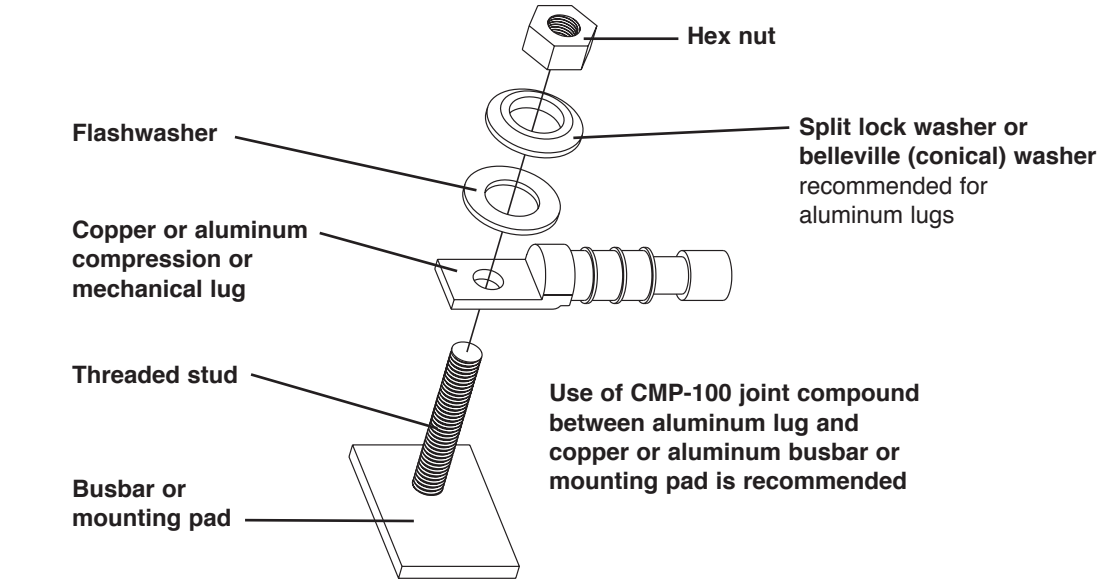


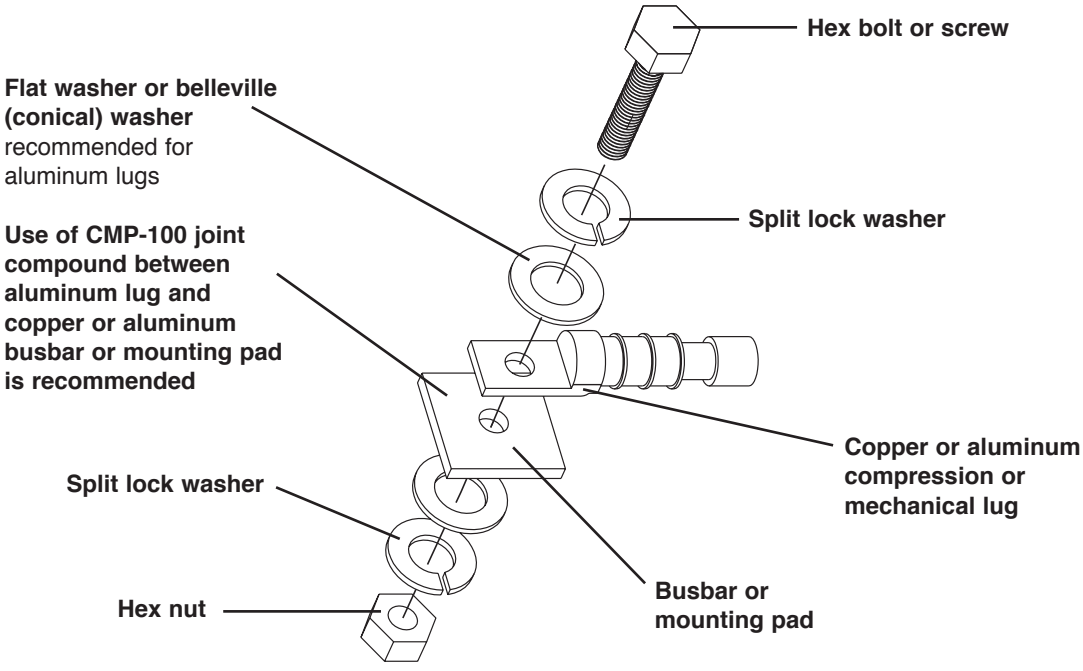


Part Number	O.D. (In)	THK (In)	Box. Qty.
SSSLW25-C	0.487	0.062	100
SSSLW31-C	0.583	0.078	
SSSLW38-C	0.680	0.094	
SSSLW50-C	0.869	0.125	
SSSLW62-C	1.073	0.156	

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Recommended Termination Hardware





Recommended Hardware Material

Material Configuration of Lug/Mounting Surface

Copper to Copper	Aluminum to Copper	Aluminum to Aluminum	Copper to Steel	Aluminum to Steel
1. Silicon bronze 2. Stainless steel	1. Silicon bronze 2. Aluminum 3. Stainless steel	1. Aluminum 2. Stainless steel 3. Plated silicon bronze	1. Silicon bronze 2. Stainless steel	1. Aluminum 2. Stainless steel

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Conductor Sizes

Copper Concentric Stranded Conductor Sizes

Conductor Size AWG or kcmil	Number of Strands	Nominal Diameter (In.)	Class
#20	7	0.036 /3	B
#18	7	0.045 /6	B
#16	7	0.057 /6	B
#14	7	0.072 /6	B
#12	7	0.091 /5	B
#10	7	0.116	B
#9	7	0.130	B
#8	7	0.146	B
#7	7	0.164	B
#6	7	0.184	B
#5	7	0.206	B
#4	3	0.254	AA
#4	7	0.232	B&A
#3	3	0.285	AA
#3	7	0.260	B&A
#2	3	0.320	AA
#2	7	0.292	B&A
#1	3	0.360	AA
#1	7	0.328	AA
#1	19	0.332	B
1/0	7	0.368	A&A
1/0	12	0.390	—
1/0	19	0.373	B
2/0	7	0.414	A&A
2/0	12	0.438	—
2/0	19	0.419	B
3/0	7	0.464	A&A
3/0	12	0.492	—
3/0	19	0.470	B
4/0	7	0.522	A&A
4/0	12	0.522	—
4/0	19	0.528	B
250	12	0.600	AA
250	19	0.574	A
250	37	0.575	B
300	12	0.657	AA
300	19	0.628	A
300	37	0.630	B
350	12	0.710	AA
350	19	0.679	A
350	37	0.681	B
400	19	0.726	A&AA
400	37	0.728	B
450	19	0.770	AA
450	37	0.772	B&A
500	19	0.811	AA
500	37	0.813	B&A
600	37	0.891	A&AA
600	61	0.893	B
700	37	0.963	BB
700	61	0.964	B&A
750	37	0.977	AA
750	61	0.998	B&A
800	37	1.029	AA
800	61	1.031	B&A
900	37	1.092	AA
900	61	1.094	B&A
1000	37	1.151	AA
1000	61	1.152	B&A
1000	61	1.152	B&A

Flexible Copper Conductor Sizes

Conductor Size AWG or kcmil	Number of Strands	Nominal Diameter (In.)	Class
#8	41/.0201	0.156	I
#8	49/.0184	0.166	G
#8	133/.0111	0.167	H
#8	168/.010	0.157	K
#8	37	0.330	Locomotive (DLO)
#8	420/.0063	0.162	M
#7	49/.0206	0.185	G
#7	52/.0201	0.185	I
#7	133/.0125	0.188	H
#7	210/.010	0.179	K
#7	—	—	Locomotive (DLO)
#7	532/.0063	0.196	M
#6	49/.0231	0.208	G
#6	63/.0201	0.207	I
#6	133/.0140	0.210	H
#6	266/.010	0.210	K
#6	61	0.410	Locomotive (DLO)
#6	665/.0063	0.215	M
#5	49/.0260	0.234	G
#5	84/.0201	0.235	I
#5	133/.0158	0.237	H
#5	336/.010	0.235	K
#5	—	—	Locomotive (DLO)
#5	836/.0063	0.240	M
#4	49/.0292	0.263	G
#4	105/.0201	0.263	I
#4	133/.0177	0.266	H
#4	420/.010	0.272	K
#4	105	0.460	Locomotive (DLO)
#4	1064/.0063	0.269	M
#3	49/.0328	0.295	G
#3	133/.0199	0.299	H
#3	133/.0201	0.291	I
#3	532/.010	0.304	K
#3	125	0.480	Locomotive (DLO)
#3	1323/.0063	0.305	M
#2	49/.0368	0.331	G
#2	133/.0223	0.335	H
#2	161/.0201	0.319	I
#2	665/.010	0.338	K
#2	150	0.510	Locomotive (DLO)
#2	1666/.0063	0.337	M
#1	133/.0251	0.337	G
#1	210/.0201	0.367	I
#1	259/.018	0.378	H
#1	836/.010	0.397	K
#1	225	0.650	Locomotive (DLO)
#1	2107/.0063	0.376	M
1/0	133/.0282	0.423	G
1/0	259/.0202	0.424	H
1/0	266/.0201	0.441	I
1/0	1064/.010	0.451	K
1/0	275	0.680	Locomotive (DLO)
1/0	2646/.0063	0.423	M
2/0	133/.0316	0.474	G
2/0	259/.0227	0.477	H
2/0	342/.0201	0.500	I
2/0	1323/.010	0.470	K
2/0	325	0.720	Locomotive (DLO)
2/0	3325/.0063	0.508	M

Continued on next page

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Conductor Sizes (continued)

Flexible Copper Conductor Sizes

Conductor Size AWG or kcmil	No. of Strands/ Strand Dia.	Nominal Diameter (In.)	Class
3/0	133/.0355	0.533	G
3/0	259/.0255	0.536	H
3/0	418/.0201	0.549	I
3/0	1666/.010	0.533	K
3/0	450	0.565	Locomotive (DLO)
3/0	4256/.0063	0.576	M
4/0	133/.0399	0.599	G
4/0	259/.0286	0.601	H
4/0	532/.0201	0.613	I
4/0	2107/.010	0.627	K
4/0	550	0.840	Locomotive (DLO)
4/0	5320/.0063	0.645	M
250	259/.0311	0.650	G
250	427/.0242	0.653	H
250	637/.0201	0.682	I
250	2499/.010	0.682	K
262.6	650	0.960	Locomotive (DLO)
250	6384/.0063	0.713	M
300	259/.0340	0.714	G
300	427/.0265	0.716	H
300	735/.0201	0.737	I
300	2989/.010	0.768	K
313.1	775	1.040	Locomotive (DLO)
300	7581/.0063	0.768	M
350	259/.0368	0.773	G
350	427/.0268	0.772	H
350	882/.0201	0.800	I
350	3458/.010	0.809	K
373.7	925	1.140	Locomotive (DLO)
350	8806/.0063	0.825	M
400	259/.0393	0.825	G
400	427/.0306	0.826	H
400	980/.0201	0.831	I
400	3990/.010	0.878	K
400	—	—	Locomotive (DLO)
400	10101/.0063	0.901	M
450	259/.0417	0.876	G
450	427/.325	0.878	H
450	1127/.0201	0.894	I
450	4522/.010	0.933	K
444.4	1100	1.230	Locomotive (DLO)
450	11396/.0063	0.940	M
500	259/.0439	0.922	G
500	427/.0342	0.923	H
500	1125/.0201	0.941	I
500	5054/.010	0.988	K
535.3	1325	1.320	Locomotive (DLO)
500	12691/.0063	0.997	M
600	427/.0375	1.013	G
600	703/.0292	1.022	H
600	1470/.0201	1.027	I
600	5985/.010	1.125	K
646.4	1600	1.450	Locomotive (DLO)
600	14945/.0063	1.084	M

Flexible Copper Conductor Sizes

Conductor Size AWG or kcmil	No. of Strands/ Strand Dia.	Nominal Diameter (In.)	Class
700	427/.0405	1.094	G
700	703/.0316	1.106	H
700	1729/.0201	1.194	I
700	6916/.010	1.207	K
777.7	1925	1.540	Locomotive (DLO)
700	17507/.0063	1.183	M
800	427/.0433	1.169	G
800	703/.0337	1.180	H
800	1995/.0201	1.290	I
800	7980/.010	1.305	K
800	—	—	Locomotive (DLO)
800	20069/.0063	1.256	M
900	427/.0459	1.239	G
900	703/.0358	1.253	H
900	2261/.0201	1.372	I
900	9065/.010	1.323	K
900	—	—	Locomotive (DLO)
900	22631/.0063	1.331	M
1000	427/.0484	1.307	G
1000	703/.0377	1.320	H
1000	2527/.0201	1.427	I
1000	10101/.010	1.419	K
1000	—	—	Locomotive (DLO)
1000	25193/.0063	1.404	M

Copper Compact Stranded Conductor Sizes

Conductor Size AWG or kcmil	Number of Strands	Conductor Diameter (In.)	Class
#8	7	0.134	Compact
#6	7	0.169	Compact
#4	7	0.213	Compact
#2	7	0.268	Compact
#1	19	0.299	Compact
1/0	19	0.336	Compact
1/0	19	0.376	Compact
3/0	19	0.423	Compact
4/0	19	0.475	Compact
250	37	0.520	Compact
300	37	0.570	Compact
350	37	0.616	Compact
400	37	0.659	Compact
450	37	0.700	Compact
500	37	0.736	Compact
550	61	0.775	Compact
600	61	0.813	Compact
650	61	0.845	Compact
700	61	0.877	Compact
750	61	0.908	Compact
800	61	0.938	Compact
900	61	0.999	Compact
1000	61	1.060	Compact

Continued on next page

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Conductor Sizes (continued)

Copper Solid Conductor Sizes

Solid Copper Conductor Size AWG or kcmil	Conductor Diameter (In.)
#18	0.040
#17	0.045
#16	0.050
#15	0.057
#14	0.064
#13	0.071
#12	0.080
#11	0.090
#10	0.101
#9	0.114
#8	0.128
#7	0.128
#6	0.162
#5	0.181
#4	0.204
#3	0.229
#2	0.257
#1	0.289
1/0	0.324
2/0	0.364
3/0	0.409
4/0	0.460

Aluminum Concentric Stranded Conductor Sizes

Class B Aluminum Concentric AWG or kcmil	Number of Strands	Diameter of each Strand (Mils)
#8	7	48.6
#7	7	54.5
#6	7	61.2
#5	7	68.8
#4	7	77.2
#3	7	86.7
#2	7	97.4
#1	19	66.4
1/0	19	74.5
2/0	19	83.7
3/0	19	94.0
4/0	19	105.5
250	37	82.2
300	37	90.0
350	37	97.3
400	37	104.0
450	37	110.3
500	37	116.2
550	61	95.0
600	61	99.2
650	61	103.2
700	61	107.1
750	61	110.9
800	61	114.5
900	61	121.5
1000	61	128.0

Aluminum Compact Stranded Conductor Sizes

Compact Aluminum AWG or kcmil	Class ASTM B400	Number of Strands	Conductor Diameter (In.)
#8	A, B	7	0.134
#6	A, B	7	0.169
#4	A, B	7	0.213
#3	A, B	7	0.238
#2	AA, A, B	7	0.268
#1	AA, A	7	0.299
#1	B	19	0.299
1/0	AA, A	7	0.336
1/0	B	19	0.336
2/0	AA, A	7	0.376
2/0	B	19	0.376
3/0	AA, A	7	0.423
3/0	B	19	0.423
4/0	AA, A	7	0.475
4/0	B	19	0.475
250	AA	7	0.520
250	A	19	0.520
250	B	37	0.520
266	AA	7	0.337
266	A	19	0.337
300	AA	7	0.570
300	A	19	0.570
300	B	37	0.570
336	AA	7	0.603
336	A	19	0.603
350	A	19	0.616
350	B	37	0.616
397	AA, A	19	0.659
400	B	37	0.659
450	B	37	0.700
477	AA	19	0.722
500	AA	19	0.736
500	B	37	0.736
550	B	61	0.775
556	AA	19	0.780
600	B	61	0.813
650	B	61	0.845
700	B	61	0.877
750	B	61	0.908
800	B	61	0.938
900	B	61	0.999
1000	B	61	1.060

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Common Conductor Sizes and Strandings Reference Chart

Conductor		Individual Strands			Overall Conductor Size			Conductor		Individual Strands			Overall Conductor Size		
			Diameter		Diameter		Area				Diameter		Diameter		Area
AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. Mils	AWG	Metric mm²	No.	mm	In.	mm	In.	Circ. Mils
	.05	25	0.05	0.002	0.25	0.010	97			19	0.25	0.010	1.30	0.051	1841
	.06	41	0.05	0.002	0.36	0.014	159		1.0	1	1.13	0.044	1.13	0.044	1979
		10	0.13	0.005	0.53	0.021	250			32	0.20	0.008	1.30	0.051	1984
26		1	0.41	0.016	0.41	0.016	256			7	0.43	0.017	1.30	0.051	2006
		7	0.16	0.006	0.48	0.019	278			19	0.29	0.011	1.47	0.058	2426
		19	0.10	0.004	0.51	0.020	304			65	0.16	0.006	1.50	0.059	2580
		41	0.08	0.003	0.58	0.023	384			*26	0.25	0.010	1.50	0.059	2600
		10	0.16	0.006	0.58	0.023	397	16		1	1.30	0.051	1.30	0.051	2601
24		1	0.51	0.020	0.51	0.020	400			105	0.13	0.005	1.50	0.059	2625
		7	0.20	0.008	0.61	0.024	448			*7	0.51	0.020	1.52	0.060	2828
		19	0.13	0.005	0.61	0.024	475			30	0.25	0.010	1.70	0.067	2906
		65	0.07	0.003	0.65	0.026	484			21	0.30	0.012	1.60	0.063	2930
	0.25	128	0.05	0.002	0.65	0.026	496		1.5	189	0.10	0.004	1.90	0.075	2930
		32	0.10	0.004	0.65	0.026	496			7	0.52	0.020	1.60	0.063	2934
		14	0.16	0.006	0.65	0.026	556			1	1.38	0.054	1.38	0.054	2952
		1	0.64	0.025	0.64	0.025	625			45	0.16	0.006	1.85	0.073	3786
		16	0.16	0.006	0.76	0.030	635			19	0.38	0.014	1.85	0.073	3831
22		26	0.13	0.005	0.76	0.030	650	14		1	1.63	0.064	1.63	0.064	4096
		7		0.010	0.76	0.030	700			*41	0.25	0.010	1.85	0.073	4100
		19	0.16	0.006	0.79	0.031	754			*7	0.64	0.025	1.85	0.073	4481
		48	0.10	0.004	0.80	0.031	744			50	0.25	0.010	2.20	0.087	4844
		194	0.05	0.002	0.80	0.031	752			7	0.67	0.026	2.10	0.083	4871
	0.38	100	0.07	0.003	0.80	0.031	760		2.5	35	0.30	0.012	2.20	0.087	4883
		7	0.27	0.011	0.80	0.031	791			315	0.10	0.004	2.20	0.087	4883
		12	0.21	0.008	0.80	0.031	820			1	1.78	0.070	1.78	0.070	4911
		21	0.16	0.006	0.80	0.031	833			19	0.45	0.018	2.36	0.093	6088
			0.30	0.012	0.90	0.035	977			*65	0.25	0.010	2.41	0.095	6500
	0.5	16	0.20	0.008	0.90	0.035	992	12		165	0.16	0.006	2.41	0.095	6549
		1	0.80	0.031	0.80	0.031	992			1	2.06	0.081	2.06	0.081	6561
		*10	0.25	0.010	0.89	0.035	1000			*7	0.81	0.032	2.44	0.096	7168
		1	0.81	0.032	0.81	0.032	1024			56	0.30	0.012	3.10	0.122	7812
		41	0.13	0.005	0.91	0.036	1025			1	2.26	0.089	2.26	0.089	7917
20		26	0.16	0.006	0.91	0.036	1032		4.0	511	0.10	0.004	3.00	0.118	7921
		*7	0.32	0.013	0.97	0.038	1111			19	0.52	0.020	2.70	0.106	7963
		19	0.20	0.008	0.94	0.037	1216			37	0.40	0.016	2.92	0.115	9354
		7	0.37	0.015	1.10	0.043	1485			49	0.36	0.014	2.95	0.116	9880
	0.75	24	0.20	0.008	1.20	0.047	1488	10		*7	0.98	0.039	2.95	0.116	10376
		1	1.00	0.039	1.00	0.039	1550			1	2.59	0.102	2.59	0.102	10404
		*16	0.25	0.010	1.19	0.047	1600			*105	0.25	0.010	2.95	0.116	10500
		1	1.02	0.040	1.02	0.040	1600			84	0.30	0.012	3.50	0.138	11718
		65	0.13	0.005	1.19	0.047	1625			756	0.10	0.004	3.70	0.146	11718
18		41	0.16	0.006	1.19	0.047	1627		6.0	1	2.76	0.109	2.76	0.109	11807
		*7	0.40	0.016	1.22	0.048	1770			7	1.05	0.041	3.20	0.126	11962
		19	0.25	0.010	1.24	0.049	1900			19	0.64	0.025	3.30	0.130	12063

*Strandings required for UL and CSA certification testing.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Common Conductor Sizes and Strandings Reference Chart (continued)

Conductor		Individual Strands			Overall Conductor Size			Conductor		Individual Strands			Overall Conductor Size		
			Diameter		Diameter		Area				Diameter		Diameter		Area
AWG	Metric mm^2	No.	mm	In.	mm	In.	Circ. Mils	AWG	Metric mm^2	No.	mm	In.	mm	In.	Circ. Mils
	6	7	0.107	0.042	3.21	0.126	11840		95	19	2.57	0.101	12.8	0.505	187500
		1	2.77	0.109	2.77	0.109	11840			37	1.83	0.072	12.5	0.504	187500
9		7	1.1	0.0432	3.3	0.13	13000	4/0		19	2.89	0.1055	13.4	0.528	211600
		1	2.91	0.1144	2.91	0.114	13090		120	37	2.06	0.081	14.4	0.567	237.8 kcmil
8		1	3.26	0.1285	3.25	0.128	16510	250 kcmil		37	2.07	0.0822	14.6	0.575	250 kcmil
		7	1.23	0.0486	3.7	0.146	16510	300 kcmil	150	37	2.29	0.09	16	0.63	300 kcmil
	10	7	1.37	0.054	4.12	0.162	19740	350 kcmil		37	2.47	0.0973	17.3	0.681	350 kcmil
		1	3.58	0.141	3.58	0.141	19740		185	37	2.54	0.1	17.8	0.7	365.1 kcmil
7		7	1.38	0.0545	4.15	0.164	20520	400 kcmil		37	2.64	0.104	18.5	0.728	400 kcmil
		1	3.67	0.1443	3.67	0.144	20520		240	37	2.9	0.114	20.3	0.798	473.6 kcmil
6		7	1.55	0.0612	4.66	0.184	26240			61	2.26	0.089	20.3	0.801	473.6 kcmil
		1	4.11	0.162	4.11	0.162	26240	500 kcmil		37	2.95	0.1162	20.7	0.813	500 kcmil
	16	7	1.73	0.08	5.13	0.204	31580			61	2.3	0.0905	20.7	0.814	500 kcmil
5		7	1.75	0.0688	5.24	0.206	33090		300 kcmil	61	2.51	0.099	22.6	0.891	592.1 kcmil
4		7	1.96	0.0772	5.88	0.232	41740	600 kcmil		61	2.52	0.0992	22.7	0.893	600 kcmil
	25	7	2.16	0.085	6.48	0.255	49340	700 kcmil		61	2.72	0.1071	24.5	0.964	700 kcmil
		19	1.32	0.052	6.6	0.26	49340	750 kcmil		61	2.82	0.1109	25.4	0.998	750 kcmil
3		7	2.2	0.0867	6.61	0.26	52620			91	2.31	0.0908	25.4	0.998	750 kcmil
2		7	2.47	0.0974	7.42	0.292	66300		400	61	2.9	0.114	26.1	1.026	798.4 kcmil
	35	7	2.54	0.1	7.62	300	69070	800 kcmil		61	2.91	0.1145	26.2	1.031	800 kcmil
		19	1.55	0.001	7.75	0.305	69070			91	2.38	0.0938	26.2	1.032	800 kcmil
1		19	1.5	0.0064	8.43	0.332	83690	1000 kcmil	500	61	3.25	0.128	28.3	1.152	986.8 kcmil
	50	19	1.85	0.073	9.27	0.365	98680			91	2.66	0.1048	29.3	1.153	1000 kcmil
1/0		19	1.59	0.0745	9.46	0.373	10500		625	91	2.97	0.117	32.7	1.287	1233.7 kcmil
2/0		19	2.13	0.0837	10.6	0.419	133100								
	70	19	2.18	0.086	10.9	0.43	138100								
3/0		19	2.59	0.094	11.9	0.47	167800								
		36	1.71	0.0673	12	0.471	167800								

This chart details the different conductors commonly used in the industry. For each size, either AWG or Metric, various stranding options are listed. Typically the higher stranding is used in applications requiring greater conductor flexibility.

AWG to Metric Wire Crosses

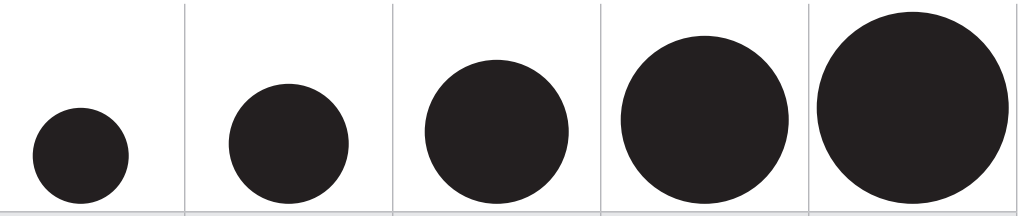
AWG	Metric (mm^2)
26 - 22	0.1 - 0.5
22 - 18	0.5 - 1.0
16 - 14	1.5 - 2.5
12 - 10	4.0 - 6.0

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Stud Size Chart (Inches)



Standard Stud Size	#2	#4	#5	#6	#8	#10	1/4"	5/16"	3/8"	7/16"
Stud Size Decimal Equivalent	0.086"	0.112"	0.127"	0.138"	0.164"	0.190"	0.250"	0.312"	0.375"	0.438"
Terminal Hole Diameter	0.090"	0.118"	0.130"	0.147"	0.173"	0.204"	0.270"	0.343"	0.392"* 0.406"**	0.456"
Stud Size Designation in Panduit Part Number	2	4	5	6	8	10	14	56	38	76



Standard Stud Size	1/2"	5/8"	3/4"	7/8"	1"
Stud Size Decimal Equivalent	0.500"	0.625"	0.750"	0.875"	1.00"
Terminal Hole Diameter	531"	0.656"	0.810"	0.906"	1.031"
Stud Size Designation in Panduit Part Number	12	58	34	78	1

Equivalent Tables Decimal/Inches

1/64	0.0156
1/32	0.0312
3/64	0.0468
1/16	0.0625
5/64	0.0781
3/32	0.0937
7/64	0.1093
1/8	0.125
9/64	0.1406
5/32	0.1562
11/64	0.1718
3/16	0.1875
13/64	0.2031
7/32	0.2187
15/64	0.2343
1/4	0.25

17/64	0.2656
9/32	0.2812
19/64	0.2968
5/16	0.3125
21/64	0.3281
11/32	0.3437
23/64	0.3593
3/8	0.375
25/64	0.3906
13/32	0.4062
27/64	0.4218
7/16	0.4375
29/64	0.4531
15/32	0.4687
31/64	0.4843
1/2	0.5

33/64	0.5156
17/32	0.5312
35/64	0.5468
9/16	0.5625
37/64	0.5781
19/32	0.5937
39/64	0.6093
5/8	0.625
41/64	0.6406
21/32	0.6562
43/64	0.6718
11/16	0.6875
45/64	0.7031
23/32	0.7187
47/64	0.7343
3/4	0.75

49/64	0.7656
25/32	0.7812
51/64	0.7968
13/16	0.8125
53/64	0.8281
27/32	0.8437
55/64	0.8593
7/8	0.875
57/64	0.8906
29/32	0.9062
59/64	0.9218
15/16	0.9375
61/64	0.9531
31/32	0.9687
63/64	0.9843
1	1.

Order number of pieces required, in multiples of Standard Package Quantity.

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Grounding Connectors

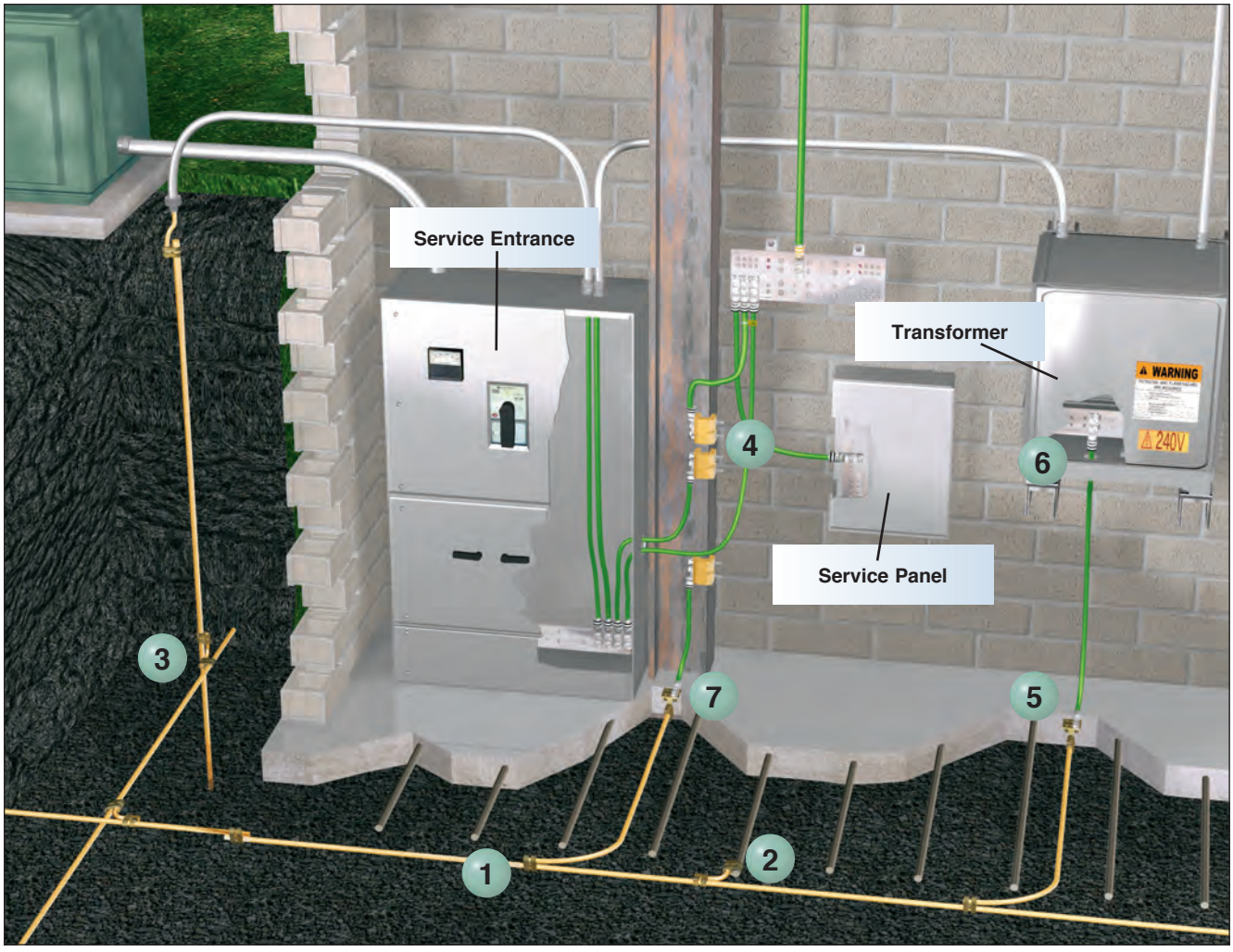
Panduit® offers a wide variety of StructuredGround™ Grounding Connectors that are available in a broad range of styles and sizes such as manual, controlled cycle, and battery-operated hydraulic crimping tools. The connectors are designed for use with various code and flex conductor types which meet application needs and provide the lowest installed cost.

- **Functional product information is marked directly on the connector, facilitating the identification, ordering, and usage of the grounding connector**
- **Compression connectors are color-coded to facilitate quick identification of the proper crimping die**
- **Mechanical connectors are designed for easy installation – no special tools required**
- **Incorporate wide wire range-taking capability to minimize inventory requirements**
- **Made from high strength, high conductivity electrolytic copper and aluminum alloy materials to provide optimum connectivity for both power and grounding applications**
- **Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools, including BlackFin™ installation tools, for reliable connections at the lowest installed cost**
- **Broad range of styles and sizes for use with a variety of code and flex conductor types**

Panduit grounding connectors help create a safe and reliable grounding system that provides a high-quality, visually verifiable, and dedicated grounding path. This helps customers maintain system performance, improve network reliability, and safeguard network equipment and personnel while meeting today's application requirements.

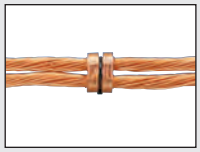
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StructuredGround™ Direct Burial Compression Grounding System Roadmap



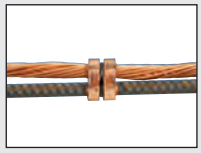
1 Conductor to Conductor

E Style Grounding Connectors: Create bonds between parallel grounding conductors. (see page D3.8)



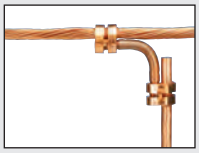
2 Conductor to Rebar

E Style Grounding Connectors: Allow bonds to reinforcing bars. (see page D3.8)



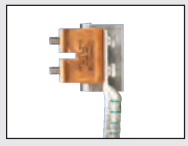
3 Conductor to Ground Rod

Grounding Cross Connectors: Create bonds between perpendicular grounding conductors. (see page D3.9)



4 Conductor to Building Steel

Universal Beam Grounding Clamp: Bonds structural steel to grounding conductor system. (see page D3.10)



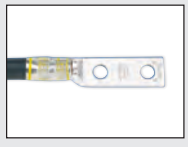
5 Conductor to Grounding Electrodes

Grounding Plate Connector: Allows bonds through concrete. (see page D3.11)



6 Related Product LCC-W

Long Barrel Two-Hole Code Conductor Lugs: For use with stranded copper conductors. (see pages D2.21 – D2.24)



7 Related Product LCC-B

Direct Burial Bare Copper Lugs: For use with stranded copper conductors. (see pages D3.13)

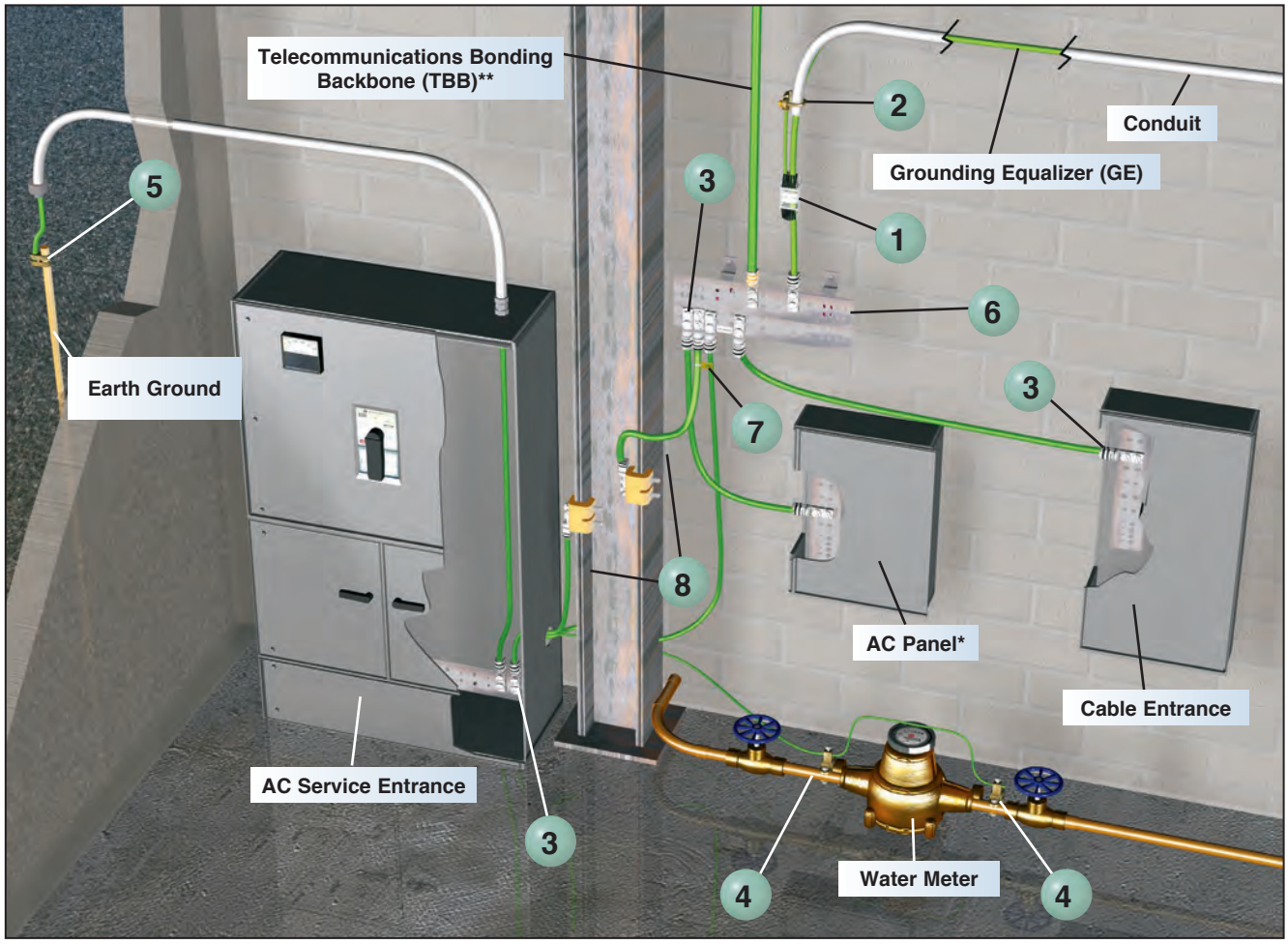


Order number of pieces required, in multiples of Standard Package Quantity.

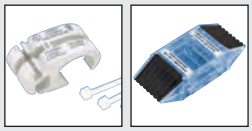
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Service Entrance Grounding Roadmap

- Complies with TIA-607-C and IEEE Std 1100 (IEEE Emerald Book)
- Grounding Equalizer (GE) is required when two or more Telecommunications Bonding Backbones (TBB) are used within a multi-story building; bond TBBs together with a GE at the top floor and at a minimum of every third floor in between



1 **Copper Compression HTAP and Clear Cover: HTWC (see page D3.16)**



2 **Bronze, U-Bolt Grounding Clamp: GPL (see page D3.21)**



3 **Copper Compression, Two-Hole, Long Barrel with Window Lug: LCC-W (see pages D2.21 – D2.24)**



4 **Bronze, Water Pipe Grounding Clamp: GPC (see page D3.22)**



5 **E Style Grounding Connector: GCE (see page D3.8)**



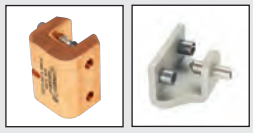
6 **Telecommunications Main Grounding Busbar (TMGB) and Busbar Label (see page D3.5)**



7 **Telecommunications Grounding and Bonding Conductor Label Kit: LTYK (see page D3.5)**



8 **Universal Beam Grounding Clamp: GUBC, GUBC4/0-6 (see page D3.10)**



*AC Panel should be grounded per NEC standards. Enclosure should be grounded per manufacturer's specifications.
**Specification TIA-607-C specifies different size conductors based on the length of the Telecommunications Bonding Backbone (TBB).

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Access Floor Grounding Clamp

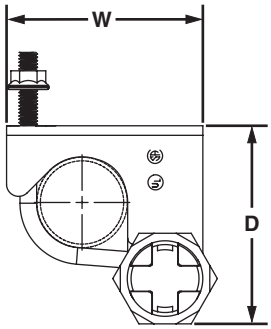
PATENTED c UL us LISTED CSA CERTIFIED

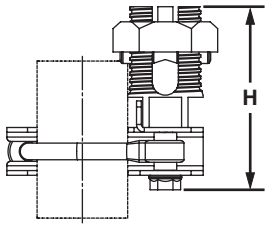
Type GPQC

- Bond mesh common bonding network (MCBN) conductors to each other and bond the access floor pedestals to the conductors
- Specifically designed to bond perpendicular MCBN conductors per TIA-607-C
- Bond to the pedestal with a single bolt to simplify installation
- Accommodate conductors from #6 – 1/0 AWG, minimizes inventory requirements
- Bond round and square access floor pedestals for greater flexibility









Part Number	Round Pedestal (In.)	Square Pedestal (In.)	MCBN Conductor Size Range AWG (mm2)	Figure Dimensions In. (mm)			Std. Pkg. Qty.	Std. Ctn. Qty.
				D	W	H		
GPQC07-1/0	3/4 – 7/8	—	#6 SOL – 1/0 STR (16 – 50)	4.25 (108.0)	3.38 (85.9)	3.19 (81.0)	1	10
GPQC10-1/0	1 – 1 1/8	7/8		4.19 (106.4)	3.38 (85.9)	3.19 (81.0)		
GPQC12-1/0	1 1/4	—		4.53 (115.1)	3.44 (87.4)	3.19 (81.0)		
GPQC15-1/0	1 1/2	—		4.47 (113.5)	3.44 (87.4)	3.19 (81.0)		
GPQC17-1/0	1 3/4	—		5.19 (131.8)	4.00 (101.6)	3.19 (81.0)		
GPQC20-1/0	2	—		5.06 (128.5)	4.00 (101.6)	3.19 (81.0)		

Order number of pieces required, in multiples of Standard Package Quantity.

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BICSI/TIA-607-C Telecommunications Grounding Busbars

Type GB

- Meets BICSI and TIA-607-C requirements for network systems grounding applications
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Comes pre-assembled with brackets and insulators attached for quick installation
- Insulators provide 600 V of insulation
- Use Panduit self-laminating laser/ink jet labels to identify busbars to meet TIA/EIA-606-B, see chart below



TGB



TMGB

Part Number	Bar Size	No. of Mounting Positions		Std. Pkg. Qty.
		1/4" Stud Hole with 5/8" Hole Spacing	3/8" Stud Hole with 1" Hole Spacing	
Telecommunications Grounding Busbars (TGB)				
GB2B0304TPI-1	1/4" x 2" x 10"	4	3	1
GB2B0306TPI-1	1/4" x 2" x 12"	6		
GB2B0312TPI-1	1/4" x 2" x 20"	12		
GB2B0514TPI-1	1/4" x 2" x 24"	14	5	
Telecommunications Main Grounding Busbars (TMGB)				
GB4B0612TPI-1	1/4" x 4" x 12"	12	6	1
GB4B0624TPI-1	1/4" x 4" x 24"	24		
GB4B1028TPI-1	1/4" x 4" x 28"	28	10	

For additional label sizes, materials, and print technologies and to see the complete line of Panduit identification products, see pages E1.1 – E2.29.

Component Labels for BICSI/TIA-607-C Telecommunications Grounding Busbars



Suggested Label Solutions for TIA/EIA-606-B Compliance				
Telecommunications Grounding Busbar Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	PanTher™ LS8E Hand-Held Printer Label	Cougar™ LS9 Hand-Held Printer Label
All GB2B and GB4B Parts	C200X100FJJ	C200X100YPT	C200X100FJC	T100X000VPC-BK

For complete labeling solutions and product information, reference charts on pages E1.1 – E2.29.

Telecommunications Grounding and Bonding Conductor Label Kit

- Meets labeling requirements of TIA-607-C; each telecommunications grounding and bonding conductor shall be labeled as close as practicable to its point of termination in a readable position
- Can be applied as a wrap-around marker (parallel to cable) or flag marker (45° or 90°) to cable
- Kit includes everything needed to properly label cables; ten flame retardant cable ties and ten rigid plastic yellow tags printed with "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER."



Part Number	Part Description	Std. Pkg. Qty.
LTYK	Label kit includes ten printed tags and ten flame retardant cable ties.	1

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NEMA Hole Pattern Grounding Busbars

Type GBN

- Provided with standard NEMA hole pattern spacing
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Come pre-assembled with brackets and insulators attached for quick installation
- Insulators provide 600 V of insulation



Part Number	Bar Size	No. of Mounting Positions 1/2" Stud Hole with 1 3/4" Hole Spacing	Std. Pkg. Qty.
GB4N0007TPI-1	1/4" x 4" x 12"	7	1
GB4N0016TPI-1	1/4" x 4" x 24"	16	
GB4N0024TPI-1	1/4" x 4" x 36"	24	
GB4N0026TPI-1	1/4" x 4" x 48"	26	
GB4N0034TPI-1	1/4" x 4" x 60"	34	

Grounding Busbar 1" Hole Spacings

Type GBD

- Provided with 1" hole D pattern spacing
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Come pre-assembled with brackets and insulators attached for quick installation
- Insulators provide 600 V of insulation



Part Number	Bar Size	No. of Mounting Positions 7/16" Stud Hole with 1" Hole Spacing	Std. Pkg. Qty.
GB2D0008TPI-1	1/4" x 2" x 12"	8	1
GB2D0021TPI-1	1/4" x 2" x 24"	21	
GB2D0033TPI-1	1/4" x 2" x 36"	33	
GB2D0044TPI-1	1/4" x 2" x 48"	44	
GB2D0056TPI-1	1/4" x 4" x 60"	56	

Order number of pieces required, in multiples of Standard Package Quantity.

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NEW! Bare Grounding Busbars

Type GB2A, GB4A

- New hole patterns to fit a variety of application needs
- cULus listed for grounding and bonding
- Insulators provide up to 600V protection
- Now provided in bare copper for visual validation of copper composition



Part Number	Bar Size	Mounting Position Information	Std. Pkg. Qty.
GB2A18I	1/4" x 2" x 24"	18 hole sets with .28" dia thru-hole and 0.75" spacing	1
GB4A0803I	1/4" x 4" x 10"	6 hole sets and 6 #6-32 tapped holes	
GB4A0606I	1/4" x 4" x 12"	12 hole sets, 6 sets with .44" dia thru-hole and 1" spacing, 6 sets with .28" dia thru-hole and 0.75" spacing	
GB4A0808I	1/4" x 4" x 16"	16 hole sets, 8 sets with .44" dia thru-hole and 1" spacing, 8 sets with .13" dia thru-hole and 0.75" spacing	
GB4A00I	1/4" x 4" x 24"	Grounding Busbar without mounting holes	

Stainless Steel Hardware for Busbars

- Bulk hardware for attaching connectors to TMGBs and TGBs



Part Number	Part Description	Std. Pkg. Qty.
1/4" Hardware		
SSNTS1420-C	Stainless steel mounting hardware; 1/4" stainless steel bolts.	100
SSCW14-C	Stainless steel mounting hardware; 1/4" stainless steel Belleville washers (locking).	
SSFW14-C	Stainless steel mounting hardware; 1/4" stainless steel flat washers.	
SSN1420-C	Stainless steel mounting hardware; 1/4" stainless steel nuts.	
3/8" Hardware		
SSNTS3816-C	Stainless steel mounting hardware; 3/8" stainless steel bolts.	100
SSCW38-C	Stainless steel mounting hardware; 3/8" stainless steel Belleville washers (locking).	
SSFW38-C	Stainless steel mounting hardware; 3/8" stainless steel flat washers.	
SSN3816-C	Stainless steel mounting hardware; 3/8" stainless steel nuts.	
Hardware Kit		
GLMHK	Stainless steel hardware for use in mounting lugs for grounding plates and universal beam grounding clamps; includes: two hex head bolts 1/2-13 thread 1" long, two split lock washers for 1/2" diameter bolt, and two SAE flat washers for 1/2" diameter bolt.	1

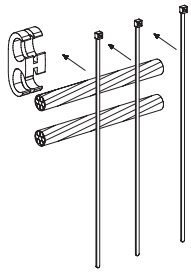
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E Style Grounding Connectors

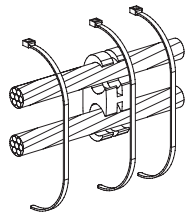
Type GCE

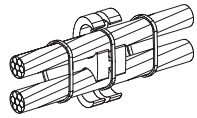
- Wide range-taking ability and multi-conductor design provide flexibility with a minimum number of parts, allowing for conductor to conductor, conductor to rebar, and conductor to ground rod applications
- Designed for the enhanced crimp process using patent pending technology meets IEEE Std 837*
- Slotted design allows quick and easy assembly of conductor to connector using Panduit cable ties, included
- Pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond, speeding installation
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit or industry standard crimping tools and Panduit dies
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)
- Not rated for use with galvanized ground rods and/or galvanized cable

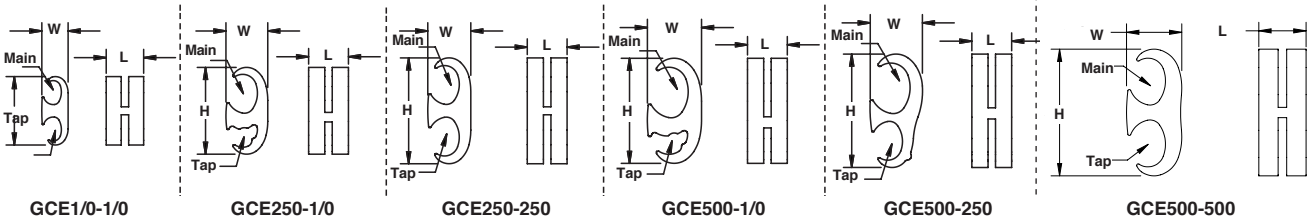




View using cable ties







GCE1/0-1/0 GCE250-1/0 GCE250-250 GCE500-1/0 GCE500-250 GCE500-500

Part Number	Element	Copper Conductor Size Range AWG (mm²)	Ground Rod Size In. (mm)	Rebar Size In. (mm)	Figure Dimensions In. (mm) L	W	H	Panduit Color Code	Panduit Part and Die Index No.	Std. Pkg. Qty.
GCE1/0-1/0	Main	#6 SOL – 1/0 STR (16 – 50)	—	—	0.94 (23.9)	0.66 (16.8)	1.72 (43.7)	Red	CD-930G-1/0 PG10	1
	Tap									
GCE250-1/0	Main	1/0 STR – 250 kcmil (70 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.05 (26.7)	2.18 (55.4)	Black	CD-930G-250 PG25	
	Tap	#6 SOL – 1/0 STR (16 – 50)	—	—	1.00 (25.4)	1.05 (26.7)	2.18 (55.4)			
GCE250-250	Main	1/0 STR – 250 kcmil (70 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.08 (27.4)	2.66 (67.6)			
	Tap				1.00 (25.4)	1.08 (27.4)	2.66 (67.6)			
GCE500-1/0	Main	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.36 (34.5)	2.64 (67.1)	Blue	CD-930G-500 PG50	
	Tap	#6 SOL – 1/0 STR (16 – 50)	—	—	1.00 (25.4)	1.36 (34.5)	2.64 (67.1)			
GCE500-250	Main	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.32 (33.4)	2.85 (72.4)			
	Tap	1/0 STR – 250 kcmil (70 – 120)	—	—	1.00 (25.4)	1.32 (33.4)	2.85 (72.4)			
GCE500-500* NEW!	Main	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.38 (35.1)	1.61 (41.0)	3.70 (94.0)	Yellow	CD-940G-500 PG55	
	Tap									

*GCE500-500 are not tested to IEEE STD 837
Contact customer service (cs@panduit.com) for specifics on compliance to IEEE Std 837 - 2014

Order number of pieces required, in multiples of Standard Package Quantity.

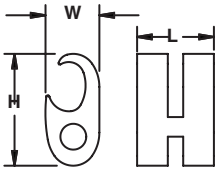
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Grounding Cross Connectors

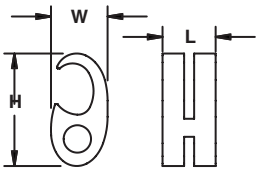
Type GCC

- Only a single die required to crimp each element, which speeds installation and reduces costs
- Wide range-taking ability and multi-conductor design provide flexibility with a minimum number of parts, allowing for conductor to conductor, conductor to rebar, and conductor to ground rod applications
- Designed for the enhanced crimp process using patent pending technology meets IEEE Std 837*
- Slotted design allows quick and easy assembly of conductor to connector using Panduit cable ties, included
- Pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond, speeding installation
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit or industry standard crimping tools and Panduit dies
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)
- Not rated for use with galvanized ground rods and/or galvanized cable

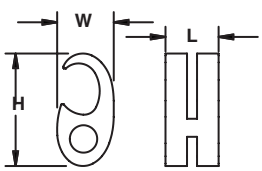




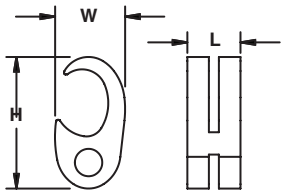
Element A



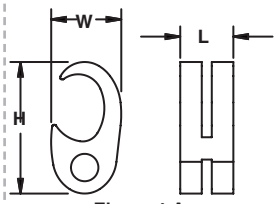
Element A



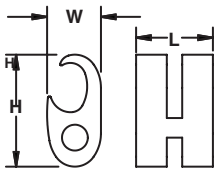
Element A



Element A

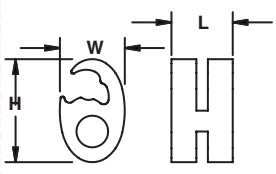


Element A



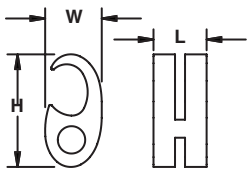
Element B

GCC6X61/0-1/0
3/8" ROD



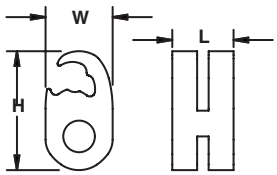
Element B

GCC6X6250-1/0
9/16" ROD



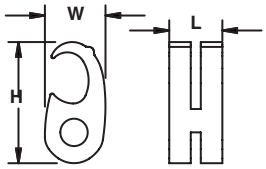
Element B

GCC6X6250-250
9/16" ROD



Element B

GCC6X6500-1/0
9/16" ROD



Element B

GCC6X6500-250
9/16" ROD

Part Number	Element	Copper Conductor Size Range AWG (mm²)	Ground Rod Size In. (mm)	Rebar Size In. (mm)	Figure Dimensions In. (mm) L	W	H	Panduit Color Code	Panduit Part and Die Index No.	Std. Pkg. Qty.
GCC6X61/0-1/0	A	#6 SOL – 1/0 STR (16 – 50)	—	—	0.94 (23.9)	0.66 (16.8)	1.37 (34.8)	Red	CD-930G-1/0 PG10	1
	B									
GCC6X6250-1/0	A	#2 SOL – 250 kcmil (35 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.06 (26.9)	2.12 (53.8)	Black	CD-930G-250 PG25	
	B	#6 SOL – 1/0 STR (16 – 50)	—	—	1.00 (25.4)	1.06 (26.9)	1.68 (42.7)			
GCC6X6250-250	A	#2 SOL – 250 kcmil (35 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.06 (26.9)	2.66 (67.6)			
	B				1.00 (25.4)	1.06 (26.9)	2.66 (67.6)			
GCC6X6500-1/0	A	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.32 (35.5)	2.48 (63.0)	Blue	CD-930G-500 PG50	
	B	#6 SOL – 1/0 STR (16 – 50)	—	—	1.00 (25.4)	1.09 (27.7)	1.94 (49.3)			
GCC6X6500-250	A	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.32 (33.5)	2.48 (63.0)			
	B	#2 SOL – 250 kcmil (35 – 120)	—	—	1.00 (25.4)	1.16 (29.5)	2.29 (58.2)			

*Contact customer service (cs@panduit.com) for specifics on compliance to IEEE Std 837 - 2014

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Universal Beam Grounding Clamp

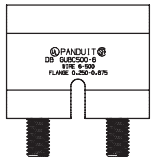
IEEE DB RATED UL LISTED CSA CERTIFIED PATENTED

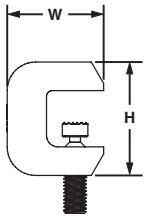
Type GUBC

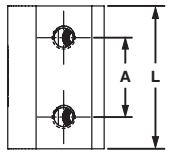
- Universal, fits on a wide range of standard (angled) and wide flange (parallel) structural steel beams
- Provide a mounting pad suitable for a two-hole compression lug
- Install quickly and easily with standard 1/4" key hex wrench tooling
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete
- Comply with vibration tests per MIL-STD-202G (METHOD 201A)



GUBC500-6









GUBC500-6TP



GUBC4/0-6

Part Number	Material	Copper Conductor Size Range AWG (mm²)	Flange Thickness In. (mm)	Thread Size In.	Hex Size	Figure Dimensions In. (mm)				Std. Pkg. Qty.
						A	L	W	H	
GUBC500-6	Copper	#6 AWG – 500 kcmil (16 – 240)	0.250 – 0.675 (6.3 – 17.1)	1/2 – 13	1/4	1.75 (44.4)	3.15 (80.0)	2.13 (54.0)	2.50 (63.5)	1
NEW! **GUBC500-6TP**	Tin-plated Copper									
NEW! **GUBC4/0-6***	Stainless Steel	#6 AWG – 4/0 AWG (16 – 240)	0.250 – 0.675 (6.3 – 17.1)	N/A	1/4	1.75 (44.4)	2.75 (69.85)	1.65 (41.91)	1.90 (48.26)	

For stainless steel mounting hardware kit, see part number GLMHK on page D3.7, D3.10.
*Not IEEE 837 tested or vibration tested

Hardware Kit



Part Number	Part Description	Std.Pkg. Qty.
GLMHK (1 Kit per Lug)	Stainless steel hardware for use in mounting lugs for grounding plates and universal beam grounding clamps; includes: two hex head bolts 1/2-13 thread 1" long, two split lock washers for 1/2" diameter bolt, and two SAE flat washers for 1/2" diameter bolt	1

Order number of pieces required, in multiples of Standard Package Quantity.

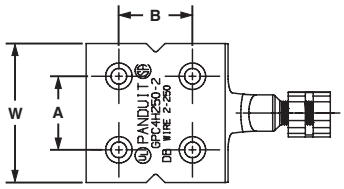
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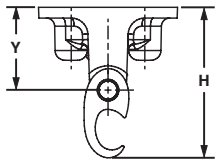
Grounding Plate Connector

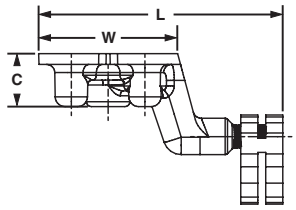
Type GPC

- Slotted design allows quick and easy assembly of conductor to connector using Panduit cable ties, included
- Pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond, speeding installation
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)
- Made from high conductivity copper; provides strength and premium electrical properties
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit or industry standard crimping tools and Panduit dies









Part Number	Copper Conductor Size Range AWG (mm²)	Thread Size In.	Figure Dimensions In. (mm)							Panduit Color Code	Panduit Part and Die Index No.	Std. Pkg. Qty.
			L	W	H	Y	A	B	C			
GPC4H250-2	#2 SOL – 250 kcmil (35 – 120)	1/2 – 13	5.81 (147.5)	3.31 (84.0)	3.58 (90.9)	1.97 (50.0)	1.75 (44.4)	1.75 (44.4)	1.26 (32.0)	Black	CD-930G-250 PG25	1

For stainless steel mounting hardware kit, see part number GLMHK (1 Kit per lug) on page D3.7, D3.10.

Code Conductor, Thin Wall, CTAP

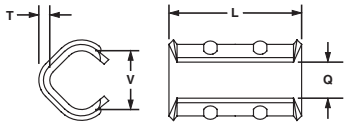
For Copper Code Stranded Connections

Type CTAPF

- For copper-to-copper tapping, splicing or pigtailing
- Wide wire range-taking capability minimizes inventory requirements
- Color-coded for proper crimp die selection
- Ribbed design provides high strength
- Made from high conductivity wrought copper
- UL Listed and CSA Certified to 600 V and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies^







Part Number	Copper Conductor Size		Number of Ribs	Figure Dimensions In. (mm)				Panduit Color Code	Wire Strip Length In. (mm)	Std. Pkg. Qty.
	AWG Run (mm²)	AWG Tap (mm²)		L	T	V	Q			
CTAPF10-16-C*	#14 AWG (2.5)	#16 – #14 AWG (1.5 – 2.5)	0	0.41 (10.4)	0.06 (1.5)	0.19 (4.8)	0.13 (3.3)	Red	1/2 (12.7)	100
	#12 AWG (4.0)	#16 – #12 AWG (1.5 – 4.0)								
	#10 AWG (6.0)	#14 AWG (2.5)								
CTAPF8-12-C‡	#10 AWG (6.0)	#10 AWG (6.0)	0	0.67 (17.0)	0.07 (1.8)	0.26 (6.6)	0.19 (4.8)	Blue	11/16 (17.5)	
	#8 AWG (10.0)	#12 AWG (4.0)								
CTAPF6-12-C‡	#8 AWG (10.0)	#10 – #8 AWG (6.0 – 10.0)	0	0.67 (17.0)	0.07 (1.8)	0.32 (8.1)	0.24 (6.1)	Gray	11/16 (17.5)	
	#6 AWG (16.0)	#12 – #10 AWG (4.0 – 6.0)								
CTAPF4-12-C‡	#6 AWG (16)	#8 – #6 AWG (10 – 16)	1	1.25 (31.8)	0.07 (1.8)	0.40 (10.2)	0.28 (7.1)	Brown	1 5/16 (33.3)	
	#5, #4 AWG (16, 25)	#12 – #8 AWG (4 – 10)								

*CTAPF10-16-C available with square, not flared ends.
All parts available in tin-plated; add TP before packaging code – example: CTAPF6-12**TP**-C.
^Note: CTAPF parts are UL Listed and CSA Certified with AWG wire only.
‡CSA Certified for grounding and bonding.
Not Direct Burial Rated.

Continued on next page

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Code Conductor, Thin Wall, CTAP (continued)

Part Number	Copper Conductor Size		Number of Ribs	Figure Dimensions In. (mm)				Panduit Color Code	Wire Strip Length In. (mm)	Std. Pkg. Qty.
	AWG Run (mm²)	AWG Tap (mm²)		L	T	V	Q			
CTAPF3-12-C‡	#5, #4 AWG (16, 25)	#6 – #5 AWG (16)	1	1.25 (31.8)	0.08 (2.0)	0.46 (11.7)	0.31 (7.9)	Green	1 5/16 (33.3)	100
	#3 AWG (25)	#12 – #6 AWG (4 – 16)								
CTAPF2-12-C‡	#4 AWG (25)	#4 AWG (25)	1	1.25 (31.8)	0.08 (2.0)	0.51 (13.0)	0.33 (8.4)	Pink	1 5/16 (33.3)	
	#3 AWG (25)	#5 AWG (16)								
	#2 AWG (35)	#12 – #6 AWG (4 – 16)								
CTAPF1-12-C	#3 AWG (25)	#4 – #3 AWG (25)	2	1.82 (46.2)	0.08 (2.0)	0.57 (14.5)	0.40 (10.2)	Black	1 7/8 (47.6)	100
	#2 AWG (35)	#5 – #4 AWG (16 – 25)								
	#1 AWG (35)	#12 – #5 AWG (4 – 16)								
CTAPF1/0-12-L	#2 AWG (35)	#4 – #2 AWG (25 – 35)	2	1.82 (46.2)	0.09 (2.3)	0.63 (16.0)	0.42 (10.7)	Orange	1 7/8 (47.6)	50
	#1 AWG (35)	#4 – #3 AWG (25)								
	1/0 AWG (50)	#12 – #4 AWG (4 – 25)								
CTAPF2/0-12-Q	#1 AWG (35)	#2 – #1 AWG (35)	2	1.82 (46.2)	0.09 (2.3)	0.71 (18.0)	0.48 (12.2)	Purple	1 7/8 (47.6)	25
	1/0 AWG (50)	#3 – #2 AWG (25 – 35)								
	2/0 AWG (70)	#12 – #3 AWG (4 – 35)								
CTAPF3/0-12-Q	1/0 AWG (50)	#1 – 1/0 AWG (50)	2	1.82 (46.2)	0.09 (2.3)	0.81 (20.6)	0.55 (14.0)	Yellow	1 7/8 (47.6)	
	2/0 AWG (70)	#2 – #1 AWG (35)								
	3/0 AWG (95)	#12 – #2 AWG (4 – 35)								

*CTAPF10-16-C available with square, not flared ends.
All parts available in tin-plated; add TP before packaging code – example: CTAPF6-12**TP**-C**.**
^Note: CTAPF parts are UL Listed and CSA Certified with AWG wire only.
‡CSA Certified for grounding and bonding.
Not Direct Burial Rated.

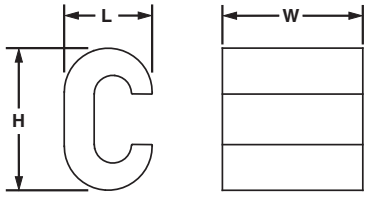
Code Conductor, Heavy Duty, CTAP

For Use with Solid and Stranded Copper Code Conductors

Type CTAP

- For tapping into unbroken continuous main, as a wire joint or two-way splice
- Wide wire range-taking capability minimizes inventory requirements
- Made from heavy wall, extruded, high conductivity copper; provides high strength and premium electrical properties
- UL Listed per UL 486 for use up to 35 KV** and temperature rated 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed per UL 467 for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit and specified competitor crimping tools and dies^





Part Number	Copper Conductor Size		Figure Dimensions In. (mm)			Panduit Die Index No.‡	Burndy Die Index No.‡	Wire Strip Length In. (mm)	Tap Cover*	Std. Pkg. Qty.
	AWG Run (mm²)	AWG Tap (mm²)	L	T	V					
CTAP4-8-L	#6 – #4 AWG SOL or STR	#8 AWG SOL or STR	0.46 (11.7)	0.63 (16.0)	0.73 (18.5)	PBG	BG	3/4 (19)	CVR6-1	50
CTAP4-6-L	#6 AWG STR, #4 AWG SOL or STR	#6 AWG SOL or STR	0.48 (12.2)		0.76 (19.3)					

*See page D3.14 for type CVR CTAP covers.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^Note: CTAP parts are UL Listed and CSA Certified with AWG wire only.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Code Conductor, Heavy Duty, CTAP (continued)

Part Number	Copper Conductor Size		Figure Dimensions In. (mm)			Panduit Die Index No.‡	Burndy Die Index No.‡	Wire Strip Length In. (mm)	Tap Cover*	Std. Pkg. Qty.
	AWG Run (mm²)	AWG Tap (mm²)	L	T	V					
CTAP4-4-L	#4 AWG SOL or STR	#4 AWG STR	0.46 (11.7)	0.63 (16.0)	0.81 (20.6)	PBG	BG	3/4 (19)	CVR6-1	50
CTAP2-4-Q	#2 AWG SOL or STR	#8 – #4 AWG SOL or STR	0.60 (15.2)	0.76 (19.3)	0.96 (24.4)	PC	C	7/8 (22)	CVR2-1	25
CTAP4-8-L	#6 – #4 AWG SOL or STR	#8 AWG SOL or STR	0.46 (11.7)	0.63 (16.0)	0.73 (18.5)	PBG	BG	3/4 (19)	CVR6-1	50
CTAP4-6-L	#6 AWG STR, #4 AWG SOL or STR	#6 AWG SOL or STR	0.48 (12.2)	0.63 (16.0)	0.76 (19.3)					
CTAP4-4-L	#4 AWG SOL or STR	#4 AWG STR	0.46 (11.7)	0.63 (16.0)	0.81 (20.6)					
CTAP2-4-Q	#2 AWG SOL or STR	#8 – #4 AWG SOL or STR	0.60 (15.2)	0.76 (19.3)	0.96 (24.4)	PC	C	7/8 (22)	CVR2-1	25
CTAP2-2-X		#2 AWG SOL or STR	0.60 (15.2)	0.75 (19.0)	1.05 (26.7)				CVR2-1	10
CTAP2/0-2-X	1/0 – 2/0 AWG STR	#8 – #2 AWG SOL or STR	0.80 (20.3)	0.93 (23.6)	1.32 (8.1)	PO	O	1 1/16 (27)	CVR2-1	10
CTAP2/0-2/0-X		1/0 – 2/0 AWG STR	0.80 (20.3)	0.93 (23.6)	1.37 (34.8)				CVR250-1	
CTAP4/0-2-X	3/0 – 4/0 AWG STR	#6 – #2 AWG SOL or STR	0.94 (23.9)	1.08 (27.4)	1.66 (42.2)	PD3	F	1 1/4 (32)	CVR500-1	10
CTAP4/0-2/0-X		1/0 – 2/0 AWG STR	1.00 (25.4)	1.08 (27.3)	1.57 (39.9)					
CTAP4/0-4/0-X		3/0 – 4/0 AWG STR	1.00 (25.4)	1.08 (27.4)	1.57 (39.9)					

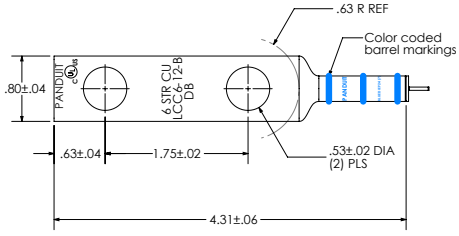
*See page D3.14 for type CVR CTAP covers.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
‡Visit www.panduit.com/tools for tool and die information.
^Note: CTAP parts are UL Listed and CSA Certified with AWG wire only.
Not UL/CSA approved for use with metric wire. See GCE & GCC series parts for UL/CSA approved connections for metric wire (Pages D3.8, D3.9).

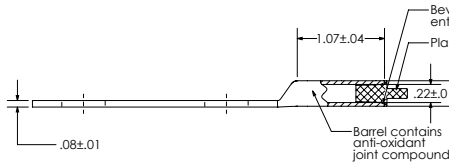
Code Conductor, Two-Hole, Standard Barrel, Direct Burial Lug for Use with Stranded Copper Conductors

Type LCC-B

- Pre-filled with anti-oxidant paste to provide a high quality mechanical and electrical bond
- Provided with standard NEMA hole spacing
- cULus listed and Direct Burial rated for grounding and bonding applications







Part Number	Copper Conductor Size	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Panduit Color Code	Panduit Die Index No.	Burndy Die Index No.	T&B Die Index No.	Wire Strip Length (In.)	Std. Pkg. Qty.
LCC6-12-B-L	#6 AWG	1/2	1.75	Blue	P24	7	24	1 1/8	50
LCC2-12-B-Q	#2 AWG			Brown	P33	10	33	1 1/4	25
LCC1/0-12-B-X	1/0 AWG			Pink	P42	12	42	1 1/2	10
LCC2/0-12-B-X	2/0 AWG			Black	P45	13	45	1 9/16	
LCC4/0-12-B-X	4/0 AWG			Purple	P54	15	54	1 5/8	
LCC250-12-B-X	250 kcmil			Yellow	P62	16	62	1 11/16	
LCC500-12-B-6	500 kcmil			Brown	P87	20	87	2 9/16	6

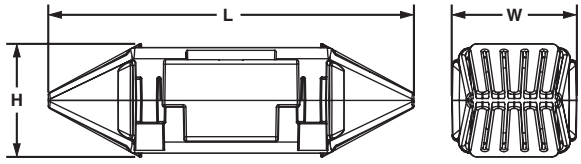
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Clear Covers for HTCT HTAPs

Type CLRCVR

- Made of high impact plastic to provide high impact strength and 360° inspections of crimped connection to assure the crimp is complete and the correct die was used
- Incorporate dual self-latching spring loaded latches and supplied with two Panduit UL 94 V-0 cable ties to allow for easy snap-on assembly and ensure covers are secured
- Low profile design minimizes space requirements
- Each cover half supports installation information labels inside plastic retainer strips to allow labels to be viewed on either side of cover and to protect labels from being removed
- Incorporate molded in flash barriers which encompass the HTAP installation providing protection against electrical flash over
- UL 94 V-0 flame rating and oxygen index of 28 providing self-extinguishing, flame retardant properties
- Part number, voltage rating, temperature rating and HTCT part number molded into cover for easy identification



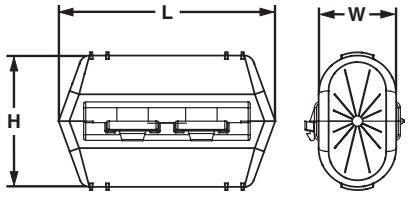


Part Number	Use With HTAP Part Number	Figure Dimensions In. (mm)			Std. Pkg. Qty.
		L	W	H	
CLRCVR1-1	HTCT6X-6X	4.48 (113.8)	1.41 (35.8)	2.13 (54.0)	1
CLRCVR2-1	HTCT2-2	5.10 (129.5)	1.66 (42.2)	1.40 (35.6)	
CLRCVR3-1	HTCT250-2, HTCT250-250	5.35 (135.9)	2.16 (54.9)		

Black Covers for Copper HTAPs and CTAPs

- Used to insulate connectors and protect tap connections from corrosive environments
- UL Listed and CSA Certified with approved connectors for use up to 600 V and temperature rated to 90° C
- Made of durable, weather-resistant black polypropylene
- Double locking latches provide secure cover installation





Part Number	Use with CTAP Part Number	Use with HTAP Part Number	Figure Dimensions In.			Std. Pkg. Qty.
			L	W	H	
CVR6-1	CTAP4-8-L, CTAP4-6-L, CTAP4-4-L	HTCT6X-6X-1	2.00	1.20	1.26	1
CVR2-1	CTAP2-4-Q, CTAP2-2-X, CTAP2/0-2-X	HTCT2-2-1	3.38	1.40	2.00	
CVR250-1	CTAP2/0-2/0-X	HTCT250-2-1, HTCT250-250-1	3.38	1.55	2.05	
CVR500-1*	CTAP4/0-2-X, CTAP4/0-2/0-X, CTAP4/0-4/0-X	—	3.86	1.97	2.66	
CVR1000-1*	—	—	5.62	2.45	3.72	

For information on copper HTAPs, see page D3.15
For information on copper CTAPs, see page D3.12, D3.13
*Not CSA Certified.

Order number of pieces required, in multiples of Standard Package Quantity.

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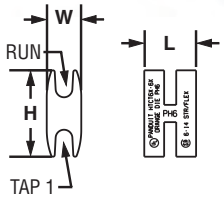
Code/Flex Conductor HTAP

For Making Parallel and Multiple Tap Connections on Code and Flex Conductors

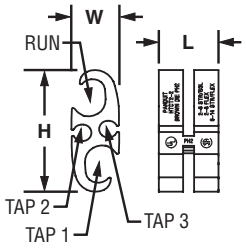
Type HTCT

- Used to tap into continuous conductors as a splice or pigtailing
- Each HTAP terminates a wide range of conductor sizes and combinations of code and flex conductors Class G, H, I and Diesel Locomotive to suit a variety of applications
- Slotted design allows quick and easy assembly of conductor to HTAP using three Panduit 94V-0 cable ties included
- Tap grooves are separated from one another allowing them to function independently so HTAP can be used with a single or multiple taps providing maximum design and installation flexibility
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL Listed and CSA Certified for applications up to 600 V when crimped with Panduit and specified competitor crimping tools and Panduit crimping dies^
- Tin-plated to inhibit corrosion

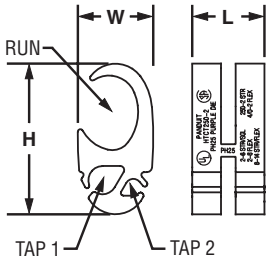




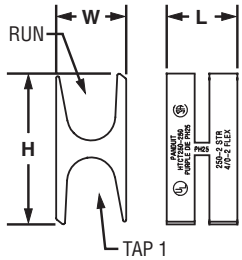
HTCT6X-6X



HTCT2-2



HTCT250-2



HTCT250-250

Part Number	Copper Conductor Size Range					Figure Dimensions In. (mm)			Panduit Die Color and Die No.	Wire Strip Length In. (mm)	Std. Pkg. Qty.
	Wire Strand Type	Run	Tap 1	Tap 2	Tap 3	L	W	H			
HTCT6X-6X-1	Code	#6 – #14 AWG (10 – 2.5)	#6 – #14 AWG (10 – 2.5)	— —	— —	0.60 (15.2)	0.40 (10.2)	1.00 (25.4)	Orange PH6	11/16 (18)	1
	Flex			— —	— —						
HTCT2-2-1	Code	#2 – #6 AWG STR/SOL (25 – 16)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	#8 – #14 AWG (6 – 2.5)	0.76 (19.3)	0.61 (15.5)	1.55 (39.4)	Brown PH2	13/16 (21)	
	Flex	#2 – #8 AWG (25 – 10)	#2 – #8 AWG (25 – 10)								
HTCT250-2-1	Code	250 kcmil – #2 AWG (120 – 35)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	— —	0.92 (23.4)	0.96 (24.4)	1.92 (48.8)	Purple PH25	1 (25)	
	Flex	4/0 – #2 AWG (95 – 35)	#2 – #8 AWG (25 – 10)		— —						
HTCT250-250-1	Code	250 kcmil – #2 AWG (120 – 35)	250 kcmil – #2 AWG (120 – 35)	— —	— —	0.90 (22.9)	0.89 (22.6)	1.92 (48.8)	Purple PH25	1 (25)	
	Flex	4/0 – #2 AWG (95 – 35)	4/0 – #2 AWG (95 – 35)	— —	— —						

^Note: HTCT parts are UL Listed and CSA Certified with AWG wire only.

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Code/Flex Conductor HTAP Kit

Type HTWC

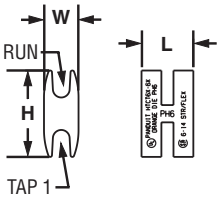
- Include all components to make a complete HTAP and cover installation: HTCT HTAP, matching CLRCVR clear cover, and cable ties
- Each HTCT HTAP designed to terminate a wide range of copper code and flex conductor combinations to accommodate a variety of applications
- HTAPs incorporate a unique slotted design that allows for quick and easy installation using supplied Panduit cable ties; saves time and cost
- Matching clear covers are made from high impact plastic and provide high impact strength and 360° viewing of installed HTAP
- Clear covers have a UL 94 V-0 flame rating and an oxygen index of 28 providing self-extinguishing, flame retardant properties
- UL Listed and CSA Certified for applications up to 600 V when crimped with Panduit and specified competitor crimping tools and Panduit crimping dies^



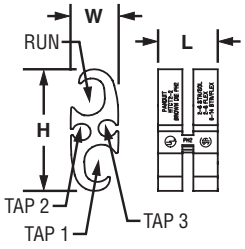




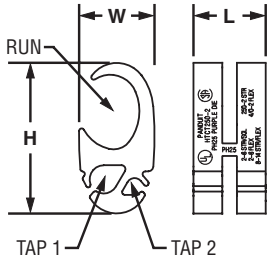




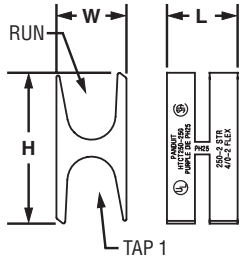
HTCT6-6



HTCT2-2



HTCT250-2



HTCT250-250

Part Number	Components		Copper Conductor Size Range AWG (mm²)					Std. Pkg. Qty.
	HTAP Part No.	Clear Cover Part No.	Wire Strand Type	Run	Tap 1	Tap 2	Tap 3	
HTWC6X-6X-1	HTCT6X-6X-1	CLRCVR1-1	Code	#6 – #14 AWG (10 – 2.5)	#6 – #14 AWG (10 – 2.5)	— —	— —	1
			Flex	#6 – #10 AWG (10 – 2.5)		— —	— —	
HTWC2-2-1	HTCT2-2-1	CLRCVR2-1	Code	#2 – #6 AWG STR/SOL (25 – 16)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	#8 – #14 AWG (6 – 2.5)	
			Flex	#2 – #8 AWG (25 – 10)	#2 – #8 AWG (25 – 10)			
HTWC250-2-1	HTCT250-2-1	CLRCVR3-1	Code	250 kcmil – #2 AWG (120 – 35)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	— —	
			Flex	4/0 – #2 AWG (95 – 35)	#2 – #8 AWG (25 – 10)		— —	
HTWC250-250-1	HTCT250-250-1	CLRCVR3-1	Code	250 kcmil – #2 AWG (120 – 35)	250 kcmil – #2 AWG (120 – 35)	— —	— —	
			Flex	4/0 – #2 AWG (95 – 35)	4/0 – #2 AWG (95 – 35)	— —	— —	

See pages D3.14 – D3.15 for more information on HTAPs and clear covers, including tap sizes and locations.
^Note: HTCT parts are UL Listed and CSA Certified with AWG wire only.

Order number of pieces required, in multiples of Standard Package Quantity.

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Panduit® Grounding Connector Approvals

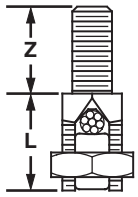
Logo (Symbol)	Agency	Spec/Approval	Applicable Products
c UL us LISTED	Underwriters Laboratories, Inc.	UL 486A Wire Connectors and Soldering Lugs for use in US and Canada	As shown on product pages.
UL LISTED		UL 486A – 486B Wire Connectors and Soldering Lugs for use in US	
c UL us LISTED		UL 467 Grounding and Bonding Equipment for use in US and Canada	
UL LISTED		UL 467 Grounding and Bonding Equipment for use in US	
CSA CERTIFIED	Canadian Standards Association	C22.2 No. 65-03 Wire Connectors	
CSA CERTIFIED		C22.2 No. 41-M1987 (R1999) Grounding and Bonding Equipment	
IEEE	Institute of Electrical and Electronics Engineers	IEEE Std. 837 IEEE Standard for Qualifying Permanent Connection used in Substation Grounding	

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Bronze Service Post Connector, Male Stud, Single Conductor

- For grounding one copper code conductor to steel structures, busbars, or transformers or for tapping from busbar with hex nut and washer
- Made from high copper content, hard drawn copper rod provides high strength
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





Type SP1 — Premium Grade

- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches for easy installation process
- Offered with standard and long stud lengths for optimized fit of the threaded stud through the mounting surface

Type GSP1 — Value Grade

- Incorporates longer stud length than standard SP1 stud length to accommodate a variety of mounting applications
- Greater wire range-taking capability allows one GSP1 part to substitute for up to four SP1 parts (see Table for comparatives) — reduces inventory, saves costs

Part Number	Conductor Size Range (AWG)	Stud Size* (UNC Threads)	Figure Dimensions (In.)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SP1-8-C	#12 SOL – #8 STR	1/4 – 20	0.63	0.50	0.50	0.38	100
SP1-8L-C			0.63	1.00	0.50	0.38	
NEW! GSP1-12-6-C[1]	#12 SOL – #6 STR		0.87	0.83	0.69	0.56	
SP1-7-C	#8 SOL – #7 STR		0.88	0.50	0.69	0.50	
SP1-7L-C			0.88	1.00	0.69	0.50	
SP1-4-C	#10 SOL – #4 STR	5/16 – 18	0.94	0.56	0.75	0.56	100
SP1-4L-C			0.94	1.00	0.75	0.56	
NEW! GSP1-10-4-C[2]			1.06	0.83	0.81	0.69	
SP1-3-C	#6 SOL – #3 STR	3/8 – 16	1.06	0.63	0.81	0.63	100
SP1-3L-C			1.06	1.13	0.81	0.63	
NEW! GSP1-6-2-C[3]	#6 SOL – #2 STR		1.06	0.83	0.81	0.69	
SP1-2-C	#4 STR – #2 STR		1.06	0.63	0.88	0.69	
SP1-2L-C			1.06	1.13	0.88	0.69	
SP1-1/0-L	#6 SOL – 1/0 STR	1/2 – 13	1.31	0.75	1.00	0.75	50
SP1-1/0L-L			1.31	1.25	1.00	0.75	
NEW! GSP1-4-2/0-L[4]	#4 SOL – 2/0 STR	3/8 – 16	1.32	0.83	1.06	0.88	
SP1-2/0-Q	#1 SOL – 2/0 STR	1/2 – 13	1.44	0.75	1.13	0.88	25
SP1-2/0L-Q			1.44	1.25	1.13	0.88	
SP1-4/0-Q	3/0 SOL – 4/0 STR	5/8 – 11	1.69	1.00	1.38	1.13	
SP1-4/0L-Q			1.69	1.50	1.38	1.13	
SP1-350-12	4/0 SOL – 350 kcmil		2.00	1.00	1.50	1.25	12
SP1-350L-12			2.00	1.50	1.50	1.25	
SP1-500-12	250 kcmil – 500 kcmil	3/4 – 10	2.31	1.38	1.81	1.50	
SP1-500L-12			2.31	1.75	1.81	1.50	

*Type GSP1 does not have a true hex body. Apply open-end wrench to body width normal to conductor slot

[1]Alternate offering for SP1-8 and SP1-7. Review stud length (Dim. Z) for potential replacement for SP1-8L and SP1-L7

[2]Alternate offering for SP1-4. Review stud length (Dim. Z) for potential replacement for SP1-4L

[3]Alternate offering for SP1-3 and SP1-2. Review stud length (Dim. Z) for potential replacement for SP1-3L and SP1-2L

[4]Alternate offering for SP1-1/0 and SP1-2/0. Note stud size difference. Review stud length (Dim. Z) for potential replacement for SP1-1/0L and SP1-2/0L

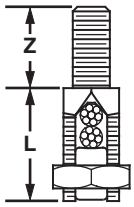
Order number of pieces required, in multiples of Standard Package Quantity.

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Bronze Service Post Connector, Male Stud, Two Conductor

- For grounding two copper code conductors to steel structures, busbars, or transformers or for tapping from busbar with hex nut and washer
- Made from high copper content, hard drawn copper rod provides high strength
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





Type SP2 — Premium Grade

- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches for easy installation process
- Offered with standard and long stud lengths for optimized fit of the threaded stud through the mounting surface

Type GSP2 — Value Grade

- Incorporates longer stud length than standard SP2 stud length to accommodate a variety of mounting applications
- Greater wire range-taking capability allows one GSP2 part to substitute for up to four SP2 parts (see Table for comparatives) — reduces inventory, saves costs

Part Number	Conductor Size Range (AWG)	Stud Size* (UNC Threads)	Figure Dimensions (In.) L	Figure Dimensions (In.) Z	Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
SP2-8-C	#12 SOL – #8 STR	1/4 – 20	0.75	0.50	0.50	0.38	100
SP2-8L-C			0.75	1.00	0.50	0.38	
NEW! GSP2-12-6-C[1]	#12 SOL – #6 STR		0.94	0.83	0.69	0.56	
SP2-7-C	#10 SOL – #7 STR		1.00	0.50	0.69	0.50	
SP2-7L-C			1.00	1.00	0.69	0.50	
SP2-4-C	#10 SOL – #4 STR	5/16 – 18	1.16	0.56	0.75	0.56	100
SP2-4L-C			1.16	1.00	0.75	0.56	
NEW! GSP2-10-4-C[2]			1.30	0.83	0.81	0.69	
SP2-3-C	#10 SOL – #3 STR	3/8 – 16	1.09	0.63	0.81	0.63	100
SP2-3L-C			1.09	1.13	0.81	0.63	
NEW! GSP2-10-2-C[3]	#10 SOL – #2 STR		1.30	0.83	0.81	0.69	
SP2-2-C	#10 STR – #2 STR		1.38	0.63	0.88	0.69	
SP2-2L-C			1.28	1.13	0.88	0.69	
SP2-1/0-L	#2 SOL – 1/0 STR	1/2 – 13	1.69	0.75	1.00	0.75	50
SP2-1/0L-L			1.69	1.25	1.00	0.75	
NEW! GSP2-2-2/0-L[4]	#2 SOL – 2/0 STR	3/8 – 16	1.65	0.83	1.06	0.88	
SP2-2/0-Q		1/2 – 13	1.88	0.75	1.13	0.88	25
SP2-2/0L-Q			1.88	1.25	1.13	0.88	
SP2-4/0-Q	#1 SOL – 4/0 STR	5/8 – 11	2.25	1.00	1.38	1.13	25
SP2-4/0L-Q			2.25	1.50	1.38	1.13	
SP2-350-12	#1 STR – 350 kcmil		2.69	1.00	1.50	1.25	12
SP2-350L-12			2.69	1.50	1.50	1.25	
SP2-500-12	3/0 STR – 500 kcmil	3/4 – 10	3.19	1.38	1.81	1.50	12
SP2-500L-12			3.19	1.75	1.81	1.50	

*Type GSP1 does not have a true hex body. Apply open-end wrench to body width normal to conductor slot
[1]Alternate offering for SP2-8 and SP2-7. Review stud length (Dim. Z) for potential replacement for SP2-8L and SP2-L7
[2]Alternate offering for SP2-4. Review stud length (Dim. Z) for potential replacement for SP2-4L
[3]Alternate offering for SP2-3 and SP2-2. Review stud length (Dim. Z) for potential replacement for SP2-3L and SP2-2L
[4]Alternate offering for SP2-1/0 and SP2-2/0. Note stud size difference. Review stud length (Dim. Z) for potential replacement for SP2-1/0L and SP2-2/0L

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Copper and Aluminum One-Hole Grounding Lay-in Lug

Type LI

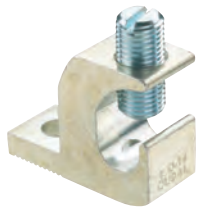
- Used for quick installation of a continuous grounding conductor
- UL 467 Listed for grounding and bonding; copper body lugs are UL Listed for direct burial in earth or concrete (aluminum body lugs are not direct burial rated)
- cULus Listed for use up to 600 V and temperature rated 90ºC
- Wire range-taking capability minimizes inventory requirements, saves cost



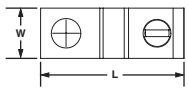
Copper

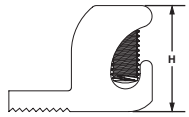


Tin-Plated Copper



Aluminum





Part Number	Set Screw Material	Conductor Size Range (AWG)	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
					L	W	H	
Copper Body								
LICC4-22-C	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.16	0.39	0.87	100
Tin-Plated Copper Body								
LICC4-22TP-C	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.16	0.39	0.87	100
Tin-Plated Aluminum Body*								
LIAC4-22-C*	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.06	0.39	0.78	100
LIAS1/0-14-L*	Zinc Plated Steel	#14 SOL – 1/0 STR	0.27	**	1.50	0.61	1.10	50
LIAS250-56-Q*		#6 SOL – 250 STR	0.33	1/4	2.20	0.80	1.70	25

*Not DB Rated.
**Uses slotted head set screw.
The use of Panduit oxide inhibiting joint compound (CMP) is recommended for pad and conductor connections.

Joint Compounds

Type CMP

- Oxide inhibitor for compression conductor connections lowers electrical resistance of compression joint while sealing out air and moisture to prevent the formation of surface oxides
- Wide operating temperature range; can be used in a wide range of electrical and environmental conditions
- Packaged in convenient dispenser bottles



Part Number	Part Description	Std. Pkg. Qty.
CMP-100-1	Contact aid for pad-to-pad or thread-to-thread aluminum connections, 8 oz. Operating temperature range -60°F (-51°C) to 400°F (204°C).	1
CMP-200-1	Contact aid for cable connections with compression connections made on aluminum conductor, 8 oz. Operating temperature range -40°F (-40°C) to 400°F (204°C). Compatible with all insulating materials.	
CMP-300-1	Contact aid for copper-to-copper and copper-to-steel connections, 8 oz. Operating temperature range -40°F (-40°C) to 350°F (177°C). Good for all voltages and suitable for grounding. Also used for anti-seizing thread lubricant.	
CMP-300-4-1	Contact aid for copper-to-copper and copper-to-steel connections, 4 oz. Operating temperature range -40°F (-40°C) to 350°F (177°C). Good for all voltages and suitable for grounding. Also used for anti-seizing thread lubricant.	

Order number of pieces required, in multiples of Standard Package Quantity.

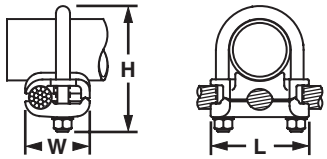
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Grounding Clamp, U-Bolt, Bronze

Type GPL

- Used to ground copper conductor parallel or at a right angle to a rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory requirements
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





Part Number	Ground Rod Size (In.)	Iron Pipe Size (In.)	Conductor Size Range	Figure Dimensions In. (mm) L	W	H	Bolt Dia. (In.)	Hex Size (In.)	Std. Pkg. Qty.
GPL-4-Q	5/8 or 3/4	3/8	#8 SOL – #4 STR	2.00 (50.8)	1.38 (35.1)	2.75 (69.9)	3/8	9/16	25
GPL-5-Q			#4 SOL – 2/0 STR	2.00 (50.8)	1.63 (41.4)	2.75 (69.9)			
GPL-6-Q			2/0 SOL – 250 kcmil	2.00 (50.8)	1.88 (47.8)	2.75 (69.9)			
GPL-8-Q	7/8 or 1	1/2 or 3/4	#8 SOL – #4 STR	2.38 (60.5)	1.38 (35.1)	2.63 (66.8)			
GPL-9-Q			#4 SOL – 2/0 STR	2.38 (60.5)	1.63 (41.4)	2.63 (66.8)			
GPL-10-Q			2/0 SOL – 250 kcmil	2.38 (60.5)	1.88 (47.8)	3.00 (76.2)			
GPL-14-X	—	1	#8 SOL – #4 STR	2.63 (66.8)	1.38 (35.1)	2.75 (69.9)	3/8	9/16	10
GPL-15-X	—		#4 SOL – 2/0 STR	2.63 (66.8)	1.63 (41.4)	2.75 (69.9)			
GPL-16-X	—		2/0 SOL – 250 kcmil	2.63 (66.8)	1.88 (47.8)	3.25 (82)			
GPL-20-X	—	1 1/4	#8 SOL – #4 STR	3.00 (76.2)	1.38 (35.1)	3.50 (88.9)			
GPL-21-X	—		#4 SOL – 2/0 STR	3.00 (76.2)	1.63 (41.4)	3.50 (88.9)			
GPL-22-X	—		2/0 SOL – 250 kcmil	3.00 (76.2)	1.88 (47.8)	3.50 (88.9)			
GPL-26-X	—	1 1/2	#8 SOL – #4 STR	3.25 (82.6)	1.38 (35.1)	4.00 (101.6)			
GPL-27-X	—		#4 SOL – 2/0 STR	3.25 (82.6)	1.63 (41.4)	4.00 (101.6)			
GPL-28-X	—		2/0 SOL – 250 kcmil	3.25 (82.6)	1.88 (47.8)	4.00 (101.6)			
GPL-32-3	—	2	#8 SOL – #4 STR	3.75 (95.3)	1.38 (35.1)	4.25 (107.9)	3/8	9/16	3
GPL-33-3	—		#4 SOL – 2/0 STR	3.75 (95.3)	1.63 (41.4)	4.25 (107.9)			
GPL-34-3	—		2/0 SOL – 250 kcmil	3.75 (95.3)	1.88 (47.8)	4.25 (107.9)			
GPL-39-3	—	2 1/2	#4 SOL – 2/0 STR	4.25 (107.9)	1.63 (41.4)	5.00 (127)			
GPL-40-3	—		2/0 SOL – 250 kcmil	4.25 (107.9)	1.88 (47.8)	5.00 (127)			
GPL-44-1	—	3	#8 SOL – #4 STR	4.75 (120.6)	1.38 (35.1)	5.50 (139.7)	3/8	9/16	1
GPL-45-1	—		#4 SOL – 2/0 STR	4.75 (120.6)	1.63 (41.4)	5.50 (139.7)			
GPL-46-1	—		2/0 SOL – 250 kcmil	4.75 (120.6)	1.88 (47.8)	5.50 (139.7)			
GPL-51-1	—	3 1/2	#4 SOL – 2/0 STR	5.25 (133.4)	1.63 (41.4)	6.25 (158)			

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Grounding Clamp, U-Bolt, Bronze (continued)

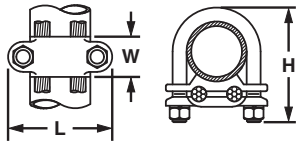
Part Number	Ground Rod Size (In.)	Iron Pipe Size (In.)	Conductor Size Range	Figure Dimensions In. (mm) L	W	H	Bolt Dia. (In.)	Hex Size (In.)	Std. Pkg. Qty.
GPL-52-1	—	3 1/2	2/0 SOL – 250 kcmil	5.25 (133.4)	1.88 (47.8)	6.25 (158)	3/8	9/16	1
GPL-57-1	—	4	#4 SOL – 2/0 STR	5.75 (146.0)	1.63 (41.4)	6.38 (162.1)			
GPL-58-1			2/0 SOL – 250 kcmil	5.75 (146.0)	1.88 (47.8)	6.38 (162.1)			
GPL-75-X	—	6	#4 SOL – 2/0 STR	7.88 (200.2)	1.58 (40.1)	7.85 (199.4)	3/8	1 1/4	10

Bronze Grounding Clamp, U-Bolt, for Two Cables

Type GU

- Used to ground two copper code conductors parallel to a rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





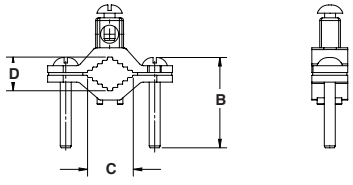
Part Number	Ground Rod Size (In.)	Iron Pipe Size (In.)	Figure Dimensions (In.) L	W	H	Bolt Dia. (In.)	Hex Size (In.)	Std. Pkg. Qty.
GU-2-X	#4 SOL – 2/0 STR	1	2.75	1.13	3.25	3/8	9/16	10
GU-4-X	#8 SOL – #4 STR	1 1/4	3.00	1.13	3.25			
GU-11-X	#4 SOL – 2/0 STR	2	1.31	3.62	4.44			
GU-13-3	300 kcmil – 500 kcmil	2	4.00	1.50	4.63	1/2	3/4	3

Bronze Ground Clamp

Type GPC

- Bonds water pipe to copper conductors
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding





Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.) B	C	D	Std. Pkg. Qty.
Standard Duty						
GPC2-1-Q	#10 SOL – #2 STR	1/2 – 1	1.65	0.78	0.63	25
GPC2-2-L		1 1/4 – 2	2.22	2.09	1.44	50
GPC2-4-X		2 1/2 – 4	4.25	4.15	2.73	10
GPC2-6-X		4 1/2 – 6	5.20	6.00	2.85	
Light Duty						
GPCJ2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.90	0.51	10

Order number of pieces required, in multiples of Standard Package Quantity.

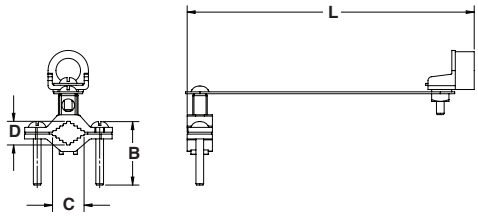
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Bronze Ground Clamp for Conduit with Strap

Type GPCS

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Copper contact strip included to isolate conduit system from water pipe vibrations
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding





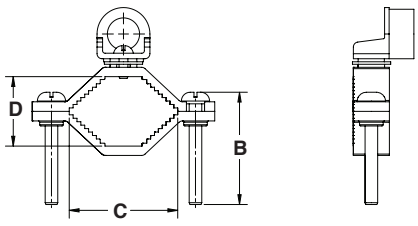
Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)				Std. Pkg. Qty.
				B	C	D	L	
GPCS4-1-12-L	#8 SOL – #4 STR	1/2 – 1	1/2	1.65	0.78	0.63	7.25	50
GPCS4-2-12-L			3/4	1.65	0.78	0.63	7.50	
GPCS4-4-12-L			1	1.65	0.78	0.63	7.75	

Bronze Ground Clamp for Conduit

Type GPC

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding





Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
				B	C	D	
GPC4-1-12-Q	#8 SOL – #4 STR	1/2 – 1	1/2	1.65	1.00	0.56	25
GPC4-1-34-L			3/4	1.65	1.00	0.56	50
GPC4-1-1-L			1	1.65	1.00	0.56	
GPC4-2-12-L	#8 SOL – #4 STR	1 1/4 – 2	1/2	2.22	2.08	1.33	50
GPC4-2-34-Q			3/4	2.22	2.08	1.33	25
GPC4-2-1-Q			1	2.22	2.08	1.33	
GPC4-4-12-X	#8 SOL – #4 STR	2 1/2 – 4	1/2	4.25	3.81	2.75	10
GPC4-4-34-X			3/4	4.25	3.81	2.75	
GPC4-4-1-X			1	4.25	3.81	2.75	
GPC4-6-12-X	#8 SOL – #4 STR	4 1/2 – 6	1/2	5.20	6.00	2.90	10
GPC4-6-34-5			3/4	5.20	6.00	2.90	5
GPC4-6-1-X			1	5.20	6.00	2.90	10

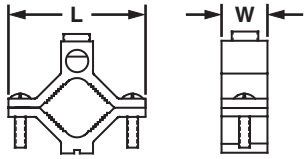
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Grounding Clamp for Water Pipes, Aluminum

Type GC

- Dual-rated for grounding aluminum or copper code conductors to copper water pipe, galvanized pipe, or steel conduit
- Made from high strength, extruded aluminum alloy to provide long term durability
- Tin-plated to inhibit corrosion and oxidation and for low contact resistance
- Plated steel screws provide high strength and inhibit corrosion
- Accommodates a wide range of pipe, tube, and conductor sizes – minimizes inventory requirements
- UL 467 Listed and CSA Certified for grounding and bonding



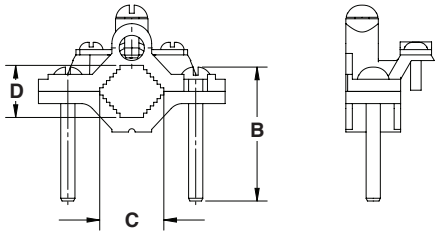


Part Number	Conduit Pipe or Water Tube Size	Conductor Size Range	Figure Dimensions (In.)		Std. Pkg. Qty.
			L	W	
GC-15A-Q	1/2 – 3/4 – 1	#14 AWG – 1/0 AWG	2.25 (57.2)	0.69 (17.5)	25
GC-18A-X	1 1/4 – 1 1/2 – 2	#6 AWG – 250 kcmil	3.75 (95.3)	0.81 (20.6)	10
GC-22A-4	2 1/2 – 3 – 3 1/2 – 4		6.31 (95.3)	1.00 (25.4)	4

Bronze Ground Clamp, Armored Cable

- Bonds water pipe to copper conductors in armored cables
- Made from high strength, electrolytic cast bronze
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding; GPCA2-1D-C is suitable for direct burial in earth or concrete





Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
Phos Bronze Hardware						
GPCA2-1D-C	#8 SOL – #4 STR	1/2 – 1	1.65	1.00	0.59	100
Zinc Plated Steel Hardware*						
GPCA2-1-C*	#8 SOL – #4 STR	1/2 – 1	1.65	1.00	0.59	100
GPCA2-2-L*		1 1/4 – 2	2.22	2.22	1.19	50
GPCA2-4-X*		2 1/2 – 4	4.25	3.83	2.70	10
GPCA2-6-X*		4 1/2 – 6	5.20	5.96	4.50	

*Not DB rated

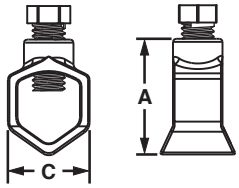
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Bronze Ground Rod Clamps, Direct Burial

- Used for grounding copper conductor parallel to ground rods
- Made from high strength, seamless electrolytic bronze to provide long term durability
- High strength phos bronze hardware provides long term reliable assembly
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete – for type GRC and GRCH
- UL Listed and CSA Certified for grounding and bonding and suitable for direct burial in earth or concrete – for Type WB



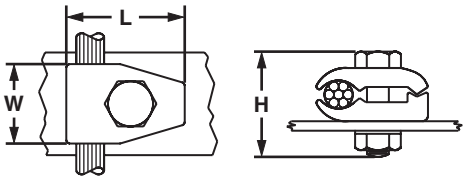


Part Number	Conductor Size Range (AWG)	Ground Rod Size (In.)	Figure Dimensions (In.) A	Figure Dimensions (In.) C	Hex Head Size (In.)	Std. Pkg. Qty.
Standard Duty						
GRC4-38-TL	#10 SOL – #4 STR	3/8	1.00	0.82	1/2	250
GRC2-12-TL	#10 SOL – #2 STR	1/2	1.19	0.68		
GRC2-58-TL		5/8	1.34	0.64		
GRC2-34-T		3/4	1.48	0.71		200
WB12-L		1/2	1.28	0.88		50
WB34-X	#8 SOL – 1/0 STR #8 SOL – #2 STR	5/8 3/4	1.54	1.03		10
WB58-Q	#8 SOL – 1/0 STR	5/8	1.40	1.04		25
Heavy Duty						
GRCH2-12-T	#10 SOL – #2 STR	1/2	1.25	0.82	1/2	200
GRCH1/0-58-T	#8 SOL – 1/0 STR	5/8	1.42	0.99		
GRCH1/0-34-E		3/4	1.60	0.97		20

Bronze Grounding Clamp with Spacer for Flat Surfaces

- Used to ground copper code conductor to flat surfaces
- Cast from high strength, electrolytic bronze to provide reliable grounding connections
- High strength silicon bronze hardware for long term reliable assembly
- Accommodates a wide range of conductor sizes – minimizes inventory requirement, saves cost
- Incorporates spacer plate to separate conductor from mounting surface
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





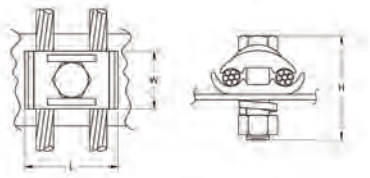
Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.) L	W	H	Hex Size (In.) Bolt	Nut	Std. Pkg. Qty.
GM-1-Q	#8 Sol – #4 STR	1.10	1.00	1.46	3/8	9/16	25
GM-2-Q	#4 SOL – 2/0 STR	1.63	1.13	1.75	9/16		
GM-3-Q	2/0 SOL – 250 kcmil	2.13	1.50	2.00	3/4	3/4	
GM-4-X	300 kcmil – 500 kcmil	2.26	1.52	2.55	1/2		10

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Bronze Grounding Clamp with Spacer for Flat Surfaces, Two Conductor

- Used to ground copper code conductors to flat surfaces
- Cast from high strength, electrolytic bronze
- Cast body includes anti-rotational flanges to keep hex head bolt from spinning
- High strength silicon bronze hardware for long term reliable assembly
- Accommodates a wide range of conductor sizes – minimizes inventory requirement, saves cost
- Incorporates spacer plate to separate conductors from mounting surface
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





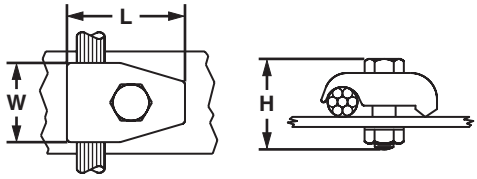
Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Hex Size (In.)		Std. Pkg. Qty.
		L	W	H	Bolt*	Nut	
GBC2250-12-X	2/0 SOL – 250 kcmil	2.04	1.25	2.27	3/4	3/4	10

*Bolt head will be contained within the anti-rotational flanges of cast body

Bronze Grounding Clamp with Spacer for Flat Surfaces, One Conductor

- Used to ground copper code conductor to flat surfaces
- Cast from high strength, electrolytic bronze to provide reliable grounding connections
- High strength silicon bronze hardware for long term reliable assembly
- Accommodates a wide range of conductor sizes – minimizes inventory requirement, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete





Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Hex Size (In.)		Std. Pkg. Qty.
		L	W	H	Bolt	Nut	
GMS-1-X	#8 SOL – #4 STR	1.25	1.00	1.63	9/16	9/16	10
GMS-2-Q	#4 SOL – 2/0 STR	1.63	1.13	1.75	9/16	9/16	25
GMS-3-Q	2/0 SOL – 250 kcmil	2.13	1.50	2.00	3/4	3/4	

MGC2 Series Ground Clamps

- Solution for grounding a pair of copper cables to flat surfaces
- Connectors are cULus listed and rated for Direct Burial in earth or concrete
- Compatible with a wide range of wire sizes in both solid and stranded
- Designed for joining un-even wire sizes within the listed range
- Top plate captures the bolt head for simple one-wrench installation
- Hardware is Silicon Bronze for maximum corrosion resistance



Part Number	Wire Range	Figure Dimensions (In.)			Thread
		L	W	H	
MGC2-4-Q	Solid: 8 AWG – 4 AWG Stranded: 8 AWG – 4 AWG	1.3	1.2	1.5	3/8-16
MGC2-2/0-Q	Solid: 4 AWG – 2/0 AWG Stranded: 4 AWG – 2/0 AWG	1.5	1.5	1.7	
MGC2-250-X	Solid: 2/0 AWG – 4/0 AWG Stranded: 2/0 AWG – 250 kcmil	1.3	2.0	2.1	1/2-13
MGC2-500-X	Solid: N/A Stranded: 300 kcmil – 500 kcmil	1.6	2.5	2.3	

Order number of pieces required, in multiples of Standard Package Quantity.

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Labeling Systems

Panduit® is a global leader in reliable and innovative solutions for identification and safety. Products are engineered for a wide variety of industries and applications – including electrical, electronics, industrial and network. Panduit provides enhanced productivity, reliability, and value with leading-edge software development, materials and equipment by designing and manufacturing a full line of labeling products, software and printers to assist you with your labeling requirements.



- **World-class quality – ISO 9001 and ISO 14001**
- **High performance and reliability**
- **Wide variety of system solutions to meet the most demanding requirements**
- **Meet and exceed the requirements of UL, CSA, ISO, NEC and OSHA**
- **Strong service and support network – distributor partners, knowledgeable sales people, expert technical support and world-class customer service**



Panduit provides a complete range of industrial products and tools – including hand-held labeling systems, desktop labeling systems, pre-printed labels and safety systems. Use Panduit for all identification needs for wire and cable, electrical and electronic devices, agency compliance, workplace safety and more.





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Printers: Thermal Transfer Desktop and Hand-Held

Panduit® desktop thermal transfer printers enable fast, high quality label production for all your identification requirements. Use Panduit labeling software and desktop thermal transfer printers to produce on demand identification solutions quickly and economically. Panduit hand-held printers are designed for flexibility. Programmed with advanced functionality, Panduit printers make on demand labeling easy.

Hand-Held Printers

- **Create labels at remote job sites**
- **Provide crisp, clear, high quality thermal transfer print**
- **Easily identify moves, adds, or changes**

Desktop Printers

- **Compatible with Panduit® Easy-Mark Plus™ Labeling Software**
- **Provide crisp, clear, high quality thermal transfer print**
- **Compatible with Windows^ based PC operating systems**

Panduit printers and our wide variety of labels provide solutions for all your project labeling needs.

^Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Order number of pieces required, in multiples of Standard Package Quantity.

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PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers and Accessories

- Cut-to-length functionality eliminates label waste and label trimming labor
- Partial cut feature available to provide tear-apart strips of labels
- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Market specific labeling tools simplify label creation for electrical components, panel building, and construction and maintenance
- USB interface for importing data, system upgrades, and printing from a wireless laptop or desktop computer
- Prints self-laminating labels, heat shrink tubing, die-cut component labels and continuous tapes
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Large graphic display with backlight for improved visibility



LS8E-KIT



LS8EQ

Part Number	Part Description	Std. Pkg. Qty.
LS8EQ-KIT-ACS	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8E-ACS, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	
LS8EQ-KIT	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	
LS8EQ	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card.	
LS8E-KIT-ACS	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8E-ACS, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	
LS8E-KIT	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual.	1
LS8E	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card.	
LS8E-ACS*	120 VAC power adapter for North America.	
LS8-CASE	Rigid carrying case.	
LS8-PCKIT	Includes USB cable and PC interface software for importing data, system upgrades, or printing from a wireless laptop or desktop computer.	
LS8-IB	Protective impact bumper.	
LS8-WS	Wrist strap.	
LS8-CLN	LS8/LS8E cleaning kit – contains bottle of cleaning solution with MSDS, cleaning pen, swabs, alcohol wipes and cleaning instructions.	

*Cannot be used to charge batteries. Other adapters available, replace S with A (Australia), and E (Europe) and U (UK).

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Hand-Held Thermal Transfer Printing Solutions

Self-Laminating Labels	Page E1.4	**Die-Cut Component Labels**	Page E1.9
Die-Cut Vinyl Cloth Labels	Page E1.6	**Vinyl Cloth Continuous Tapes**	Page E1.5
Turn-Tell® Labels	Page E1.6	**Nylon Cloth Continuous Tapes**	Page E1.5
Marker Plates	Page E1.7	**Continuous Heat Shrink Tubing**	Page E1.8
Flag Labels	Page E1.7	**Continuous Tapes**	Page E1.10
Die-Cut Heat Shrink Tubing	Page E1.8	**Continuous Reflective Tapes**	Page E1.11



PanTher™ LS8E/LS8EQ

P1™ Self-Laminating Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printer

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Self-laminating adhesive labels for wire/cable identification include a colored print-on area and clear overlaminate
- Labels are available in a large range of wire/cable sizes
- Temperature range: -50°F to 225°F (-45.6°C to 107°C)



Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
S050X075VAC	White	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	450	1	10
S050X125VAC		0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG	225		
S050X150VAC		0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	200		
S075X075VAC	White	0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	350		
S075X100VAC		0.75	19.1	1.00	25.4	0.38	9.7	0.12	3.1	0.28	7.1	Cat. 3 UTP/ 12 – 10 AWG	275		
S075X125VAC		0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.1		225		
S075X150VAC		0.75	19.1	1.50	38.1.	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	200		
S100X075VAC	White	1.00	25.4	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	350	1	10
S100X125VAC		1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.1	Cat. 3 UTP/ 12 – 10 AWG	225		
S100X150VAC		1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	200		
S100X150VBC	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150VDC	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150VHC	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150VIC	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X225VAC	White	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2	Cat. 6 FTP/Cat. 6A UTP/Cat. 6A FTP/8 – 4 AWG	125		
S100X225VAC	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2				
S100X225VDC	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2				
S100X225VHC	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2				
S100X225VIC	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.2				
S100X400VAC	White	1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	75		
S100X650VAC		1.00	25.4	6.50	165.1	1.50	38.1	0.48	12.2	1.59	40.4	1/0 – 250 AWG	50		

Order number of pieces required, in multiples of Standard Package Quantity.

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P1™ Non-Laminated Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Non-laminated adhesive labels for wire/cable identification
- Temperature range – Vinyl Cloth: -40°F to 170°F (-40°C to 77°C)
- Temperature range – Nylon Cloth: -65°F to 275°F (-54°C to 135°C)



P1™ Non-Laminated Continuous Tape Cassettes

Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	Ft.	m		
T038X000C1C-BK	White	Nylon	0.38	9.7	18.0	5.5	1	10
T038X000C2C-BK	Yellow		0.38	9.7	18.0	5.5		
T050X000C1C-BK	White		0.50	12.7	12.5	3.8		
T050X000C2C-BK	Yellow		0.50	12.7	18.0	5.5		
T050X000CBC-BK	White	Vinyl	0.50	12.7	18.0	5.5		
T075X000C1C-BK	White	Nylon	0.75	19.1	18.0	5.5		
T075X000C2C-BK	Yellow	Nylon	0.75	19.1	18.0	5.5		
T100X000C1C-BK	White	Nylon	1.00	25.4	12.5	3.8		
T100X000C2C-BK	Yellow		1.00	25.4	18.0	5.5		
T100X000CBC-BK	White	Vinyl	1.00	25.4	18.0	5.5		

Order number of pieces required in multiples of Standard Package Quantity.

P1™ Non-Laminated Die-Cut Cassettes

Part Number	Color	Material	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm	In.	mm				
N050X075C1C	White	Nylon	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	250	1	10
N050X075C2C	Yellow		0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1				
N050X075CBC	White	Vinyl	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1		125		
N050X125C1C	White	Nylon	0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG	150		
N050X125C2C	Yellow		0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1				
N050X150CBC	White	Vinyl	0.50	12.7	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG	75		
N100X075C1C	White	Nylon	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	250		
N100X075C2C	Yellow		1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1				
N100X075CBC	White	Vinyl	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1		125		
N100X125C1C	White	Nylon	1.00	25.4	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG	150		
N100X125C2C	Yellow		1.00	25.4	1.25	31.8	0.20	5.1	0.32	8.1				
N100X125CBC	White	Vinyl	1.00	25.4	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG	75		
N100X150CBC			1.00	25.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG			
N100X175CBC			1.00	25.4	1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG	50		

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PATENTED

P1™ Turn-Tell® Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics
- Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables
- Temperature range: -40°F to 150°F (-40°C to 65.6°C)



2015 Cabling Installation & Maintenance Silver Innovators Awards

Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
R100X075V1C	White	1.00	25.4	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	150	1	10
R100X125VIC		1.00	25.4	1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/ 12 – 10 AWG	100		
R100X150V1C		1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG			
R100X150V2C	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150V3C	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150V7C	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150V8T	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X225V1C	White	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/ Cat. 6 UTP/ Cat. 6A FTP/ 8 – 4 AWG	75		
R100X225V2C	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225V3C	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225V7C	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225V8C	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

P1™ Marker Plate Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Marker plates are designed for use on larger diameter wire/cables and may be applied after all terminations are complete
- Meets requirements for MIL-STD-202G, Method 215K, Solutions A, C and D
- Temperature range: -58°F to 221°F (-50°C to 105°C)



Part Number	Color	Width		Length		Print-On Area Width		Recommended Cable Tie		Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	Vertical	Horizontal			
M300X050Y6C	Yellow	3.00	76.2	0.50	12.7	1.80	45.7	PLT2.5I-C	PLT2.5I-C	50	1	10
M300X050Y7C	White											

Order number of cassettes required.

P1™ Flag Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy
- Provides larger labeling area for small cables
- Innovative design allows flag labels to be applied in either adhesive or non–adhesive orientations
- Temperature range: -40°F to 302°F (-40°C to 150°C)



Part Number	Width		Length		Min. Cable O.D.		Max. Wire O.D.		Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			
F100X150AJC	1.00	25.4	1.50	38.1	0.12	3.1	0.20	5.1	200	1	10

Order number of cassettes required.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

P1™ Military Grade Die Cut and Continuous Heat Shrink Label Cassettes for PanTher™ LS8E/LS8EQ Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Meets print performance requirements of MIL-STD-883F Method 2015.13, Solutions A, B and D, and MIL-STD-202G Method 215K, Solutions A, C and D
- Meets UL Standard 224 for flammability
- Shrink ratio 3:1
- Each cassette contains a roll of non-adhesive flattened polyolefin
- Temperature Range: -67°F to 275°F (-55°C to 135°C)



Military Grade Die-Cut Heat Shrink Label Cassettes

Part Number	Color	Diameter		Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
H100X025H1C	White	0.13	3.1	0.25	6.4	1.00	25.4	0.04	1.0	0.13	3.3	22 – 18 AWG	1	10
H100X025H2C	Yellow	0.13	3.1	0.25	6.4	1.00	25.4	0.04	1.0	0.13	3.3			
H100X034H1C	White	0.19	4.7	0.34	8.6	1.00	25.4	0.06	1.5	0.19	4.8	18 – 12 AWG		
H100X034H2C	Yellow	0.19	4.7	0.34	8.6	1.00	25.4	0.06	1.5	0.19	4.8			
H100X044H1C	White	0.25	6.3	0.44	11.2	1.00	25.4	0.08	2.0	0.25	6.4	16 – 10 AWG		
H100X044H2C	Yellow	0.25	6.3	0.44	11.2	1.00	25.4	0.08	2.0	0.25	6.4			
H100X064H1C	White	0.38	9.7	0.64	16.3	1.00	25.4	0.13	3.3	0.38	9.7	12 – 6 AWG		
H100X064H2C	Yellow	0.38	9.7	0.64	16.3	1.00	25.4	0.13	3.3	0.38	9.7			
H100X084H1C	White	0.50	12.7	0.84	21.3	1.00	25.4	0.17	4.3	0.50	12.7	8 – 1 AWG		
H100X084H2C	Yellow	0.50	12.7	0.84	21.3	1.00	25.4	0.17	4.3	0.50	12.7			

Military Grade Continuous Heat Shrink Tape Cassettes

Part Number	Color	Diameter		Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	Ft.	m	In.	mm	In.	mm			
H000X025H1C	White	0.13	3.1	0.25	6.4	8.0	2.4	0.04	1.0	0.13	3.3	22 – 18 AWG	1	10
H000X025H2C	Yellow	0.13	3.1	0.25	6.4	8.0	2.4	0.04	1.0	0.13	3.3			
H000X034H1C	White	0.19	4.7	0.34	8.6	8.0	2.4	0.06	1.5	0.19	4.8	18 – 12 AWG		
H000X034H2C	Yellow	0.19	4.7	0.34	8.6	8.0	2.4	0.06	1.5	0.19	4.8			
H000X044H1C	White	0.25	6.3	0.44	11.2	6.0	1.8	0.08	2.0	0.25	6.4	16 – 10 AWG		
H000X044H2C	Yellow	0.25	6.3	0.44	11.2	6.0	1.8	0.08	2.0	0.25	6.4			
H000X064H1C	White	0.38	9.7	0.64	16.3	6.0	1.8	0.13	3.3	0.38	9.7	12 – 6 AWG		
H000X064H2C	Yellow	0.38	9.7	0.64	16.3	6.0	1.8	0.13	3.3	0.38	9.7			
H000X084H1C	White	0.50	12.7	0.84	21.3	6.0	1.8	0.17	4.3	0.50	12.7	8 – 1 AWG		
H000X084H2C	Yellow	0.50	12.7	0.84	21.3	6.0	1.8	0.17	4.3	0.50	12.7			

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

P1™ General Component Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Use for identifying flat surfaces such as components, control panels, circuit boards and general labeling
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in polyester and vinyl cloth materials
- Polyester, Super-Tack Polyester temperature range: -40°F to 302°F (-40°C to 150°C)
- Vinyl Cloth temperature range: -40°F to 170°F (10°C to 77°C)



Part Number	Color	Material	Width		Height		Labels Per Cassette	Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm	In.	mm			
C060X020YJC	White	Polyester	0.60	15.2	0.20	5.1	750	1	10
C075X025YLC	Yellow	Polyester	0.75	19.1	0.25	6.4	500		
C100X025YJC	White		1.00	25.4	0.25	6.4			
C100X025YLC	Yellow		1.00	25.4	0.25	6.4			
C100X050CBC	White	Vinyl Cloth	1.00	25.4	0.50	12.7	175		
C100X050YJC	White	Polyester	1.00	25.4	0.50	12.7	500		
C100X050YMC	Silver		1.00	25.4	0.50	12.7			
C100X050YPC	White	Super-Tack Polyester	1.00	25.4	0.50	12.7	250		
C150X075YJC		Polyester	1.50	38.1	0.75	19.1	250		
C150X075YPC		Super-Tack Polyester	1.50	38.1	0.75	19.1	175		
C189X047FNC		Tamper-Resistant Polyolefin	1.89	48.0	0.47	12.0			
C200X050CBC		Vinyl Cloth	2.00	50.8	0.50	12.7	50		
C200X050YJC		Polyester	2.00	50.8	0.50	12.7	200		
C200X050YPC		Super-Tack Polyester	2.00	50.8	0.50	12.7	150		
C200X100YJC	White	Polyester	2.00	50.8	1.00	25.4	200		
C200X100YMC	Silver		2.00	50.8	1.00	25.4	150		
C200X100YPC	White	Super-Tack Polyester	2.00	50.8	1.00	25.4	150		

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P1™ Continuous Tape Cassettes for PanTher™ LS8E/LS8EQ and Hand-Held Thermal Transfer Printers

- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Print custom pipe markers, voltage markers, signs and bin marker labels on demand
- Available in a variety of colors, widths, and adhesive materials including continuous polyolefin, polyester, vinyl, and reflective
- For flat label applications only
- Polyolefin Temperature Range: -40°F to 180°F (-40°C to 82°C)
- Polyester Temperature Range: -40°F to 302°F (-40°C to 150°C)
- Vinyl Temperature Range: -50°F to 225°F (-45.6°C to 107°C)
- Reflective Temperature Range: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty
			In.	mm	Ft.	m		
T019X000FJC-BK	Black on White	Polyolefin	0.19	4.8	25.0	7.6		
T024X000FJC-BK			0.27	6.1	25.0	7.6		
T024X000VPC-BK		Vinyl	0.24	6.1	25.0	7.6		
T024X000VYC-WH	White on Black	Vinyl	0.24	6.1	25.0	7.6		
T024X000YKC-BK	Black on Clear	Polyester	0.24	6.1	25.0	7.6		
T031X000FJC-BK	Black on White	Polyolefin	0.31	7.9	25.0	7.6		
T038X000FJC-BK			0.38	9.7	25.0	7.6		
T038X000VPC-BK	Black on White	Vinyl	0.38	9.7	25.0	7.6		
T038X000VQC-BK	Black on Blue	Vinyl	0.38	9.7	25.0	7.6	1	10
T038X000VQC-WH	White on Blue		0.38	9.7	25.0	7.6		
T038X000VSC-BK	Black on Green		0.38	9.7	25.0	7.6		
T038X000VSC-WH	White on Green		0.38	9.7	25.0	7.6		
T038X000VUC-BK	Black on Orange		0.38	9.7	25.0	7.6		
T038X000VWC-BK	Black on Red		0.38	9.7	25.0	7.6		
T038X000VWC-WH	White on Red		0.38	9.7	25.0	7.6		
T038X000VXC-BK	Black on Yellow		0.38	9.7	25.0	7.6		
T038X000VYC-WH	White on Black		0.38	9.7	25.0	7.6		
T038X000YKC-BK	Black on Clear	Polyester	0.38	9.7	25.0	7.6		
T050X000VPC-BK	Black on White	Vinyl	0.50	12.7	25.0	7.6		
T050X000VPC-RD	Red on White		0.50	12.7	25.0	7.6		
T050X000VQC-BK	Black on Blue		0.50	12.7	25.0	7.6		
T050X000VQC-WH	White on Blue		0.50	12.7	25.0	7.6		
T050X000VSC-BK	Black on Green		0.50	12.7	25.0	7.6		
T050X000VSC-WH	White on Green		0.50	12.7	25.0	7.6	1	10
T050X000VUC-BK	Black on Orange		0.50	12.7	25.0	7.6		
T050X000VWC-BK	Black on Red		0.50	12.7	25.0	7.6		
T050X000VWC-WH	White on Red		0.50	12.7	25.0	7.6		
T050X000VXC-BK	Black on Yellow		0.50	12.7	25.0	7.6		
T050X000VYC-WH	White on Black		0.50	12.7	25.0	7.6		
T050X000YKC-BK	Black on Clear	Polyester	0.50	12.7	25.0	7.6		

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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P1™ Continuous Tape Cassettes for PanTher™ LS8E/LS8EQ and Hand-Held Thermal Transfer Printers (continued)

Part Number	Color	Material	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty
			In.	mm	Ft.	m		
T075X000VPC-BK	Black on White	Vinyl	0.75	19.1	25.0	7.6	1	10
T075X000VQX-BK	Black on Blue		0.75	19.1	25.0	7.6		
T075X000VQC-WH	White on Blue		0.75	19.1	25.0	7.6		
T075X000VSC-BK	Black on Green		0.75	19.1	25.0	7.6		
T075X000VSC-WH	White on Green		0.75	19.1	25.0	7.6		
T075X000VUC-BK	Black on Orange		0.75	19.1	25.0	7.6		
T075X000VWC-BK	Black on Red		0.75	19.1	25.0	7.6		
T075X000VWC-WH	White on Red		0.75	19.1	25.0	7.6		
T075X000VXC-BK	Black on Yellow		0.75	19.1	25.0	7.6		
T075X000VYC-WH	White on Black		0.75	19.1	25.0	7.6		
T075X000YKC-BK	Black on Clear	Polyester	0.75	19.1	25.0	7.6		
T100X000RPC-BK	Black on White	Reflective	1.00	25.4	18.0	5.5		
T100X000RUC-BK	Black on Orange		1.00	25.4	18.0	5.5		
T100X000RXC-BK	Black on Yellow		1.00	25.4	18.0	5.5		
T100X000VPC-BK	Black on White	Vinyl	1.00	25.4	25.0	7.6	1	10
T100X000VPC-RD	Red on White		1.00	25.4	25.0	7.6		
T100X000VQC-BK	Black on Blue		1.00	25.4	25.0	7.6		
T100X000VQC-WH	White on Blue		1.00	25.4	25.0	7.6		
T100X000VSC-BK	Black on Green		1.00	25.4	25.0	7.6		
T100X000VSC-WH	White on Green		1.00	25.4	25.0	7.6		
T100X000VUC-BK	Black on Orange		1.00	25.4	25.0	7.6		
T100X000VWC-BK	Black on Red		1.00	25.4	25.0	7.6		
T100X000VWC-WH	White on Red		1.00	25.4	25.0	7.6		
T100X000VXC-BK	Black on Yellow		1.00	25.4	25.0	7.6		
T100X000VYC-WH	White on Black		1.00	25.4	25.0	7.6		
T100X000YKC-BK	Black on Clear	Polyester	1.00	25.4	25.0	7.6		

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TDP43ME Thermal Transfer Desktop Printer and Accessories

- Compact, lightweight design enables use in office or remote locations
- 300 dpi thermal transfer printer creates crisp, clear legends with superior legibility
- Up to 4.00 inches per second print speed for fast label production
- Use to print a wide variety of self-laminating labels, component labels, non-laminated labels, heat shrink labels, marker plates and continuous tapes up to 4" wide
- Panduit® Easy-Mark Plus™ Labeling Software and hybrid ribbon included with printer
- UL 60950 listed, File # E165747





Part Number	Part Description	Std. Pkg. Qty.
TDP43ME	300 dpi printer; includes printer, Panduit® Easy-Mark Plus™ Labeling Software, RMEH4BL black hybrid ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, TB-KIT, and driver disk; for use in North America.	1
TDP43ME-KIT	TDP43ME printer kit. Includes: printer, Panduit® Easy-Mark Plus™ Labeling Software, RMEH4BL black hybrid ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, TDP43ME-RS Roll Stand, TDP43ME-CASE, one roll of S100X150VATY labels, TB-KIT, and driver disk; for use in North America.	
TDP43ME-RS	External label roll stand – used to rear feed labels that are supplied on 3.00" cores.	
TDP43ME-AC	Replacement AC power adapter with power cord (US cord only).	
TDP43ME-CASE	Hard-side carrying case accommodates printer, AC power adapter, ribbons, printer cable, external roll stand, labels, and tools.	
TDP43ME-CUTTER	Optional power/automatic cutter for TDP43ME Thermal Transfer Desktop Printer; easy to install for automatic cutting of labels.	
TDP43ME-SPINDLE	Replacement ribbon spindle for TDP43ME Thermal Transfer Desktop Printer, package of two spools.	
PTR-CLN	Printer cleaning kit – contains bottle of cleaning solution with MSDS, cleaning pen, swabs, alcohol wipes and cleaning instructions.	
TDP43ME-TB-KIT	Terminal block market adapter kit.	

Ribbons for Use with the TDP43ME Thermal Transfer Desktop Printer

- **Hybrid** – Recommended for use with self-laminating, heat shrink, component and non-laminated labels
- **Resin** – Recommended for use with component labels, marker plates, and continuous tape



Part Number	Part Description	Width		Length		Std. Pkg. Qty.
		In.	mm	Ft.	m	
RMEH4BL*	Black hybrid thermal transfer ribbon. Use with heat shrink, self-laminating, Turn-Tell®, tan polyimide labels, and vinyl cloth labels.	4.25	108.0	300.0	91.4	1
RMER4BL*	Black resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.25	108.0	300.0	91.4	
RMER4BU	Blue resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.25	108.0	300.0	91.4	
RMER4GR	Green resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.25	108.0	300.0	91.4	
RMER4RD	Red resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.25	108.0	300.0	91.4	
RMER4WH*	White resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, raised panel labels, and black heat shrink.	4.25	108.0	300.0	91.4	
RMER4BL-A	Black resin thermal transfer ribbon. Use with high-temperature marker plates.	4.25	108.0	300.0	91.4	
RMER4BL-C	Black resin thermal transfer ribbon. Use with fluid-resistant heat shrink labels and white polyimide labels.	4.25	108.0	300.0	91.4	

Order number of ribbons required in multiples of Standard Package Quantity.
*For 2.5" wide ribbons, replace 4 in part number with 2. For example, the part number of a 2.5" wide black hybrid thermal transfer ribbon is RMEH2BL.

Order number of pieces required, in multiples of Standard Package Quantity.

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TDP43HE and TDP46HE Thermal Transfer Desktop Printers

- Convenient, easy setup; quickly begin producing labels
- Durable, clear communication through superior legibility
- Print small, fine characters and high-quality images and bar codes
- Allow continuous use in construction, industrial, and harsh environments
- Reduce time required to switch between label styles
- Fast label production without sacrificing print quality
- Panduit® Easy-Mark Plus™ Labeling Software included with printer
- Up to 8 inches per second print speed
- Connect quickly and easily to PC, and offers connectivity flexibility to print by USB, parallel, Ethernet, and serial
- UL 6050 listed, File # E165747



Part Number	Part Description	Std. Pkg. Qty.
TDP43HE	300 dpi printer; includes printer, Panduit® Easy-Mark Plus™ Labeling Software, RHEH4BL black hybrid ribbon, USB cable, user manual, quick start card, driver disk and US power cord; for use in North America.	1
TDP46HE	600 dpi printer; includes printer, Panduit® Easy-Mark Plus™ Labeling Software, RHEH4BL black hybrid ribbon, USB cable, user manual, quick start card, driver disk, and US power cord; for use in North America.	

Ribbons for use with the TDP43HE and TDP46HE Thermal Transfer Desktop Printers

- **Hybrid** – Recommended for use with self-laminating, heat shrink, component and non-laminated labels
- **Resin** – Recommended for use with component labels, marker plates, and continuous tape



Part Number	Part Description	Width		Length		Std. Pkg. Qty.
		In.	mm	Ft.	m	
RHEH4BL	Black hybrid thermal transfer ribbon. Use with heat shrink, self-laminating, Turn-Tell®, and vinyl cloth and tan polyimide labels.	4.33	110.0	1181.0	363.0	1
RHER4BL	Black resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.	4.33	110.0	1181.0	363.0	
RHER4WH	White resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, raised panel labels, and black heat shrink.	4.50	114.3	1181.0	363.0	
RHER4BL-A	Black resin thermal transfer ribbon. Use with high-temperature marker plates.	4.33	110.0	1181.0	363.0	
RHER4BL-C	Black resin thermal transfer ribbon. Use with fluid resistant heat shrink markers and white polyimide labels.	4.33	110.0	1181.0	363.0	
RHER4BL-E	Black resin thermal transfer ribbon. Use with standard marker plates and component labels for extra durability for harsh environments.	4.33	110.0	1345.0	410.0	

Order number of ribbons required.

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Notes

Order number of pieces required, in multiples of Standard Package Quantity.

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Labeling Software

Panduit® labeling software is custom designed to address your requirements for wire/cable labeling, component identification, network administration, and safety and facility identification. From control panel wire identification, terminal block and facility pipe marking to patch panel, faceplate and wire/cable marking, Panduit software is the solution for your on-demand identification requirements.

- **Panduit® Easy-Mark Plus™ Labeling Software is an easy-to-use, intuitive general purpose labeling software**
- **CAD-Connect™ Labeling Software generates labels quickly and easily, directly from an electronic CAD file**

Panduit user-friendly software packages meet the unique requirements of your applications.

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NEW! Easy-Mark Plus™ Labeling Software

PATENTED

- Powerful, easy-to-use, and affordable software that provides innovative features and functionality to address unique labeling needs
- Quickly create simple or complex labels with text boxes, lines, frames, or tables, and other useful tools
- Design detailed labels with multiple zones and objects for applications such as rating plates, arc flash labels, and fiber optic enclosures
- Simple user interface shows labels on the screen as they will be printed
- Create and print labels using QR codes, or any of the other 21 included barcode symbologies
- Upgrades available at https://www.panduit.com/en/support/download-center/identification-software-firmware-and-printers.html

System Requirements:

- 300 MB hard drive space and 2 GB Memory
- Windows^ XP, Vista, 7, 8, 8.1, or 10
- 32 or 64 bit operating systems
- Microsoft.NET Framework 2.0 or higher
- Mouse or compatible pointing device
- Keyboard
- Optical Disc Drive or USS Port



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
EMPLUS-CD	Easy-Mark Plus™ Labeling Software, CD-ROM.	1	10
EMPLUS-DL	Easy-Mark Plus™ Labeling Software, online download.		
EMPLUS-2GO	Easy-Mark Plus™ Portable Application, USB flash drive.		
EMPLUS-SERVER	Easy-Mark Plus™ Labeling Software, networkable server based version.		

^Windows is a registered trademark of Microsoft Corp. in the United States and/or other countries.

CAD-Connect™ Labeling Software

- Facilitates quick and easy organization of identifiers from CAD for printing within Easy-Mark™ Labeling Software
- Easily captures and organized CAD data for future use and documentation
- Saves time and reduces errors by utilizing identifiers previously created in CAD files to eliminate manual entry of data into labeling software
- Compatible with full versions of AutoCAD* 2002 to 2016 or Visio^ version 2002 or newer
- Exports to alternative formats such as Excel^ (XLS) or Text (CSV) files for future use and documentation
- Upgrades available at www.panduit.com

System Requirements:

- 64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)
- Windows^2000, XP, Vista, 7, 8
- Mouse or compatible pointing device
- Microsoft.NET Framework 2.0 or higher
- CD-ROM Drive



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-CCCD	CAD-Connect™ Labeling Software, including Easy-Mark™ Labeling Software, supplied on CD-ROM.	1	10

*AutoCAD is a registered trademark of Autodesk, Inc.
^Visio, Windows, and Excel are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Order number of pieces required, in multiples of Standard Package Quantity.

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Labels: Thermal Transfer, Laser, and Ink Jet

Panduit® provides a full line of on demand printable labels designed to meet all of your identification needs.

- **Thermal transfer labels supplied on rolls offer crisp, clear legends with superior legibility and can be printed on Panduit thermal transfer desktop printers or commercially available models**
- **Laser/ink jet labels supplied on 8.50" x 11.00" sheets and can be printed in commercially available laser and ink jet printers not sold by Panduit**

Panduit labeling solutions meet customer needs at the lowest total installed cost.

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Thermal Transfer Turn-Tell® Labels PATENTED

- Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics
- Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 150°F (-40°C to 65.6°C)



2015 Cabling Installation & Maintenance Silver Innovators Awards

Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Labels Per Pkg.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
R050X075V1T	White	0.50	12.7	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	8	5000
R050X125V1T		0.50	12.7	1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/12 – 10 AWG		
R050X150V1T		0.50	12.7	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP/Cat. 5e FTP/10 – 6 AWG		
R100X075V1T	White	1.00	25.4	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.0	Cat. 6 28 AWG/ 18 – 14 AWG	4	2500
R100X125V1T	White	1.00	25.4	1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/12 – 10 AWG	4	2500
R100X150V1T	White	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP	4	2500
R100X150V2T	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1			
R100X150V3T	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1			
R100X150V4T	TIA Gray	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1			
R100X150V7T	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1			
R100X150V8T	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1			
R100X225V1T	White	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/Cat. 6A UTP/ Cat. 6A FTP/8 – 4 AWG	4	2500
R100X225V2T	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R100X225V3T	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R100X225V4T	TIA Gray	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R100X225V7T	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R100X225V8T	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R100X400V1T	White	1.00	25.4	4.00	101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG	4	1000
R150X150V1T	White	1.50	38.1	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 5e UTP/Cat. 6 UTP/ Cat. 6A UTP/CAT. 5e FTP/10 – 6 AWG	2	1000
R200X150V1T	White	2.00	50.8	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9			
R200X225V1T	White	2.00	50.8	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/Cat. 6A UTP/ Cat. 6A FTP/8 – 4 AWG	4	
R200X400V1T	White	2.00	50.8	4.00	101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG	2	

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Order number of pieces required, in multiples of Standard Package Quantity.

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Thermal Transfer Self-Laminating Labels

- Includes a colored print-on area and clear over-laminate to protect the legend for clear and durable identification
- Sized specifically for wire and cable applications
- Thin and conformable; preferred material for most general wire/cable labeling
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 150°F (-40°C to 66°C)



Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
S050X075VA1Y	White	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	8	5000
S050X075VATY*		0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1			2500
S050X125VA1Y		0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG		5000
S050X125VATY*		0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0			
S050X150VA1Y		0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG		
S050X150VATY*		0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S050X250VATY*	White	0.50	12.7	2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1	6 – 2 AWG	8	5000
S075X075VATY*	White	0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	5	5000
S075X100VATY*		0.75	19.1	1.00	25.4	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG		
S075X125VATY*		0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0			
S075X150VATY*		0.75	19.1	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG		
S100X075VA1Y	White	1.00	25.4	0.75	19.1	0.25	6.4	0.08	0.50	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	4	2500
S100X075VATY*		1.00	25.4	0.75	19.1	0.25	6.4	0.08	0.50	0.16	4.1		4	5000
S100X125VA1Y		1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG	4	2500
S100X125VATY*		1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0		4	5000
S100X150VA1Y	White	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	4	2500
S100X150VATY*		1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1		4	5000
S100X150VBTY*	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VCTY*	TIA Brown	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VDTY*	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VETY*	TIA Gray	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VFTY*	TIA Orange	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VGTY*	TIA Purple	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VHTY*	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150VITY*	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150V0TY*	Black	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			
S100X150V9TY*	Gold	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1			

Order number of labels required in multiples of Standard Package Quantity.
*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Continued on next page

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Thermal Transfer Self-Laminating Labels (continued)

Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
S100X225VA1Y	White	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	4	5000
S100X225VATY*		1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VBTY*	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VCTY*	TIA Brown	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VDTY*	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VETY*	TIA Gray	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VFTY*	TIA Orange	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VGTY*	TIA Purple	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VHTY*	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225VITY*	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225V0TY*	Black	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X225V9TY*	Gold	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1			
S100X250VA1Y	White	1.00	25.4	2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1	6 – 2 AWG	4	1500
S100X250VATY*		1.00	25.4	2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1			5000
S100X400VA1Y		1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	4	1000
S100X400VATY*		1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3			2500
S100X650VA1Y		1.00	25.4	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4	1/0 – 250 MCM	4	250
S100X650VATY*		1.00	25.4	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4			1000
S150X150VATY*	White	1.50	38.1	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	2	5000
S150X225VATY*		1.50	38.1	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG		
S150X400VATY*	White	1.50	38.1	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.1	2 – 1 AWG	2	2500
S200X150VATY*	White	2.00	50.8	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	2	5000
S200X225VA1Y	White	2.00	50.8	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	2	500
S200X225VATY*		2.00	50.8	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4		2	1000
S200X250VATY*	White	2.00	50.8	2.50	63.5	1.00	25.4	0.32	8.1	0.48	12.1	6 – 2 AWG	2	1000
S200X400VA1Y	White	2.00	50.8	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	2	500
S200X400VATY*		2.00	50.8	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3			1000
S200X650VA1Y	White	2.00	50.8	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4	1/0 – 250 MCM	2	250
S200X650VATY*		2.00	50.8	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4			1000

Order number of labels required in multiples of Standard Package Quantity.
*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Order number of pieces required, in multiples of Standard Package Quantity.

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Tedlar Self-Laminating Labels

- Self-extinguishing material
- Recommended alternative to Tedlar*
- Use with thermal transfer hybrid ribbon
- Labels are sized specifically for wire and cable applications
- Temperature range: -65°F to 275°F (-53.9°C to 135°C)



Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
S050X150TAT-A	White	0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	8	5000
S075X125TAT-A		0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG	5	
S100X075TAT-A		1.00	25.4	0.75	19.1	0.25	6.4	0.08	0.5	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	4	2500
S100X125TAT-A		1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG	4	
S100X150TAT-A		1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	4	
S100X225TAT-A		1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	4	1500
S100X400TAT-A		1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 – 1 AWG	4	2500
S200X400TAT-A		2.00	50.8	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3		2	500

Order number of labels required in multiples of Standard Package Quantity.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Non-Laminated Vinyl Cloth Labels

- Labels offer crisp, clear legends with superior legibility
- Use as a wrap-around label or flag style marker for wire/cable labeling
- Works well on Teflon™ coated wires*
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 170°F (-40°C to 77°C)





Part Number	Color	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
N025X075CBT	White	0.25	6.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	7	10000
N025X125CBT		0.25	6.4	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N025X150CBT		0.25	6.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		2500
N025X175CBT		0.25	6.4	1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG		10000
N050X075CBT		0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG		
N050X100CBT		0.50	12.7	1.00	25.4	0.16	4.1	0.24	6.1	10 – 8 AWG		
N050X125CBT		0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N050X150CBT		0.50	12.7	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		2500
N050X175CBT		0.50	12.7	1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG		
N100X075CBT		1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	3	10000
N100X125CBT		1.00	25.4	1.25	31.8	0.20	4.1	0.32	8.1	10 – 6 AWG		5000
N100X150CBT		1.00	25.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		
N100X175CBT		1.00	25.4	1.75	44.5	0.28	7.1	0.48	12.2	6 – 1 AWG		2500
N150X075CBT		1.50	38.1	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	1	5000

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.
*Teflon is a registered trademark of E.I. du Pont de Nemours and Company.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Non-Laminated Nylon Cloth Labels

- Offer crisp, clear legends with superior legibility
- Used in flat applications and in a wrap format for wire/cable marking
- Use thermal transfer resin ribbon
- Temperature range: -65°F to 275°F (-54°C to 135°C)



Part Number	Color	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
N050X075C1T	White	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	5	10000
N050X075C2T	Yellow	0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1			
N050X125C1T	White	0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		
N050X125C2T	Yellow	0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1			
N050X150C1T	White	0.50	12.7	1.50	38.1	0.24	6.1	0.40	10.5	8 – 2 AWG		5000
N050X150C2T	Yellow	0.50	12.7	1.50	38.1	0.24	6.1	0.40	10.5			
N100X075C1T	White	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	3	10000
N100X075C2T	Yellow	1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1			
N100X125C1T	White	1.00	25.4	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		5000
N100X125C2T	Yellow	1.00	25.4	1.25	31.8	0.20	5.1	0.32	8.1			
N100X150C1T	White	1.00	25.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		
N100X150C2T	Yellow	1.00	25.4	1.50	38.1	0.24	6.1	0.40	10.2			

Order number of labels required in multiples of Standard Package Quantity.
Labels are roll mounted on 3.00" cores; when using the TDP43ME Printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Halogen-Free Flame-Retardant Marker Plates

- Used to identify wires, cables, equipment, and many other applications
- Offer crisp, clear legend with superior legibility and engineered to withstand high temperatures, harsh solvents, oils, and chemicals without over-lamination
- Compatible with Intermediate Cross Section cable ties
- Use thermal transfer resin ribbon
- Temperature range: -40°F to 193°F (-40°C to 90°C)



Part Number	Color	Width		Height		Print-On Area				Labels Per Roll	Std. Pkg. Qty. (Roll)
						Width		Height			
		In.	mm	In.	mm	In.	mm	In.	mm		
M200X042UPT	White	2.00	50.8	0.42	10.7	0.42	10.7	1.30	33.0	500	1
M200X042UPT-B		2.00	50.8	0.42	10.7	0.42	10.7	1.30	33.0	2000	
M200X080UPT		2.00	50.8	0.80	20.3	0.80	20.3	1.30	33.0	500	
M200X080UPT-B		2.00	50.8	0.80	20.3	0.80	20.3	1.30	33.0	2000	

Order number of marker plates required in multiples of Standard Package Quantity.
Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer High-Temperature Flame-Retardant Marker Plates

- Used for identification markers in (Class 1E) harsh environments
- Compatible with Intermediate Cross Section cable ties
- Use thermal transfer RMER4BL-A resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)



Part Number	Color	Width		Height		Print-On Area				Labels Per Roll	Std. Pkg. Qty. (Roll)
						Width		Height			
		In.	mm	In.	mm	In.	mm	In.	mm		
M200X042FQT	White	2.00	50.8	0.42	10.7	0.42	10.7	1.22	31.0	500	1
M200X042FQT-B		2.00	50.8	0.42	10.7	0.42	10.7	1.22	31.0	2000	
M200X080FQT		2.00	50.8	0.80	20.3	0.80	20.3	1.22	31.0	250	
M200X080FQT-B		2.00	50.8	0.80	20.3	0.80	20.3	1.22	31.0	2000	

Order number of marker plates required in multiples of Standard Package Quantity.
Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Standard Marker Plates

- Non-adhesive and halogen-free; used to identify wires, cables, equipment, and many other applications
- Attachable in horizontal or vertical orientation
- Use thermal transfer resin ribbon
- Recommended cable ties: Standard Marker Plates – Intermediate Cross Section for 0.5" length and Standard Cross Section for 1" length
- Temperature range: -58°F to 221°F (-50°C to 105°C)

Part Number	Color	Width		Height		Print-On Area Width		Labels Per Roll	Std. Pkg. Qty. (Roll)
		In.	mm	In.	mm	In.	mm		
M200X050Y6T	TIA Yellow	2.00	50.8	0.50	12.7	1.07	27.3	500	1
M200X050Y7T	White	2.00	50.8	0.50	12.7	1.07	27.3		
M200X050ACT	TIA Blue	2.00	50.8	0.50	12.7	1.07	27.3		
M200X050AET	TIA Green	2.00	50.8	0.50	12.7	1.07	27.3		
M200X050AFT	TIA Gray	2.00	50.8	0.50	12.7	1.07	27.3		
M200X050AGT	TIA Orange	2.00	50.8	0.50	12.7	1.07	27.3		
M200X050AIT	TIA Red	2.00	50.8	0.50	12.7	1.07	27.3		
M200X100Y6T	TIA Yellow	2.00	50.8	1.00	25.4	0.80	20.3		
M200X100Y6T-B		2.00	50.8	1.00	25.4	0.80	20.3	2000	1
M200X100Y7T	White	2.00	50.8	1.00	25.4	0.80	20.3	500	
M200X100Y7T-B		2.00	50.8	1.00	25.4	0.80	20.3	2000	
M200X100ACT	TIA Blue	2.00	50.8	1.00	25.4	0.80	20.3	500	1
M200X100AET	TIA Green	2.00	50.8	1.00	25.4	0.80	20.3		
M200X100AFT	TIA Gray	2.00	50.8	1.00	25.4	0.80	20.3		
M200X100AGT	TIA Orange	2.00	50.8	1.00	25.4	0.80	20.3		
M200X100AIT	TIA Red	2.00	50.8	1.00	25.4	0.80	20.3		
M300X050Y6T	TIA Yellow	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050Y7T	White	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050ACT	TIA Blue	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050AET	TIA Green	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050AFT	TIA Gray	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050AGT	TIA Orange	3.00	76.2	0.50	12.7	2.07	52.6		
M300X050AIT	TIA Red	3.00	76.2	0.50	12.7	2.07	52.6		
M300X100Y6T	TIA Yellow	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100Y7T	White	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100ACT	TIA Blue	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100AET	TIA Green	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100AFT	TIA Gray	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100AGT	TIA Orange	3.00	76.2	1.00	25.4	1.80	45.7		
M300X100AIT	TIA Red	3.00	76.2	1.00	25.4	1.80	45.7		

Order number of marker plates required in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Military Grade Single-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Meet UL Standard 224 with a VW-1 rating for flammability and AMS-DTL-23053/5C (Class 1 and Class 3)
- Meet SAE-AS81531, MIL-STD-883F Method 2015.13, Solutions A, B, and D, and MIL-STD-202G Method 215K, Solutions A, C, and D when printed with resin and hybrid thermal transfer ribbons
- Shrink ratio 3:1
- Tested for use as an identification marker in (Class 1E) harsh environments
- Use thermal transfer hybrid ribbon or white resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- UL224 recognized, File # E205133; CSA certified, C22.2 No. 198.1.06, File # 256205



Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H050X025H1T*+	H050X025H2T	0.13	3.1	0.50	12.7	0.25	6.4	0.04	1.0	0.13	3.3	22 – 18 AWG	4	2000	1
H075X025H1T*+	H075X025H2T	0.13	3.1	0.75	19.1	0.25	6.4	0.04	1.0	0.13	3.3		2	1000	
H100X025H1T*+	H100X025H2T	0.13	3.1	1.00	25.4	0.25	6.4	0.04	1.0	0.13	3.3				
H150X025H1T*+	H150X025H2T	0.13	3.1	1.50	38.1	0.25	6.4	0.04	1.0	0.13	3.3		1	500	
H200X025H1T*+	H200X025H2T	0.13	3.1	2.00	50.8	0.25	6.4	0.04	1.0	0.13	3.3				
H050X034H1T*+	H050X034H2T	0.19	4.7	0.50	12.7	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	4	2000	
H075X034H1T*+	H075X034H2T	0.19	4.7	0.75	19.1	0.34	8.6	0.06	1.5	0.19	4.8		2	1000	
H100X034H1T*+	H100X034H2T	0.19	4.7	1.00	25.4	0.34	8.6	0.06	1.5	0.19	4.8				
H150X034H1T*+	H150X034H2T	0.19	4.7	1.50	38.1	0.34	8.6	0.06	1.5	0.19	4.8		1	500	
H200X034H1T*+	H200X034H2T	0.19	4.7	2.00	50.8	0.34	8.6	0.06	1.5	0.19	4.8				
H050X044H1T*+	H050X044H2T	0.25	6.3	0.50	12.7	0.44	11.2	0.08	2.0	0.25	6.4	16 – 10 AWG	4	2000	
H075X044H1T*+	H075X044H2T	0.25	6.3	0.75	19.1	0.44	11.2	0.08	2.0	0.25	6.4		2	1000	
H100X044H1T*+	H100X044H2T	0.25	6.3	1.00	25.4	0.44	11.2	0.08	2.0	0.25	6.4				
H150X044H1T*+	H150X044H2T	0.25	6.3	1.50	38.1	0.44	11.2	0.08	2.0	0.25	6.4		1	500	
H200X044H1T*+	H200X044H2T	0.25	6.3	2.00	50.8	0.44	11.2	0.08	2.0	0.25	6.4				
H050X064H1T*+	H050X064H2T	0.38	9.7	0.50	12.7	0.64	16.3	0.13	3.3	0.38	9.7	12 – 6 AWG	4	2000	
H100X064H1T*+	H100X064H2T	0.38	9.7	1.00	25.4	0.64	16.3	0.13	3.3	0.38	9.7		2	1000	
H200X064H1T*+	H200X064H2T	0.38	9.7	2.00	50.8	0.64	16.3	0.13	3.3	0.38	9.7		1	500	
H050X084H1T	—	0.50	12.7	0.50	12.7	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	4	2000	
H100X084H1T+	H100X084H2T	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7		2	1000	
H200X084H1T+	H200X084H2T	0.50	12.7	2.00	50.8	0.84	21.3	0.17	4.3	0.50	12.7		1	500	
H050X165H1T	—	1.00	25.4	0.50	12.7	1.65	41.9	0.33	8.4	1.00	25.4	4 AWG – 500 MCM	4	1000	
H100X165H1T+	H100X165H2T	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4		2	500	
H200X165H1T+	H200X165H2T	1.00	25.4	2.00	50.8	1.65	41.9	0.33	8.4	1.00	25.4		1	250	
H200X240H1T	H200X240H2T	1.50	38.1	2.00	50.8	2.40	61.0	0.50	12.7	1.50	38.1	1 AWG – 1000 MCM	1	100	

Order number of labels required in multiples of Standard Package Quantity.
*Available in Bulk packages (5 times Labels Per Roll), add -B to end of part number
+Available in two additional colors, replace suffix H1T with (H3T) Black or (H4T) Red

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PATENTED Thermal Transfer Military Grade Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Can be printed on both sides for improved visibility
- Meets the material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3) and UL standard 224 with a VW-1 rating
- Meet SAE-AS81531, MIL-STD-883F Method 2015.13, Solutions A, B and D, and MIL-STD-202G Method 215K, Solutions A,C and D when printed using resin or hybrid thermal transfer ribbons
- Shrink ratio 3:1
- Tested as an identification marker for use in (Class 1E) harsh environments
- Use thermal transfer hybrid ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)
- UL224 recognized, File # E205133; CSA certified, C22.2 No. 198.1-06, File # 256205



Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O. D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X025H1T-2*	H100X025H2T-2*	0.13	3.1	1.00	25.4	0.25	6.4	0.04	1.0	0.13	3.3	22 – 18 AWG	2	1000	1
H200X025H1T-2*	H200X025H2T-2*	0.13	3.1	2.00	50.8	0.25	6.4	0.04	1.0	0.13	3.3		1	500	
H100X034H1T-2*	H100X034H2T-2*	0.19	4.7	1.00	25.4	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	1	1000	
H200X034H1T-2*	H200X034H2T-2*	0.19	4.7	2.00	50.8	0.34	8.6	0.06	1.5	0.19	4.8		1	500	
H100X044H1T-2*	H100X044H2T-2*	0.25	6.3	1.00	25.4	0.44	11.2	0.08	2.0	0.25	6.4	16 – 10 AWG	2	1000	
H200X044H1T-2*	H200X044H2T-2*	0.25	6.3	2.00	50.8	044	11.2	0.08	2.0	0.25	6.4		1	500	
H100X064H1T-2*	H100X064H2T-2*	0.38	9.7	1.00	25.4	0.64	16.3	0.13	3.3	0.38	9.7	12 – 6 AWG	2	1000	
H200X064H1T-2*	H200X064H2T-2*	0.38	9.7	2.00	50.8	0.64	16.3	0.13	3.3	0.38	9.7		1	500	
H100X084H1T-2*	H100X084H2T-2*	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	2	1000	
H200X084H1T-2*	H200X084H2T-2*	0.50	12.7	2.00	50.8	0.84	21.3	0.17	4.3	0.50	12.7		1	500	
H100X122H1T-2	H100X122H2T-2	0.75	19.0	1.00	25.4	1.22	31.0	0.25	6.3	0.75	19.0	8 – 4/0 AWG	2	500	
H200X122H1T-2	H200X122H2T-2	0.75	19.0	2.00	50.8	1.22	31.0	0.25	6.3	0.75	19.0		1	250	
H100X165H1T-2	H100X165H2T-2	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4	4 AWG – 500 kcmil	2	500	
H200X165H1T-2	H200X165H2T-2	1.00	25.4	2.00	50.8	1.65	41.9	0.33	8.4	1.00	25.4		1	250	

Order number of labels required in multiples of Standard Package Quantity.
*Available in Bulk packages (5 times Labels Per Roll), add -B to end of part number

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PATENTED Thermal Transfer Halogen-Free Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Can be printed on both sides for improved visibility
- Meet SAE-AS5942, MIL-STD-883F Method 2015.13, Solutions A, B, and D, and MIL-STD-202G Method 215K,Solutions A, C, and D when printed with resin and hybrid thermal transfer ribbons
- Meet BS6853; 1999 Vehicle Category 1A for burning behavior and toxic gas emissions; Smoke Density Class II
- Shrink ratio 2:1
- Use thermal transfer hybrid ribbon
- Temperature range: -22°F to 221°F (-30°C to 105°)



Part Number	Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X025HFT-2	H100X025HGT-2	0.13	3.1	1.00	25.4	0.25	6.4	0.06	1.5	0.13	3.3	22 – 18 AWG	2	1000	1
H200X025HFT-2	H200X025HGT-2	0.13	3.1	2.00	50.8	0.25	6.4	0.06	1.5	0.13	3.3		1	500	
H100X034HFT-2	H100X034HGT-2	0.19	4.7	1.00	25.4	0.34	8.6	0.09	2.3	0.19	4.8	18 – 12 AWG	2	1000	
H200X034HFT-2	H200X034HGT-2	0.19	4.7	2.00	50.8	0.34	8.6	0.09	2.3	0.19	4.8		1	500	
H100X044HFT-2	H100X044HGT-2	0.25	6.4	1.00	25.4	0.44	11.1	0.13	3.3	0.25	6.4	16 – 10 AWG	2	1000	
H200X044HFT-2	H200X044HGT-2	0.25	6.4	2.00	50.8	0.44	11.1	0.13	3.3	0.25	6.4		1	500	
H100X064HFT-2	H100X064HGT-2	0.38	9.7	1.00	25.4	0.64	16.2	0.19	4.8	0.38	9.7	12 – 6 AWG	2	1000	
H200X064HFT-2	H200X064HGT-2	0.38	9.7	2.00	50.8	0.64	16.2	0.19	4.8	0.38	9.7		1	500	
H100X084HFT-2	H100X084HGT-2	0.50	12.7	1.00	25.4	0.84	21.3	0.25	6.4	0.50	12.7	8 – 1 AWG	2	1000	
H200X084HFT-2	H200X084HGT-2	0.50	12.7	2.00	50.8	0.84	21.3	0.25	6.4	0.50	12.7		1	500	
H100X165HFT-2	H100X165HGT-2	1.00	25.4	1.00	25.4	1.65	41.9	0.50	12.7	1.00	25.4	8 AWG – 500 kcmil	2	500	
H200X165HFT-2	H200X165HGT-2	1.00	25.4	2.00	50.8	1.65	41.9	0.50	12.7	1.00	25.4		1	250	

Order number of labels required in multiples of Standard Package Quantity.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PATENTED Thermal Transfer Fluid-Resistant Two-Sided Heat Shrink Labels

- Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables
- Cross-linked, semi-rigid, fluid-resistant, shrinkable polyolefin material
- Available in yellow only
- Can be printed on both sides for improved visibility
- Meet the material requirements and physical properties AMS-DTL-23053/6 Class 1 and NF F00-608 Class A and H when printed with resin thermal transfer ribbons
- Meet SAE-AS5942, MIL-STD-883F Method 2015.13 Solutions A and D, and MIL-STD-202G Method 215K, Solutions A and D when printed with resin thermal transfer ribbons
- Shrink ratio 3:1
- Use thermal transfer RMER4BL-C resin ribbon
- Temperature range: -67°F to 275°F (-55°C to 135°C)



Part Number	Diameter		Width		Height		Min. Cable O.D.		Max. Cable O.D.		Wire Range	Labels Per Row	Labels Per Roll	Std. Pkg. Qty. (Roll)
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
H100X034HST-2	0.19	4.7	1.00	25.4	0.34	8.6	0.06	1.5	0.19	4.8	18 – 12 AWG	2	1000	1
H200X034HST-2	0.19	4.7	2.00	50.8	0.34	8.6	0.06	1.5	0.19	4.8		1	500	
H100X044HST-2	0.25	6.4	1.00	25.4	0.44	11.1	0.08	2.0	0.25	6.4	16 – 10 AWG	2	1000	
H200X044HST-2	0.25	6.4	2.00	50.8	0.44	11.1	0.08	2.0	0.25	6.4		1	500	
H100X064HST-2	0.38	9.7	1.00	25.4	0.64	16.2	0.13	3.3	0.38	9.7	12 – 6 AWG	2	1000	
H200X064HST-2	0.38	9.7	2.00	50.8	0.64	16.2	0.13	3.3	0.38	9.7		1	500	
H100X084HST-2	0.50	12.7	1.00	25.4	0.84	21.3	0.17	4.3	0.50	12.7	8 – 1 AWG	2	1000	
H200X084HST-2	0.50	12.7	2.00	50.8	0.84	21.3	0.17	4.3	0.50	12.7		1	500	
H100X165HST-2	1.00	25.4	1.00	25.4	1.65	41.9	0.33	8.4	1.00	25.4	8 AWG – 500 kcmil	2	500	
H200X165HST-2	1.00	25.4	2.00	50.8	1.65	41.9	0.33	8.4	1.00	25.4		1	250	

Heat Shrink Tools and Accessories

- Adjustable air intake regulator provides variable temperature adjustment within the units rated heat range
- Toggle type control switch provides hot/cold/off operation
- Replaceable brushes are easy to service and extend the operating life of the gun
- Unique suspended quick change heating element design prolongs life and eases servicing



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
HSG-115V-650	Heat gun with stand. Temperature range of 700°F (371°C) to 1000°F (538°C) plus stand. (Accessories not included).	1	—
HSG-A1	Shrink tube reflector for tubing up to 3/4" inside diameter. Directs heat around tubing to reduce shrink time.		10
HSG-A2	Shrink tube reflector for tubing up to 1 1/2" inside diameter. Directs heat around tubing to reduce shrink time.		10
HSG-P1	Replacement brush / spring kit.		5
HSG-P2	Replacement switch 20 Amp.		5
HSG-P3	Replacement bearing kit.		5
HSG-P7	Replacement heat element 700°F.		—

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Thermal Transfer Component Labels

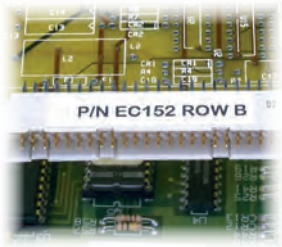
- Polyester labels provide durability; high-temperature resistance and dimensional stability; does not easily stretch or tear
- Super-Tack Polyester labels are used on rough textured, painted, and coated surfaces
- Tedlar® labels are self-extinguishing and ideal for high-temperature areas. Meet Federal Motor Vehicle Safety Standard (FMVSS-302)*
- Vinyl Cloth labels are ideal for temporary marking of chips, boards, and ICs. Pliable material is suitable for rough texture surfaces
- Polyimide labels are ideal for electronic components and internal circuitry applications
- Paper labels are for general purpose use

- Use recommended ribbon below:
  Polyester, Super-Tack Polyester, Tedlar®, and Non-Adhesive Polyester use thermal transfer resin ribbon

  White Polyimide use thermal transfer RMER4BL-C resin ribbon

  Vinyl Cloth, Tan Polyimide, and Paper use thermal transfer hybrid ribbon

- Temperature range:
  Polyester, Super-Tack Polyester, Non-Adhesive
  Polyester: -40°F to 302°F (-40°C to 150°C)
  Tedlar®: -40°F to 225°F (-40°C to 106°C)
  Vinyl Cloth: -40°F to 170°F (-40°C to 77°C)
  Polyimide: -40°F to 350°F (-40°C to 177°C)
  Paper: -65°F to 160°F (-54°C to 71°C)



Part Number	Color	Material	Width		Height		Type of Application	Labels Per Row	Std. Pkg. Qty.
			In.	mm	In.	mm			
C025X025KBT	White	Polyimide	0.25	6.4	0.25	6.4	General Identifier	12	10000
C025X025KCT	Tan		0.25	6.4	0.25	6.4			
C025X025YJT	White	Polyester	0.25	6.4	0.25	6.4			
C038X038KBT	White	Polyimide	0.38	9.7	0.38	9.7	General Identifier	7	10000
C038X038KCT	Tan	Polyimide	0.38	9.7	0.38	9.7			
C038X038YJT	White	Polyester	0.38	9.7	0.38	9.7			
C050X013KBT	White	Polyimide	0.50	12.7	0.13	3.3	General Identifier	5	10000
C050X013KCT	Tan	Polyimide	0.50	12.7	0.13	3.3			
C050X020KBT	White	Polyimide	0.50	12.7	0.20	5.1			
C050X044CBT	White	Vinyl Cloth	0.50	12.7	0.44	11.2			
C050X044KBT	White	Polyimide	0.50	12.7	0.44	11.2			
C050X044KCT	Tan	Polyimide	0.50	12.7	0.44	11.2			
C050X044YJT	White	Polyester	0.50	12.7	0.44	11.2			
C060X020CBT	White	Vinyl Cloth	0.60	15.3	0.20	5.1	General Identifier	3	10000
C060X020KBT	White	Polyimide	0.60	15.3	0.20	5.1			
C060X020KCT	Tan	Polyimide	0.60	15.3	0.20	5.1			
C060X020TJT	White	Tedlar*	0.60	15.3	0.20	5.1			
C060X020YJT	White	Polyester	0.60	15.3	0.20	5.1			
C061X030YPT	White	Super-Tack Polyester	0.61	15.5	0.30	7.6	1-Port Identifier	4	2500
C065X019KBT	White	Polyimide	0.65	16.5	0.19	4.8	General Identifier	3	10000
C065X019KCT	Tan		0.65	16.5	0.19	4.8			

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.
Other colors and sizes available. Refer to www.panduit.com for additional information.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Thermal Transfer Component Labels (continued)

Part Number	Color	Material	Width		Height		Type of Application	Labels Per Row	Std. Pkg. Qty.
			In.	mm	In.	mm			
C075X025AAT	Silver	Tamper-Evident Polyester	0.75	19.1	0.25	6.4	General Identifier	3	10000
C075X025CBT	White	Vinyl Cloth	0.75	19.1	0.25	6.4			
C075X025KBT	White	Polyimide	0.75	19.1	0.25	6.4			
C075X025KCT	Tan		0.75	19.1	0.25	6.4			
C075X025PBT	White	Paper	0.75	19.1	0.25	6.4			
C075X025YJT		Polyester	0.75	19.1	0.25	6.4			
C075X025YMT	Silver	Polyester	0.75	19.1	0.25	6.4			
C080X020KBT	White	Polyimide	0.80	20.3	0.20	5.1			
C080X020KCT	Tan		0.80	20.3	0.20	5.1			
C080X020YJT	White	Polyester	0.80	20.3	0.20	5.1			
C090X025KBT		Polyimide	0.90	22.9	0.25	6.4			
C090X025KCT	Tan	Polyimide	0.90	22.9	0.25	6.4			
C090X025TJT	White	Tedlar*	0.90	22.9	0.25	6.4			
C090X025YJT		Polyester	0.90	22.9	0.25	6.4			
C100X019KBT		Polyimide	1.00	25.4	0.19	4.8			
C100X019KCT	Tan	Polyimide	1.00	25.4	0.19	4.8			
C100X025CBT	White	Vinyl Cloth	1.00	25.4	0.25	6.4			
C100X025KBT		Polyimide	1.00	25.4	0.25	6.4			
C100X025KCT	Tan	Polyimide	1.00	25.4	0.25	6.4			
C100X025YJT	White	Polyester	1.00	25.4	0.25	6.4			
C100X038CBT		Vinyl Cloth	1.00	25.4	0.38	9.7			
C100X038KBT		Polyimide	1.00	25.4	0.38	9.7			
C100X038KCT	Tan	Polyimide	1.00	25.4	0.38	9.7			
C100X038TJT	White	Tedlar*	1.00	25.4	0.38	9.7			
C100X038YJT		Polyester	1.00	25.4	0.38	9.7			
C100X050AAT	Silver	Tamper-Evident Polyester	1.00	25.4	0.50	12.7			
C100X050CBT	White	Vinyl Cloth	1.00	25.4	0.50	12.7			
C100X050PBT		Paper	1.00	25.4	0.50	12.7			
C100X050TJT		Tedlar*	1.00	25.4	0.50	12.7			
C100X050YJT		Polyester	1.00	25.4	0.50	12.7			
C100X050YKT	Clear	Polyester	1.00	25.4	0.50	12.7			
C100X050YMT	Silver	Polyester	1.00	25.4	0.50	12.7			
C100X050YPT	White	Super-Tack Polyester	1.00	25.4	0.50	12.7			
C125X025KBT		Polyimide	1.25	31.8	0.25	6.4	General Identifier	2	10000
C125X025KCT	Tan	Polyimide	1.25	31.8	0.25	6.4			
C125X030YPT	White	Super-Tack Polyester	1.25	31.8	0.30	7.6	2-port identifier	3	2500
C125X038TJT		Tedlar*	1.25	31.8	0.38	9.7	General Identifier	3	
C125X038YJT		Polyester	1.25	31.8	0.38	9.7		3	10000
C138X019Y0T	Black	Super-Tack Polyester	1.38	35.1	0.19	4.8	Module	1	2500
C138X019YPT	White		1.38	35.1	0.19	4.8			
C150X025KBT	White	Polyimide	1.50	38.1	0.25	6.4	General Identifier	2	5000
C150X025KCT	Tan	Polyimide	1.50	38.1	0.25	6.4			

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.
Other colors and sizes available. Refer to www.panduit.com for additional information.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Continued on next page

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Thermal Transfer Component Labels (continued)

Part Number	Color	Material	Width		Height		Type of Application	Labels Per Row	Std. Pkg. Qty.
			In.	mm	In.	mm			
C150X030Y1T	White	Non-Adhesive Polyester	1.50	38.1	0.30	7.6	3-Port Identifier	2	1000
C150X050YJT	White	Polyester	1.50	38.1	0.50	12.7	General Identifier	1	5000
C150X075CBT		Vinyl Cloth	1.50	38.1	0.75	19.1			
C150X075YJT		Polyester	1.50	38.1	0.75	19.1			
C150X075YMT	Silver	Polyester	1.50	38.1	0.75	19.1			
C160X020CBT	White	Vinyl Cloth	1.60	40.6	0.20	5.1	General Identifier	1	10000
C160X020KBT		Polyimide	1.60	40.6	0.20	5.1			
C160X020KCT	Tan	Polyimide	1.60	40.6	0.20	5.1			
C160X020YJT	White	Polyester	1.60	40.6	0.20	5.1			
C188X030YKT	Clear		1.60	40.6	0.20	5.1			
C188X030YPT	White	Super-Tack Polyester	1.88	47.8	0.30	7.6	3-Port Identifier	1	2500
C195X040Y1T		Non-Adhesive Polyester	1.95	49.5	0.40	10.2	Single-Gang Faceplate	2	1000
C200X025KBT		Polyimide	2.00	50.8	0.25	6.4	General Identifier	1	5000
C200X025KCT	Tan	Polyimide	2.00	50.8	0.25	6.4			
C200X025YJT	White	Polyester	2.00	50.8	0.25	6.4			
C200X038KBT		Polyimide	2.00	50.8	0.38	9.7			
C200X038TJT		Tedlar*	2.00	50.8	0.38	9.7			
C200X038YJT		Polyster	2.00	50.8	0.38	9.7			
C200X050CBT		Vinyl Cloth	2.00	50.8	0.50	12.7			
C200X050YJT		Polyester	2.00	50.8	0.50	12.7			
C200X100AAT	Silver	Tamper-Evident Polyester	2.00	50.8	1.00	25.4	General Identifier	1	2500
C200X100PBT	White	Paper	2.00	50.8	1.00	25.4			
C200X100TJT		Tedlar*	2.00	50.8	1.00	25.4			
C200X100Y0T	Black	Super-Tack Polyester	2.00	50.8	1.00	25.4			
C200X100YJT	White	Polyester	2.00	50.8	1.00	25.4			
C200X100YKT	Clear		2.00	50.8	1.00	25.4			
C200X100YMT	Silver		2.00	50.8	1.00	25.4			
C200X100YPT	White	Super-Tack Polyester	2.00	50.8	1.00	25.4			
C252X030YPT	White	Super-Tack Polyester	2.52	64.0	0.30	7.6	4-Port	1	2500
C261X030YPT			2.61	66.3	0.30	7.6			
C261X035Y1T		Non-Adhesive Polyester	2.61	66.3	0.35	8.9	4-Port	2	1000
C275X125AAT	Silver	Tamper-Evident Polyester	2.75	69.9	1.25	31.8	General Identifer	1	2500
C275X125YJT	White	Polyester	2.75	69.9	1.25	31.8			
C275X125YMT	Silver	Polyester	2.75	69.9	1.25	31.8			
C275X125Y0T	Black	Super-Tack Polyester	2.75	69.9	1.25	31.8			
C275X125YPT	White	Super-Tack Polyester	2.75	69.9	1.25	31.8			
C288X030YPT			2.88	73.2	0.30	7.6	5-Port Identifier	1	2500
C288X040Y1T	White	Non-Adhesive Polyester	2.88	73.2	0.40	10.2	Double-Gang Faceplate	2	2500

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.
Other colors and sizes available. Refer to www.panduit.com for additional information.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Thermal Transfer Component Labels (continued)

Part Number	Color	Material	Width		Height		Type of Application	Labels Per Row	Std. Pkg. Qty.
			In.	mm	In.	mm			
C300X025KBT	White	Polyimide	3.00	76.2	0.25	6.4	General Identifier	1	5000
C300X025KCT	Tan		3.00	76.2	0.25	6.4			
C300X025YJT	White	Polyester	3.00	76.2	0.25	6.4			
C300X038TJT		Tedlar*	3.00	76.2	0.38	9.7			
C300X038YJT		Polyester	3.00	76.2	0.38	9.7			
C300X100YJT		Polyester	3.00	76.2	1.00	25.4	General Identifier		2500
C300X100YMT	Silver	Polyester	3.00	76.2	1.00	25.4			
C300X200PBT	White	Paper	3.00	76.2	2.00	50.8	General Identifier		1000
C300X200YJT	White	Polyester	3.00	76.2	2.00	50.8			
C300X200YMT	Silver		3.00	76.2	2.00	50.8			
C300X200YPT	White	Super-Tack Polyester	3.00	76.2	2.00	50.8	General Identifier	1	2500
C315X030YPT		Super-Tack Polyester	3.15	80.0	0.30	7.6	5-Port Identifier	1	
C350X100YJT		Polyester	3.50	88.9	1.00	25.4	General Identifier	1	
C379X030YPT		Super-Tack Polyester	3.79	96.3	0.30	7.6	6-Port Identifier	1	
C390X030Y1T		Non-Adhesive Polyester	3.90	99.1	0.30	7.6		2	
C400X100CBT		Vinyl Cloth	4.00	101.6	1.00	25.4	General Identifier	1	2500
C400X100PBT		Paper	4.00	101.6	1.00	25.4			
C400X100YJT		Polyester	4.00	101.6	1.00	25.4			
C400X200PBT		Paper	4.00	101.6	2.00	50.8	General Identifier		1000
C400X200Y8T	Yellow	Super-Tack Polyester	4.00	101.6	2.00	50.8			
C400X200YJT	White	Polyester	4.00	101.6	2.00	50.8			
C400X200YMT	Silver		4.00	101.6	2.00	50.8			
C400X200YPT			4.00	101.6	2.00	50.8			
C400X300PBT	White	Paper	4.00	101.6	3.00	76.2	General Identifier	1	2500
C400X300YJT		Polyester	4.00	101.6	3.00	76.2			
C400X300YPT		Super-Tack Polyester	4.00	101.6	3.00	76.2			
C400X400YJT		Polyester	4.00	101.6	4.00	101.6	General Identifier		1000
C400X500PBT		Paper	4.00	101.6	5.00	127.0			
C400X600PBT			4.00	101.6	6.00	152.4			
C400X600YJT		Polyester	4.00	101.6	6.00	152.4			
C750X050Y1T		Non-Adhesive Polyester	7.50	190.5	0.50	12.7	110 Block	1	1000
C788X050Y1T			7.88	200.2	0.50	12.7	GP6™ Punchdown System	1	1000

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.
Other colors and sizes available. Refer to www.panduit.com for additional information.
*Tedlar is a registered trademark of E.I. du Pont de Nemours and Company.

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NEW!

Terminal Block Markers

- Ideally suited for terminal block labeling applications within control panels
- Flexible marker design; create and install single or multiple markers in a single step
- Less marker waste – print only as many as you need
- Flexible halogen-free markers have superior holding strength in terminal blocks, eliminating markers that fall out
- Easy-Mark Plus™ Labeling Software required for printing terminal block markers
- Meets EN61010-1 (VDE 0411-1) for abrasion and wipe resistance
- Meets EN ISO 175 for oil and chemical resistance
- Meets EN 60464-3:2001 for resistance to solvents
- Meets IEC 60947-4-1/2 for resistance to aging
- Meets IEC 60068-2-8 for vibration resistance
- Use thermal transfer RMER1BL resin ribbon
- Temperature range: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Description	Width mm	Height mm	Allen-Bradley Terminal Block Compatibility	Weldmuller Terminal Block Compatibility	Markers Per Roll	Std. Pkg. Qty.
TB05X12EWT-AB1	White	Flexible terminal block markers on continuous rolls	5.0	12.0	1492-J3, 1492-W3	WDU 2.5	1000	1
TB06X12EWT-AB1			6.0	12.0	1492-J4, 1492-W4	WDU 4	1000	
TB08X12EWT-AB1			8.0	12.0	1492-J6	WDU 6	750	
TB05X08EWT-AB2			5.0	8.0	1492-JD3, 1492-L3 1492-LD3 1493-L3Q	WDR 2.5	1000	
TB06X08EWT-AB2			6.0	8.0	1492-JD4, 1492-L4 1492-LD4	WDR 4	1000	

Order number of markers required in multiples of Standard Package Quantity.
Markers will not fit inside the printer. The external roll stand (TDP43ME-RS) is required.
Terminal Block Adapter Kit (TDP43ME-TB-KIT) is required to print the terminal block markers. (See page E1.12 for additional information.)

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Raised Panel Labels

- Raised thermal transfer printable surface with high-tack adhesive for strong holding power
- Variety of sizes and colors for a wide range of applications
- Meets DIN 40050-9, IP69K for washdown applications
- Thermal transfer print technology provides crisp, clear, and durable text
- Use with thermal transfer resin ribbon
- Temperature range: -40°F to 212°F (-40°C to 100°C)







Raised Panel Push Button Labels

Part Number	Color	Width		Height		Print-On Area Height		Hole Diameter		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm		
C120X150APT-22	White	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0	3	500
C120X150A8T-22	Yellow	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0		
C120X150AST-22	Green	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0		
C120X150AWT-22	Red	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0		
C120X150A0T-22	Black	1.20	30.5	1.50	38.1	0.45	11.4	0.87	22.0		
C120X190APT-22	White	1.20	30.5	1.90	48.3	0.85	21.6	0.87	22.0		
C120X190A8T-22	Yellow	1.20	30.5	1.90	48.3	0.85	21.6	0.87	22.0		
C120X190AST-22	Green	1.20	30.5	1.90	48.3	0.85	21.6	0.87	22.0		
C120X190AWT-22	Red	1.20	30.5	1.90	48.3	0.85	21.6	0.87	22.0		
C120X190A0T-22	Black	1.20	30.5	1.90	48.3	0.85	21.6	0.87	22.0		
C180X180APT-30	White	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0	2	
C180X180A8T-30	Yellow	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0		
C180X180AST-30	Green	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0		
C180X180AWT-30	Red	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0		
C180X180A0T-30	Black	1.80	45.7	1.80	45.7	0.36	9.1	1.18	30.0		
C240X240APT-30	White	2.40	61.0	2.40	61.0	0.90	22.9	1.18	30.0	1	
C240X240A8T-30	Yellow	2.40	61.0	2.40	61.0	0.90	22.9	1.18	30.0		
C240X240AST-30	Green	2.40	61.0	2.40	61.0	0.90	22.9	1.18	30.0		
C240X240AWT-30	Red	2.40	61.0	2.40	61.0	0.90	22.9	1.18	30.0		
C240X240A0T-30	Black	2.40	61.0	2.40	61.0	0.90	22.9	1.18	30.0		

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

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Raised Panel Half Push Button Labels

Part Number	Color	Width		Height		Print-On Area Height		Hole Diameter		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm		
C180X130APT-30H	White	1.80	45.7	1.30	33.0	0.73	18.5	1.18	30.0	1	500
C240X200APT-30H		2.40	61.0	2.00	50.8	1.43	36.3				

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Thermal Transfer Raised Panel Labels (continued)

Raised Panel Component Labels

Part Number	Color	Width		Height		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm		
C100X050APT	White	1.00	25.4	0.50	12.7	3	500
C100X050A8T	Yellow						
C100X050AST	Green						
C100X050AUT	Orange						
C100X050AWT	Red						
C100X050A0T	Black						
C100X050AMT	Silver						
C125X030APT	White	1.25	31.8	0.30	7.6	1	500
C125X030A0T	Black						
C170X090APT	White	1.70	43.2	0.90	22.9		
C170X090A8T	Yellow						
C170X090AST	Green						
C170X090AWT	Red						
C170X090AMT	Silver						
C200X100APT	White	2.00	50.8	1.00	25.4		
C200X100A8T	Yellow						
C200X100AST	Green						
C200X100AUT	Orange						
C200X100AWT	Red						
C200X100A0T	Black						
C200X100AMT	Silver						
C252X030APT	White	2.52	64.0	0.30	7.6		
C252X030A0T	Black						
C300X100APT	White	3.00	76.2	1.00	25.4		
C300X100A8T	Yellow						
C300X100AUT	Orange						
C300X100AWT	Red						
C300X100A0T	Black						
C300X250APT	White			2.50	63.5		
C300X250A8T	Yellow						
C300X250AST	Green						
C300X250AUT	Orange						
C300X250AWT	Red						
C300X250A0T	Black						
C300X250AMT	Silver						

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Thermal Transfer Raised Panel Labels (continued)

Raised Panel Component Labels

Part Number	Color	Width		Height		Labels Per Row	Std. Pkg. Qty.
		In.	mm	In.	mm		
C350X300APT	White	3.50	88.9	3.00	76.2	1	500
C350X300A8T	Yellow						
C350X300AUT	Orange						
C350X300A0T	Black						
C379X030APT	White	3.79	96.3	0.30	7.6		
C379X030AQT	Blue						
C379X030AWT	Red						
C379X030A0T	Black						
C400X100APT	White	4.00	101.6	1.00	25.4	1.00	25.4
C400X100A8T	Yellow						
C400X100AST	Green						
C400X100AUT	Orange						
C400X100AWT	Red						
C400X100A0T	Black						
C400X100AMT	Silver						

Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Thermal Transfer Continuous Tapes

- Tapes offer crisp, clear legends with superior legibility
- Conformable material for flat applications and safety and facility identification
- Can be over-laminated to increase durability
- Use thermal transfer resin ribbon
- Temperature ranges:
  Vinyl: -58°F to 176°F (-50°C to 80°C)
  Polyolefin: -40°F to 180°F (-40°C to 82°C)
  Polyester & Super-Tack Polyester: -40°F to 302°F (-40°C to 150°C)
  Reflective: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Material	Width		Length		Std. Pkg. Qty. (Roll)
			In.	mm	Ft.	m	
T024X000FJT*	White	Polyolefin	0.24	6.1	100.0	30.5	1
T031X000FJT*			0.31	7.9	100.0	30.5	
T038X000FJT*			0.38	9.7	100.0	30.5	
T038X000Y01	Black	Super-Tack Polyester	0.38	9.7	100.0	30.5	
T038X000YP1	White	Super-Tack Polyester	0.38	9.7	100.0	30.5	
T050X000FJT*		Polyolefin	0.50	12.7	100.0	30.5	
T050X000Y01	Black	Super-Tack Polyester	0.50	12.7	100.0	30.5	
T050X000YP1	White		0.50	12.7	100.0	30.5	
T100X000RPT	White	Reflective	1.00	25.4	50.0	15.2	
T100X000RUT	Orange		1.00	25.4	50.0	15.2	
T100X000RWT	Red		1.00	25.4	50.0	15.2	
T100X000RXT	Yellow		1.00	25.4	50.0	15.2	
T100X000VP1Y	White	Vinyl	1.00	25.4	100.0	30.5	
T100X000VQ1Y	Blue		1.00	25.4	100.0	30.5	
T100X000VS1Y	Green		1.00	25.4	100.0	30.5	
T100X000VU1Y	Orange		1.00	25.4	100.0	30.5	
T100X000VW1Y	Red		1.00	25.4	100.0	30.5	
T100X000VX1Y	Yellow		1.00	25.4	100.0	30.5	
T100X000VY1Y	Black		1.00	25.4	100.0	30.5	
T100X000Y01	Black	Super-Tack Polyester	1.00	25.4	100.0	30.5	
T100X000Y81	Yellow		1.00	25.4	100.0	30.5	
T100X000YK1	Clear	Polyester	1.00	25.4	100.0	30.5	
T100X000YP1	White	Super-Tack Polyester	1.00	25.4	100.0	30.5	
T100X000YQ1	Blue		1.00	25.4	100.0	30.5	
T100X000YS1	Green		1.00	25.4	100.0	30.5	
T100X000YU1	Orange		1.00	25.4	100.0	30.5	
T100X000YW1	Red		1.00	25.4	100.0	30.5	
T200X000RPT	White	Reflective	2.00	50.8	50.0	15.2	
T200X000RUT	Orange		2.00	50.8	50.0	15.2	
T200X000RWT	Red		2.00	50.8	50.0	15.2	
T200X000RXT	Yellow		2.00	50.8	50.0	15.2	
T200X000VP1Y	White	Vinyl	2.00	50.8	100.0	30.5	
T200X000VQ1Y	Blue		2.00	50.8	100.0	30.5	
T200X000VR1Y	Brown		2.00	50.8	100.0	30.5	
T200X000VS1Y	Green		2.00	50.8	100.0	30.5	
T200X000VT1Y	Gray		2.00	50.8	100.0	30.5	
T200X000VU1Y	Orange		2.00	50.8	100.0	30.5	
T200X000VV1Y	Purple		2.00	50.8	100.0	30.5	
T200X000VW1Y	Red		2.00	50.8	100.0	30.5	
T200X000VX1Y	Yellow		2.00	50.8	100.0	30.5	
T200X000VY1Y	Black		2.00	50.8	100.0	30.5	
T200X000Y01	Black	Super-Tack Polyester	2.00	50.8	100.0	30.5	
T200X000Y81	Yellow		2.00	50.8	100.0	30.5	
T200X000YK1	Clear	Polyester	2.00	50.8	100.0	30.5	

Order number of rolls required in multiples of Standard Package Quantity.
*Labels are roll mounted on 3.00" cores; when using the TDP43ME printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Thermal Transfer Continuous Tapes (continued)

Part Number	Color	Material	Width		Length		Std. Pkg. Qty. (Roll)
			In.	mm	Ft.	m	
T200X000YP1	White	Super-Tack Polyester	2.00	50.8	100.0	30.5	1
T200X000YQ1	Blue		2.00	50.8	100.0	30.5	
T200X000YS1	Green		2.00	50.8	100.0	30.5	
T200X000YU1	Orange		2.00	50.8	100.0	30.5	
T200X000YW1	Red		2.00	50.8	100.0	30.5	
T225X000YK1	Clear	Polyester	2.25	57.2	100.0	30.5	
T300X000RPT	White	Reflective	3.00	76.2	50.0	15.2	
T400X00RPT			4.00	101.6	50.0	15.2	
T400X000RUT	Orange		4.00	101.6	50.0	15.2	
T400X000RWT	Red		4.00	101.6	50.0	15.2	
T400X000RXT	Yellow		4.00	101.6	50.0	15.2	
T400X000RQT	Blue		4.00	101.6	50.0	15.2	
T400X000VP1Y	White	Vinyl	4.00	101.6	100.0	30.5	
T400X000VQ1Y	Blue		4.00	101.6	100.0	30.5	
T400X000VR1Y	Brown		4.00	101.6	100.0	30.5	
T400X000VS1Y	Green		4.00	101.6	100.0	30.5	
T400X000VT1Y	Gray		4.00	101.6	100.0	30.5	
T400X000VU1Y	Orange		4.00	101.6	100.0	30.5	
T400X000VV1Y	Purple		4.00	101.6	100.0	30.5	
T400X000VW1Y	Red		4.00	101.6	100.0	30.5	
T400X000VX1Y	Yellow		4.00	101.6	100.0	30.5	
T400X000VY1Y	Black		4.00	101.6	100.0	30.5	
T400X000Y01	Black	Super-Tack Polyester	4.00	101.6	100.0	30.5	
T400X000Y81	Yellow		4.00	101.6	100.0	30.5	
T400X000YK1	Clear	Polyester	4.00	101.6	100.0	30.5	
T400X000YP1	White	Super-Tack Polyester	4.00	101.6	100.0	30.5	
T400X000YQ1	Blue		4.00	101.6	100.0	30.5	
T400X000YS1	Green		4.00	101.6	100.0	30.5	
T400X000TU1	Orange		4.00	101.6	100.0	30.5	
T400X000YW1	Red		4.00	101.6	100.0	30.5	
T425X000YK1	Clear	Polyester	4.00	101.6	100.0	30.5	

Order number of rolls required in multiples of Standard Package Quantity.
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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PATENTED Laser/Ink Jet Turn-Tell® Labels

- Labels rotate and slide along cables after installation for visibility from any angle, and allow repositioning on the wire/cable to align legends for improved aesthetics
- Ideal for use in high-density or space-constrained cable applications
- Eliminate the need to disconnect wire or replace label in the event of re-termination
- Temperature range: -0°F to 275°F (-18°C to 135°C)



2015 Cabling Installation & Maintenance Silver Innovators Awards

Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire/Cable Size Range	Labels Per Row	Labels Per Sheet	Labels Per Pkg.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
R050X075X1J	White	0.50	12.7	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	12	84	5000
R050X125X1J		0.50	12.7	1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/ 12 – 10 AWG		60	5000
R050X150X1J		0.50	12.7	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ CAT. 5e FTP/ 10 – 6 AWG		48	2500
R100X075X1J	White	1.00	25.4	0.75	19.1	0.25	6.4	0.12	3.1	0.16	4.1	Cat. 6 28 AWG/ 18 – 14 AWG	6	42	2500
R100X125X1J		1.00	25.4	1.25	31.8	0.38	9.7	0.16	4.1	0.22	5.6	Cat. 3 UTP/ 12 – 10 AWG	6	30	2500
R100X150X1J		1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ Cat. 5e FTP/ 10 – 6 AWG	6	24	1000
R100X150X2J	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150X3J	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150X7J	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X150X8J	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1				
R100X225X1J	White	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG		18	1000
R100X225X2J	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225X3J	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225X7J	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X225X8J	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9				
R100X400X1J	White	1.00	25.4	4.00	101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG	6	12	1000
R150X150X1J		1.50	38.1	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1	Cat. 5e UTP/ Cat. 6 UTP/ Cat. 6A UTP/ CAT. 5e FTP/ 10 – 6 AWG	4	16	
R200X150X1J		2.00	50.8	1.50	38.1	0.50	12.7	0.22	5.6	0.28	7.1		3	12	
R200X225X1J		2.00	50.8	2.25	57.2	0.75	19.1	0.28	7.1	0.39	9.9	Cat. 6 FTP/ Cat. 6A UTP/ Cat. 6A FTP/ 8 – 4 AWG	3	9	500
R200X400X1J	White	2.00	50.8	4.00	101.6	1.00	25.4	0.39	9.9	0.95	24.1	2 – 1 AWG	3	6	500

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Laser/Ink Jet Self-Laminating Labels

- Labels can be printed in both laser and ink jet printers
- Self-laminating adhesive labels include a colored print-on area and clear overlaminate
- Provide durability; high-temperature resistance, and dimensional stability; do not stretch or easily tear; preferred method for wire/cable labeling
- Meets ASTM E-595 for air space handling (white only)
- Temperature range: -65°F to 225°F (-54°C to 107°C)



Part Number	Print-On Area Color	Width In.	Width mm	Length In.	Length mm	Print-On Area Height In.	Print-On Area Height mm	Min. Cable O.D. In.	Min. Cable O.D. mm	Max. Cable O.D. In.	Max. Cable O.D. mm	Wire/Cable Size Range	Labels Per Row	Labels Per Sheet	Labels Per Pkg.
S050X075YAJ	White	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG / 18 – 14 AWG	13	169	5000
S050X125YAJ		0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/12 – 10 AWG		104	
S050X150YAJ		0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/ Cat. 5e FTP/10 – 6 AWG		78	
S075X075YAJ	White	0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	Cat. 6 28 AWG / 18 – 14 AWG	9	117	2500
S075X125YAJ		0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 – 10 AWG		72	
S075X150YAJ		0.75	19.1	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/Cat. 5e FTP/10 – 6 AWG		54	
S100X075YAJ	White	1.00	25.4	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.1	18 – 14 AWG	7	91	2500
S100X125YAJ		1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	Cat. 3 UTP/ 12 –10 AWG		56	
S100X150YAJ	White	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP /Cat. 5e FTP/10 – 6 AWG	7	42	2500
S100X150YBJ	TIA Blue	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YCJ	TIA Brown	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YDJ	TIA Green	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YEJ	TIA Gray	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YFJ	TIA Orange	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YGJ	TIA Purple	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YHJ	TIA Red	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X150YIJ	TIA Yellow	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1				
S100X225YAJ	White	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4	Cat. 6 FTP/Cat. 6A UTP/Cat. 6A FTP/8 - 4 AWG	8	32	1000
S100X225YBJ	TIA Blue	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YCJ	TIA Brown	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YDJ	TIA Green	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YEJ	TIA Gray	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YFJ	TIA Orange	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YGJ	TIA Purple	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YHJ	TIA Red	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X225YIJ	TIA Yellow	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.4				
S100X400YAJ	White	1.00	25.4	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 -1 AWG	7	14	1000
S100X650YAJ		1.00	25.4	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4	1/0 - 350 MCM		7	
S150X400YAJ		1.50	38.1	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 - 1 AWG	5	14	1000
S150X400YIJ	TIA Yellow	1.50	38.1	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3				
S200X150YAJ	White	2.00	50.8	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP /Cat. 5e FTP/10 – 6 AWG	4	24	1000
S200X225YAJ		2.00	50.8	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/Cat. 6A UTP/Cat. 6A FTP/ 8 - 4 AWG		16	
S200X400YAJ	White	2.00	50.8	4.00	101.6	1.00	25.4	0.32	8.1	0.95	24.3	2 - 1 AWG	4	8	1000
S200X650YAJ	White	2.00	50.8	6.50	165.1	1.50	38.1	0.48	12.1	1.59	40.4	1/0 - 350 MCM	4	4	500

Order number of labels required in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Laser/Ink Jet Tedlar™ Labels

- Self-extinguishing material
- Includes a colored print-on area and clear over-laminate to protect the legend for clear and durable identification
- Labels are sized specifically for wire and cable applications
- Temperature range: 0°F to 275°F (-18°C to 135°C)
- UL Recognized: UL969, File # MH 14576, CUL Recognized: C22.2 No. 0.15-01, File # MH 14576



Part Number	Print-On Area Color	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Wire/Cable Size Range	Labels Per Row	Labels Per Sheet	Labels Per Pkg.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm				
S100X150TAJ-A	White	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.1	0.32	8.1	Cat. 5e UTP/Cat. 6 UTP/Cat. 6A UTP/Cat. 5e FTP/10 – 6 AWG	7	42	2500
S100X225TAJ-A		1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	Cat. 6 FTP/Cat. 6A UTP/ Cat. 6A FTP/8 – 4 AWG		28	1000

Tedlar™ is a registered trademark of E. I. du Pont de Nemours and Company.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Laser/Ink Jet Non-Laminated Labels

- Labels can be printed in both laser and ink jet printers
- Use as a wrap around label or flag style labels for wire/cable labeling
- Temperature range: -40°F to 180°F (-40°C to 82°C)





Part Number	Color	Width		Length		Min. Cable O.D.		Max. Cable O.D.		Wire/Cable Size Range	Labels Per Row	Labels Per Sheet	Labels Per Pkg.
		In.	mm	In.	mm	In.	mm	In.	mm				
N025X075FJJ	White	0.25	6.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	25	275	10000
N025X125FJJ		0.25	6.4	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		175	
N025X150FJJ		0.25	6.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG	67	150	
N050X075FJJ		0.50	12.7	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	14	154	10000
N050X125FJJ		0.50	12.7	1.25	31.8	0.20	5.1	0.32	8.1	10 – 6 AWG		98	
N050X150FJJ		0.50	12.7	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		84	5000
N100X075FJJ		1.00	25.4	0.75	19.1	0.12	3.1	0.16	4.1	12 – 10 AWG	7	77	5000
N100X125FJJ		1.00	25.4	1.25	31.8	0.20	4.1	0.32	8.1	10 – 6 AWG		49	
N100X150FJJ		1.00	25.4	1.50	38.1	0.24	6.1	0.40	10.2	8 – 2 AWG		42	2500

Order number of labels required in multiples of Standard Package Quantity.

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Laser/Ink Jet Component Labels

- Labels can be printed in both laser and ink jet printers
- Tamper-evident labels allow you to see if there has been label tampering by leaving a checkerboard of silver material when label is removed
- Temperature range for polyester labels: -40°F to 311°F (-40°C to 154°C)
- Temperature range for silver polyester labels (Laser printable only): -65°F to 275°F (-54°C to 135°C)
- Temperature range for tamper-evident polyester labels (Laser printable only): -40°F to 302°F (-40°C to 150°C)
- Temperature range for polyolefin labels: -40°F to 180°F (-40°C to 82°C)



Part Number	Color	Materials	Width		Height		Labels Per Row	Labels Per Sheet	Labels Per Pkg.
			In.	mm	In.	mm			
C038X038YJJ	White	Polyester	0.38	9.7	0.38	9.7	16	352	10000
C038X038YLJ	Yellow		0.38	9.7	0.38	9.7	16	352	
C050X044YJJ	White	Polyester	0.50	12.7	0.44	11.2	13	247	
C060X020YJJ			0.60	15.2	0.20	5.1	11	385	
C075X024AAL	Silver	Tamper-Evident Polyester	0.75	19.1	0.25	6.4	9	270	10000
C075X025YJJ	White	Polyester	0.75	19.1	0.25	6.4			
C075X025YLJ	Yellow		0.75	19.1	0.25	6.4			
C075X025YML	Silver		0.75	19.1	0.25	6.4			
C075X050YJJ	White	Polyester	0.75	19.1	0.50	12.7	9	153	10000
C080X020YJJ			0.80	20.3	0.20	5.1	8	280	
C100X025YJJ			1.00	25.4	0.25	6.4	7	210	10000
C100X038YJJ			1.00	25.4	0.38	9.7		140	5000
C100X050AAL	Silver	Tamper-Evident Polyester	1.00	25.4	0.50	12.7	7	119	10000
C100X050YJJ	White	Polyester	1.00	25.4	0.50	12.7			
C100X050YLJ	Yellow		1.00	25.4	0.50	12.7			5000
C100X050YML	Silver		1.00	25.4	0.50	12.7			10000
C100X075YJJ	White	Polyester	1.00	25.4	0.75	19.1	7	84	5000
C100X150YJJ			1.00	25.4	1.50	38.1	7	42	2500
C150X050YJJ			1.50	38.1	0.50	12.7	5	80	2500
C150X050YLJ	Yellow	Polyester	1.50	38.1	0.50	12.7			
C150X050YML	Silver		1.50	38.1	0.50	12.7			
C150X075YJJ	White	Polyester	1.50	38.1	0.75	19.1	5	60	2500
C160X020YJJ			1.60	40.6	0.20	5.1	4	140	5000
C200X050YJJ			2.00	50.8	0.50	12.7		64	1000
C200X100AAL	Silver	Tamper-Evident Polyester	2.00	50.8	1.00	25.4	4	28	1000
C200X100YJJ	White	Polyester	2.00	50.8	1.00	25.4			
C200X100YLJ	Yellow		2.00	50.8	1.00	25.4			
C200X125YJJ	White		2.00	50.8	1.25	31.8			
C275X125AAL	Silver	Tamper-Evident Polyester	2.75	69.9	1.25	31.8	6	18	1000
C275X125YJJ	White	Polyester	2.75	69.9	1.25	31.8			
C275X125YML	Silver		2.75	69.9	1.25	31.8			

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Laser/Ink Jet Component Labels (continued)

Part Number	Color	Materials	Width		Height		Labels Per Row	Labels Per Sheet	Labels Per Pkg.
			In.	mm	In.	mm			
C300X038YJJ	White	Polyester	3.00	76.2	0.38	9.7	2	40	1000
C300X100YJJ			3.00	76.2	1.00	25.4		18	
C300X200YJJ			3.00	76.2	2.00	50.8		8	500
C350X100YJJ	White	Polyester	3.50	88.9	1.00	25.4	2	20	1000
C400X100YJJ			4.00	101.6	1.00	25.4		20	
C400X200YJJ			4.00	101.6	2.00	50.8		10	
C400X400YJJ			4.00	101.6	4.00	101.6		4	
C788X050YJJ			7.88	200.2	0.50	12.7	1	16	400
C850X1100YJJ	White	Polyester	8.50	215.9	11.00	279.4	1	1	25
C850X1100YLJ	Yellow	Polyester	8.50	215.9	11.00	279.4		1	

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Notes

Order number of pieces required, in multiples of Standard Package Quantity.

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Pre-Printed and Write-On Markers

Panduit® offers a variety of pre-printed and write-on marker solutions in multiple formats to meet your specific requirements.

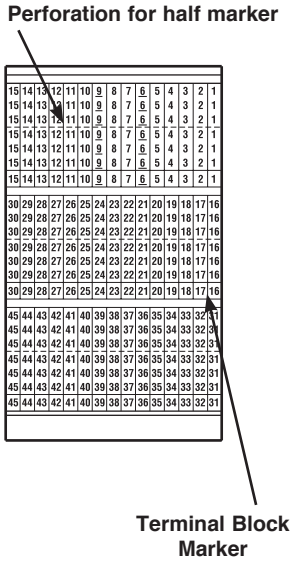
- **Marker books are a convenient pocket-sized method to identify many electrical and network components**
- **Marker cards are available in a variety of legends and combination packs**
- **Dispensers are available in both pre-printed and write-on formats for quick identification of wire/cable**
- **Clip-on markers provide a fast, convenient, non-adhesive method to identify wire/cable**

Panduit offers a variety of innovative books, cards, clip-ons and dispensers for a wide variety of wire/cable labeling needs.

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Pre-Printed Marker Books

- Convenient, pocket-sized book
- Markers are perforated and can be torn in half to mark both ends of conductors
- Terminal block markers are included to properly identify connectors
- Ten pages of markers per book
- Temperature Range: -40°F to 170°F (-40°C to 77°C)



Part Number	Legend	Total Markers Each Legend	Std. Pkg. Book(s)	Std. Ctn. Book(s)
PCMB-1	0 thru 9	45	1	10
PCMB-2	A thru Z, 0 thru 15, +, -, /	10		
PCMB-3	1 thru 45	10		
PCMB-4	1, 2, 3	150		
PCMB-5	A, B, C	150		
PCMB-6	T1, T2, T3	150		
PCMB-7	L1, L2, L3	150		
PCMB-8	1 thru 15 16 thru 90 A thru Z, +, -, /, 0	6 4 2		
PCMB-9	1, 2, 3, A, B, C L1, L2, L3, T1, T2, T3	45 30		
PCMB-11	1 thru 30	15		
PCMB-12	A thru Z + - Blank (write-on)	15 8 7 21		
PCMB-13	+, -, AC, DC POS, NEG, GND NEUT SPARE, Blank (write-on)	45 21 21 21		
PCMB-14	46 thru 90	10		
PCMB-15	0, +, - 1 thru 45	15 10		
PCMB-16	0 thru 33, A, B, C, +, -, L1, L2, L3, T1, T2, T3	10		
PCMB-25	0 thru 9 L1, L2, L3, T1, T2, T3	45 15		

Legend: Black Background: White
Marker sizes:
Full size marker – 0.22" x 1.38" (5.60mm x 34.90mm). Maximum wire O.D., 0.38" (9.50mm).
Half size marker – 0.22" x 0.69" (5.60mm x 17.40mm). Maximum wire O.D., 0.19" (4.70mm).
Terminal block marker – 0.22" x 0.25" (5.60mm x 6.30mm).

Order number of pieces required, in multiples of Standard Package Quantity.

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Blank Self-Laminating Write-On Cable Marker Books

- 10 pages of markers per book
- Clear section of marker over laminates and protects printed legend
- Markers have ink receptive area to allow handwritten legends



Part Number	Print-on Area (In.)	Width		Length		Markers Per Book	Std. Pkg. Book(s)	Std. Ctn. Book(s)
		In.	mm	In.	mm			
PSCB-12Y	0.62	0.50	12.7	1.50	38.1	180	1	10
PSCB-13Y	0.75	1.50	38.1	3.00	76.2	40		
PSCB-16Y	1.00	1.50	38.1	6.00	152.4	20		
PSCB-3Y	0.75	1.00	25.4	3.00	76.2	60		
PSCB-3YELY*	0.75	1.00	25.4	3.00	76.2	60		
PSCB-5Y	1.00	1.00	25.4	5.00	127.0	30		
PSCB-6Y	1.00	1.00	25.4	6.00	152.4	30		

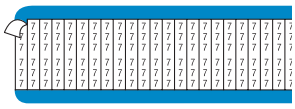
*Yellow
Can be clearly identified with Panduit® Permanent Marker Pens shown on page B1.49.

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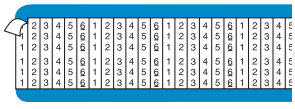
Pre-Printed Marker Cards PCM Type

- Marker cards printed in a variety of legends allows "kitting" for project builds
- Plastic liner provides easy removal of markers while protecting unused markers
- Temperature Range: -50°F to 170°F (-46°C to 77°C)





PCM-7



PCM-1-6

Part Number	Legend	Width		Length		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
		In.	mm	In.	mm			
PCM-0 thru PCM-99	0 thru 99	0.25	6.35	1.50	38.10	36	25	100
PCM-100 thru PCM-202	100 thru 202	0.36	9.14	1.50	38.10	25		
PCMH-0 thru PCMH-25	0 thru 25	0.25	6.35	0.75	19.1	72		
PCM-1-3	1 thru 3	0.25	6.35	1.50	38.10	36	25	100
PCM-1-4	1 thru 4	0.25	6.35	1.50	38.10			
PCM-1-5	1 thru 5	0.25	6.35	1.50	38.10			
PCM-1-6	1 thru 6	0.25	6.35	1.50	38.10			
PCM-1-8	1 thru 8	0.25	6.35	1.50	38.10			
PCM-1-9	1 thru 9	0.25	6.35	1.50	38.10			
PCM-0-9	0 thru 9	0.25	6.35	1.50	38.10			
PCM-1-10	1 thru 10	0.25	6.35	1.50	38.10			
PCM-1-12	1 thru 12	0.25	6.35	1.50	38.10			
PCM-1-16	1 thru 16	0.25	6.35	1.50	38.10			
PCM-1-18	1 thru 18	0.25	6.35	1.50	38.10			
PCM-19-36	19 thru 36	0.25	6.35	1.50	38.10	33	25	100
PCM-1-33	1 thru 33	0.27	6.91	1.50	38.10			
PCM-34-66	34 thru 66	0.27	6.91	1.50	38.10			
PCM-67-99	67 thru 99	0.27	6.91	1.50	38.10			
PCM-100-124	100 thru 124	0.36	9.14	1.50	38.10	25	25	100
PCM-125-149	125 thru 149	0.36	9.14	1.50	38.10			
PCM-150-174	150 thru 174	0.36	9.14	1.50	38.10			
PCM-175-199	175 thru 199	0.36	9.14	1.50	38.10			
PCM-200-224	200 thru 224	0.36	9.14	1.50	38.10			
PCM-225-249	225 thru 249	0.36	9.14	1.50	38.10			
PCM-250-274	250 thru 274	0.36	9.14	1.50	38.10			
PCM-275-299	275 thru 299	0.36	9.14	1.50	38.10			
PCM-300-324	300 thru 324	0.36	9.14	1.50	38.10			
PCM-325-349	325 thru 349	0.36	9.14	1.50	38.10			
PCM-350-374	350 thru 374	0.36	9.14	1.50	38.10			
PCM-375-399	375 thru 399	0.36	9.14	1.50	38.10			
PCM-400-424	400 thru 424	0.36	9.14	1.50	38.10			
PCM-425-449	425 thru 449	0.36	9.14	1.50	38.10			
PCM-450-474	450 thru 474	0.36	9.14	1.50	38.10			
PCM-475-499	475 thru 499	0.36	9.14	1.50	38.10			
PCM-500-524	500 thru 524	0.36	9.14	1.50	38.10			

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Pre-Printed Marker Cards PCM Type (continued)



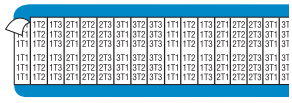
PCM-A1

Part Number	Legend	Width		Length		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
		In.	mm	In.	mm			
PCM-A thru **PCM-Z**	A thru Z	0.25	6.35	1.50	38.1	36	25	100
PCM-A-Z	A thru Z	0.25	6.35	1.50	38.1			
PCM-A-Z-0-9	A thru Z 0 thru 9	0.25	6.35	1.50	38.1			
PCM-A1 thru **PCM-A4**	A1 thru A4	0.25	6.35	1.50	38.1			
PCM-B1 thru **PCM-B5**	B1 thru B5	0.25	6.35	1.50	38.1			
PCM-C1 thru **PCM-C4**	C1 thru C4	0.25	6.35	1.50	38.1			
PCM-E1 thru **PCM-E3**	E1 thru E3	0.25	6.35	1.50	38.1			
PCM-F1 thru **PCM-F4**	F1 thru F4	0.25	6.35	1.50	38.1			
PCM-H1 thru **PCM-H5**	H1 thru H5	0.25	6.35	1.50	38.1			
PCM-L1 thru **PCM-L5**	L1 thru L5	0.25	6.35	1.50	38.1			
PCM-M1 thru **PCM-M2**	M1 thru M2	0.25	6.35	1.50	38.1			
PCM-P1 thru **PCM-P3**	P1 thru P3	0.25	6.35	1.50	38.1			
PCM-R1 thru **PCM-R5**	R1 thru R5	0.25	6.35	1.50	38.1			
PCM-S1 thru **PCM-S5**	S1 thru S5	0.25	6.35	1.50	38.1			
PCM-T1 thru **PCM-T9**	T1 thru T9	0.25	6.35	1.50	38.1			
PCM-X1 thru **PCM-X4**	X1 thru X4	0.25	6.35	1.50	38.1			

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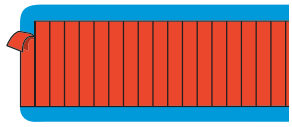
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Pre-Printed Marker Cards PCM Type (continued)



PCM-1T1

Part Number	Legend	Width		Length		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
		In.	mm	In.	mm			
PCM-1L1 thru PCM-1L3	1L1 thru 1L3	0.36	9.14	1.50	38.10	25	25	100
PCM-2L1 thru PCM-2L3	2L1 thru 2L3	0.36	9.14	1.50	38.10			
PCM-3L1 thru PCM-3L3	3L1 thru 3L3	0.36	9.14	1.50	38.10			
PCM-4L1 thru PCM-4L3	4L1 thru 4L3	0.36	9.14	1.50	38.10			
PCM-1T1 thru PCM-1T3	1T1 thru 1T3	0.36	9.14	1.50	38.10			
PCM-3T1 thru PCM-3T3	3T1 thru 3T3	0.36	9.14	1.50	38.10			



PCM-RED

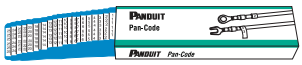
Part Number	Color	Width		Length		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
		In.	mm	In.	mm			
PCM-BLK	Black	0.25	6.4	1.50	38.1	36	25	100
PCM-BRN	Brown	0.25	6.4	1.50	38.1			
PCM-DBL	Dark Blue	0.25	6.4	1.50	38.1			
PCM-DGN	Dark Green	0.25	6.4	1.50	38.1			
PCM-GRY	Gray	0.25	6.4	1.50	38.1			
PCM-LBL	Light Blue	0.25	6.4	1.50	38.1			
PCM-LGN	Light Green	0.25	6.4	1.50	38.1			
PCM-ORN	Orange	0.25	6.4	1.50	38.1			
PCM-PNK	Pink	0.25	6.4	1.50	38.1			
PCM-PUR	Purple	0.25	6.4	1.50	38.1			
PCM-RED	Red	0.25	6.4	1.50	38.1			
PCM-TAN	Tan	0.25	6.4	1.50	38.1			
PCM-WHT	White	0.25	6.4	1.50	38.1			
PCM-YEL	Yellow	0.25	6.4	1.50	38.1			

Marker size:
Full size marker – 1.50" (38.10mm). Maximum wire O.D., 0.38" (9.50mm).

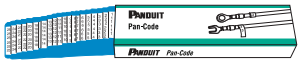
Order number of pieces required, in multiples of Standard Package Quantity.

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Wire Marker Card Number Combination Packs



Numbers



Letters

Part Number	Legend	Cards Per Legend	Markers Per Card	Std. Pkg. Qty.	Std. Ctn. Qty.
PCMCP-1-25*	1 thru 25	1 each	36	1	4
PCMCP-26-50*	26 thru 50	1 each			
PCMCP-51-75*	51 thru 75	1 each			
PCMCP-76-100*	76 thru 99 100	1 each	36 25		
PCMCP-101-125*	101 thru 125	1 each	25		
PCMCP-126-150*	126 thru 150	1 each			
PCMCP-A-Z**	A thru Z	1 each	36		

Marker size:
Full size marker – 1.50" (38.10mm). Maximum wire O.D. 0.38" (9.50mm).
*One card each number, 25 cards per package.
**One card each letter, 26 cards per package.

Pre-Printed Marker Cards PPM Type

- Choose from the many legends available in general purpose vinyl cloth, or from special materials available to meet a variety of application environments
- All markers are offered in full size 1.50" (38.1mm) long for wire outside diameter up to 0.38" (9.5mm); half size markers for wire outside diameter up to 0.19" (4.7mm)
- Each marker on card has a different legend
- Temperature Range: -40°F to 275°F (-40°C to 135°C)



PPM-7



PPM-1-33



PPM-A

Part Number	Legend	Width		Length		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
		In.	mm	In.	mm			
PPM-0 thru PPM-25	0 thru 25	0.25	6.35	1.50	38.10	36	25	100
PPM-1-33	1 thru 33	0.27	6.91	1.50	38.10	33		
PPM-A thru PPM-C	A thru C	0.25	6.35	1.50	38.10	36		

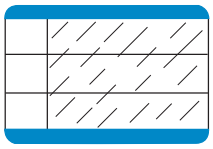
Legend: Black Background: White
Marker size:
1.50" (38.10mm). Maximum wire O.D., 0.38" (9.50mm).

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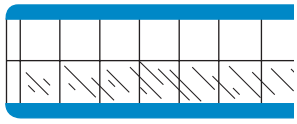
Self-Laminating Write-On Marker Cards

- Clear section of marker overlaminates and protects write-on legend
- Markers have ink receptive area to allow hand-written legends

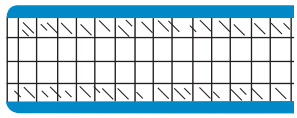




Type PSCC



Type PSWM



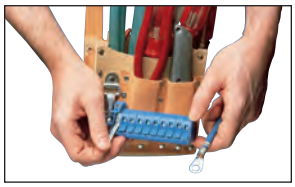
Type PSWMH

Part Number	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Markers Per Card	Std. Pkg. Card(s)	Std. Ctn. Card(s)
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm			
PSCC-3Y	1.00	25.40	3.00	76.20	0.75	19.05	0.240	6.1	0.72	18.2	3	25	100
PSCC-5Y	1.00	25.40	5.00	127.00	1.00	25.40	0.320	8.1	1.27	32.3	3		
PSWM-375Y	0.38	9.53	1.50	38.05	0.75	19.05	0.240	6.1	0.24	6.1	25		
PSWM-750Y	0.75	19.05	1.50	38.05	0.75	19.05	0.240	6.1	0.24	6.1	12		
PSWM-1500Y	1.50	38.05	1.50	38.05	0.75	19.05	0.240	6.1	0.24	6.1	6		
PSWMH-375Y	0.38	9.53	0.75	19.05	0.38	9.53	0.120	3.1	0.12	3.0	50		
PSWMH-750Y	0.75	19.05	0.75	19.05	0.38	9.53	0.120	3.1	0.12	3.0	24		

Can be clearly identified wih Panduit Permanent Marker Pens shown on page B1.49.

Pre-Printed Marker Tape Dispenser

- Flexible polyester marker tape conforms tightly to wires/cables
- Dispenser allows marker tape to be cut to the exact length required for marking any size wire/cable
- Durable plastic dispenser can be attached to tool belt for industrial use
- Temperature Range: -40°F to 250°F (-40°C to 121°C)





Part Number	Part Description	Roll		Rolls Per Legend Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
		Ft.	m			
PMD	Empty dispenser.	—	—	—	1	10
PMD-0-9	Dispenser filled with one roll each legend 0 thru 9.	8.0	2.4	1		

Order number of pieces required, in multiples of Standard Package Quantity.

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Pre-Printed Marker Tape Refills



Part Number	Legend	Roll Length		Rolls Per Legend Per Pkg.	Std. Pkg. Roll(s)	Std. Ctn. Roll(s)
		Ft.	m			
PMDR-0-9 thru **PMDR-90-99**	0 thru 9 thru 90 thru 99	8.0	2.4	10	1	10
PMDR-0 thru **PMDR-9**	0 thru 9	8.0	2.4	10	10	100
PMDR-A thru **PMDR-Z**	A thru Z	8.0	2.4			
PMDR-L1 thru **PMDR-L3**	L1 thru L3	8.0	2.4			
PMDR-T1 thru **PMDR-T3**	T1 thru T3	8.0	2.4			
PMDR-GRS	Ground symbol	8.0	2.4	10	10	100
PMDR-MIN	Minus symbol	8.0	2.4			
PMDR-PLS	Plus symbol	8.0	2.4			
PMDR-BLK	Black	8.0	2.4			
PMDR-BL	Light Blue	8.0	2.4			
PMDR-BRN	Brown	8.0	2.4			
PMDR-GRN	Light Green	8.0	2.4			
PMDR-GRY	Gray	8.0	2.4			
PMDR-ORN	Orange	8.0	2.4			
PMDR-PUR	Purple	8.0	2.4			
PMDR-RED	Red	8.0	2.4			
PMDR-WHT	White	8.0	2.4			
PMDR-YEL	Yellow	8.0	2.4			

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Self-Laminating Wire Marker Dispenser

- Self-laminating labels are provided in handy dispenser which protects markers when not in use
- Clear section of marker overlaminates and protects write-on legend
- Quick, easy to use for smaller installations and maintenance
- Temperature Range: -40°F to 150°F (-40°C to 66°C)



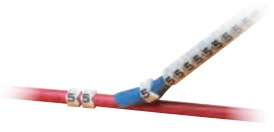
Part Number	Part Description	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
Dispenser Kit													
S100X125VARY	(1) Dispenser. (1) Roll, white write-on, vinyl label, 200/roll. (1) PFX-0 pen.	1.00	25.40	1.25	31.75	0.38	9.65	0.12	3.07	0.28	7.03	1	10
S100X225VARY	(1) Dispenser. (1) Roll, white write-on, vinyl label, 100/roll. (1) PFX-0 pen.	1.00	25.40	2.25	57.15	0.75	19.05	0.24	6.06	0.48	12.13		
Refill Rolls													
S100X125VAFY	Replacement roll. White write-on, vinyl label, 200/roll.	1.00	25.40	1.25	31.75	0.38	9.65	0.12	3.07	0.28	7.03	1	10
S100X225VAFY	Replacement roll. White write-on, vinyl label 100/roll.	1.00	25.40	2.25	57.15	0.75	19.05	0.24	6.06	0.48	12.13		

Can be clearly identified with Panduit permanent marking pens shown on page B1.49.

Pre-Printed Clip-On Wire Markers

- Non-adhesive markers grip tightly to wire/cable
- Markers supplied on application wand tool
- Chevron cut keeps multiple markers aligned
- Black legend is embossed into wire marker clip
- Temperature Range: -22°F to 194°F (-30°C to 90°C)





Part Number	Legend	No. of Markers Per Wand	Markers Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
Wire/Cable Diameter 0.08" – 0.10" (2.00mm – 2.50mm)					
PCA07-A thru **PCA07-Z**	A thru Z	30	300	1	10
PCA07-A-J	A-J				
PCA07-K-T	K-T				
PCA07-U-Z	U-Z				
PCA07-0 thru **PCA07-9**	0 thru 9				
PCA07-0-9	0-9				
PCA07-MIN	—				
PCA07-PLS	+				

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Pre-Printed Clip-On Wire Markers (continued)

Part Number	Legend	No. of Markers Per Wand	Markers Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
Wire/Cable Diameter 0.11" – 0.13" (2.80mm – 3.30mm)					
PCA11-A thru **PCA11-Z**	A thru Z	30	300	1	10
PCA11-A-J	A-J				
PCA11-K-T	K-T				
PCA11-U-Z	U-Z				
PCA11-0 thru **PCA11-9**	0 thru 9				
PCA11-0-9	0-9				
PCA11-MIN	—				
PCA11-PLS	+				
Wire/Cable Diameter 0.13" – 0.15" (3.30mm – 3.80mm)					
PCA13-A thru **PCA13-Z**	A thru Z	30	300	1	10
PCA13-A-J	A-J				
PCA13-K-T	K-T				
PCA13-U-Z	U-Z				
PCA13-0 thru **PCA13-9**	0 thru 9				
PCA13-0-9	0-9				
PCA13-MIN	—				
PCA13-PLS	+				
Wire/Cable Diameter 0.19" – 0.23" (4.80mm – 5.80mm)					
PCA18-A thru **PCA18-Z**	A thru Z	30	300	1	10
PCA18-A-J	A-J				
PCA18-K-T	K-T				
PCA18-U-Z	U-Z				
PCA18-0 thru **PCA18-9**	0 thru 9				
PCA18-0-9	0-9				
PCA18-MIN	—				
PCA18-PLS	+				
Wire/Cable Diameter 0.23" – 0.37" (5.80mm – 9.40mm)					
PCA23-A thru **PCA23-Z**	A thru Z	20	60	1	10
PCA23-A-D	A-D	20	80	1	10
PCA23-E-H	E-H				
PCA23-I-L	I-L				
PCA23-M-P	M-P				
PCA23-Q-T	Q-T				
PCA23-U-X	U-X				
PCA23-Y-Z	Y-Z, +, -				
PCA23-0 thru **PCA23-9**	0 thru 9	20	60	1	10
PCA23-0-3	0-3	20	80	1	10
PCA23-4-7	4-7				
PCA23-8-9	8, 9, +, -				
PCA23-MIN	—	20	60	1	10
PCA23-PLS	+				

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Notes

Order number of pieces required, in multiples of Standard Package Quantity.

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Permanent Identification

Panduit® offers the widest range of permanent identification solutions in the industry to withstand the test of time and provide legibility in harsh environments. Safe, quick, and easy to install, Panduit permanent identification solutions include stainless steel and aluminum marker plates, tags, marking tools and ties to deliver improved productivity and workplace safety.

- **Factory Custom Marking Service creates embossed or laser etched metal plates, tags, and ties to speed installation time and reduce labor costs**
- **Portable on-site marking tools for quick and easy identification on demand**
- **Large identification selection delivers maximum design flexibility to match your specific application requirements**
- **Optimized for easy use with Panduit self-locking stainless steel and aluminum ties; for details, refer to Pan-Steel® System Section B3**

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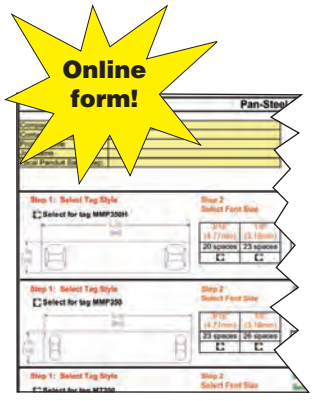
Panduit Factory Custom Marking Service

Panduit® factory custom marking service simplifies identification with high quality, made-to-order custom embossed marker plates and tags or laser etched cable ties, marker plates, and tags. Panduit offers rapid direct shipment with fast turn around on custom marking orders worldwide. Work with Panduit to create an effectively identified workplace.

EMBOSSING SERVICE



- Used on rectangular metal marker plates and tags which are a maximum of 0.020 inches (0.5mm) thick and minimum 0.38 inches (10mm) width
- Excellent for applications that are exposed to dirt and paint
- Upper case “raised” character
- Alphanumeric and sequential numbering



To select and order custom laser and embossed marker plates and tags:

Use on-line order form GA2-0218

www.panduit.com/custom to select the proper marker plate or tag for your application. Email order form to your Authorized Panduit Distributor for order placement or contact Panduit Customer Service for assistance.

LASER MARKING SERVICE



- Used on metal marker plates, tags, and cable ties
- BOLD block letters
- Upper and lower case character capability
- Ability to create text and graphics
- Alphanumeric and sequential numbering
- Laser is not an option on aluminum marker plates or tags

Character Sizes Available:

1/8 inches (3.18mm) – For high character volume tags
3/16 inches (4.77mm) – The most common size



Panduit offers a full line of labeling products, software and printers.

See pages E1.1 – E2.29.



Panduit permanent identification products are optimized for easy use with Panduit self-locking stainless steel and aluminum ties. For details, refer to Pan-Steel® System Section B3.

Order number of pieces required, in multiples of Standard Package Quantity.

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Stainless Steel and Brass Marker Plates and Tags

- Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments
- Designed for use with Panduit® Pan-Steel® Stainless Steel Cable Ties for fast installation at lowest installed cost
- All marker plates/tags can be embossed or laser etched with Panduit Factory Custom Marking Service
- For on-site custom marking see page E4.2
- Designated plates feature easy feed design with a raised slot to simplify cable tie installation and improve productivity
- Temperature range:
  Stainless Steel Marker Plates, Tags, and Cable Ties:
  -112°F to 1000°F (-80°C to 538°C)
- Aluminum Marker Plates and Cable Ties:
  -112°F to 212°F (-80°C to 100°C)
- Brass Tags:
  -112°F to 302°F (-80°C to 150°C)



Style A



Style B

Style C



Style D



Style E



Style F



Style G



Style H

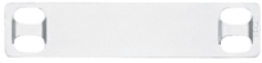
Part Number	Style	Material	Length/ Diameter		Width/ Diameter		Thickness		Used with Pan-Steel Cable Ties**	For Use With			Std. Pkg. Qty.^	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm		MIM	PES197	PES400		
MMP172W38-M	A	304 Stainless Steel	1.72	44.0	0.38	10.0	0.010	0.25	MLT-S	✓		✓	1000	4000
MMP172-C	B		1.72	44.0	0.75	19.0	0.010	0.25	MLT-S	✓			100	1000
MMP172-M	B		1.72	44.0	0.75	19.0	0.010	0.25	MLT-S	✓		✓	1000	4000
MMP337W53-MAL-4	C	Aluminum	3.37	85.6	2.12	53.8	0.016	0.41	MLT-S	✓		✓	1000	4000
MMP337W71-MAL-3	D		3.37	85.6	2.12	53.8	0.016	0.41	MLT-S	✓		✓		
MMP350W38-C	E	304 Stainless Steel	3.50	89.0	0.38	10.0	0.010	0.25	MLT-S	✓			100	1000
MMP350W38-C316	E	316 Stainless Steel	3.50	89.0	0.38	10.0	0.010	0.25	MLT-S	✓				
MMP350W38-M	E	304 Stainless Steel	3.50	89.0	0.38	10.0	0.010	0.25	MLT-S	✓	✓	✓	1000	4000
MMP350W38-M316	E	316 Stainless Steel	3.50	89.0	0.38	10.0	0.010	0.25	MLT-S	✓	✓	✓		
MMP350HW54-MAL	F	Aluminum	3.50	89.0	0.54	13.7	0.012	0.30	MLT-H	✓	✓	✓		
MMP350-C	G	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-S	✓			100	1000
MMP350-C316	G	316 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-S	✓				
MMP350-M	G	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-S	✓	✓	✓	1000	4000
MMP350-M316	G	316 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-S	✓	✓	✓		
MMP350DB-C	H	304 Stainless Steel	3.50	89.0	1.12	29.0	0.015	0.38	MLT-H	✓			100	1000
MMP350DB-C316	H	316 Stainless Steel	3.50	89.0	1.12	29.0	0.015	0.38	MLT-H	✓				

**See pages B3.5 – B3.6 for Pan-Steel® Stainless Steel Cable Ties.
^Order number of pieces required, in multiples of Standard Package Quantity.

Continued on next page

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Stainless Steel and Brass Marker Plates and Tags (continued)



Style I



Style J



Style K



Style L



Style M



Style N



Style O



Style P



Style Q

Part Number	Style	Material	Length/ Diameter		Width/ Diameter		Thickness		Used with Pan-Steel Cable Ties**	For Use With			Std. Pkg. Qty.^	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm		MIM	PES197	PES400		
MMP350H-C	I	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓			100	1000
MMP350H-C316	I	316 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓				
MMP350H-CAL	I	Aluminum	3.50	89.0	0.75	19.0	0.012	0.30	MLT-H	✓				
MMP350H-M	I	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓	✓	✓	1000	4000
MMP350H-M316	I	316 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓	✓	✓		
MMP350H-MAL	I	Aluminum	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓	✓	✓		
MMP350W17-Q-M	J	304 Stainless Steel	3.50	89.0	1.73	44.0	0.015	0.38	MLT-S	✓		✓	1000	4000
MT125S-Q	K		1.25	32.0	1.25	32.0	0.035	0.89	MLT-S	✓			25	250
MT172W38-C	L		1.72	44.0	0.38	10.0	0.010	0.25	MLT-S	✓			100	1000
MT172W38-M	L		1.72	44.0	0.38	10.0	0.010	0.25	MLT-H	✓		✓	1000	4000
MT172-C	M		1.72	44.0	0.75	19.0	0.010	0.25	MLT-S	✓			100	1000
MT172-C316	M	316 Stainless Steel	1.72	44.0	0.75	19.0	0.010	0.25	MLT-S	✓			100	1000
MT172-M	M	304 Stainless Steel	1.72	44.0	0.75	19.0	0.010	0.25	MLT-S	✓		✓	1000	4000
MT206W119A-Q	N		2.06	52.0	1.19	30.0	0.015	0.38	MLT-H	✓			25	250
MT350W38-M316	O	316 Stainless Steel	3.50	89.0	0.38	10.0	0.010	0.25	MLT-S	✓		✓	1000	4000
MT350-C	P	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓			100	1000
MT350-C316	P	316 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓				
MT350-M	P	304 Stainless Steel	3.50	89.0	0.75	19.0	0.010	0.25	MLT-H	✓		✓	1000	4000
MT350W17-Q	Q		3.50	89.0	1.73	44.0	0.015	0.38	MLT-S	✓			25	250
MT350W17-D-4HL	Q		3.50	89.0	1.73	44.0	0.015	0.38	MLT-S	✓		✓	1000	4000
MT350W17-Q-M	Q		3.50	89.0	1.73	44.0	0.015	0.38	MLT-S	✓		✓		

**See pages B3.5 – B3.6 for Pan-Steel® Stainless Steel Cable Ties.
^Order number of pieces required, in multiples of Standard Package Quantity.

Continued on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Stainless Steel and Brass Marker Plates and Tags (continued)



Style R

Part Number	Style	Material	Length/ Diameter		Width/ Diameter		Thickness		Used with Pan-Steel Cable Ties**	For Use With			Std. Pkg. Qty.^	Std. Ctn. Qty.
			In.	mm	In.	mm	In.	mm		MIM	PES197	PES400		
Circular Tags														
MT1D-Q	R	304 Stainless Steel	-	-	1.00	25.0	0.035	0.89	MLT-H	✓			25	250
MTB1D-Q	R	Brass	-	-	1.00	25.0	0.040	1.02	MLT-S	✓				
MT150D-Q	R	304 Stainless Steel	-	-	1.50	38.0	0.035	0.89	MLT-S	✓				
MTB150D-Q	R	Brass	-	-	1.50	38.0	0.040	1.02	MLT-S	✓				
MT213D-Q	R	304 Stainless Steel	-	-	2.13	54.0	0.015	0.38	MLT-H	✓				
MTB213D-Q	R	Brass	-	-	2.13	54.0	0.015	0.38	MLT-S	✓				

**See pages B3.5 – B3.6 for Pan-Steel® Stainless Steel Cable Ties.
^Order number of pieces required, in multiples of Standard Package Quantity.

Metal Embossing Hand Tool and Tape System

- Multi-functional cutting die design creates embossed marker plates with raised cable tie slot in one step instead of three, for faster installation
- Lightweight, compact and portable, allows user to create custom length identification on demand at remote job sites
- Embosses 3/16" characters onto stainless steel or aluminum tape, to improve visibility in applications that are subjected to dirt or paint



Part Number	Part Description	Std. Ctn. Qty.
Tool Kit		
MEHT187	Includes tool, additional marking wheel, carrying case, one roll each META (aluminum) and METS (stainless steel) tape. Characters included: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 / ( )	1
TM26319B01	Embossing Wheel Replacement Kit - White Wheel	
TM26971B01	Embossing Wheel Replacement Kit - Gray Wheel	
Tape		
META-X	0.50" x 16' (12.7mm x 4.9m) aluminum tape*.	10
METS3-X	0.50" x 21' (12.7mm x 6.4m) 316 grade stainless steel tape.	
METS4-X	0.50" x 21' (12.7mm x 6.4m) 304 grade stainless steel tape.	

*Aluminum ties are recommended for use with aluminum tape to prevent galvanic reaction (corrosion that can occur between stainless steel and aluminum in certain environments).

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Metal Indenting Machine

- Provides quick, easy, and permanent identification with Panduit® Stainless Steel and Aluminum marker plates, tags, and cable ties
- Automatic table indexing advances material forward for convenience and improved productivity
- New, improved design features aluminum base and durable construction



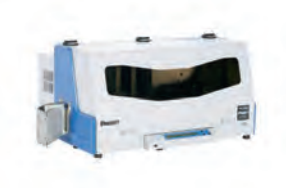


Part Number	Part Description	Std. Ctn. Qty.
Indenting Machine		
MIM094	Indenting machine with 3/32" (2.38mm) character wheel.	1
MIM125	Indenting machine with 1/8" (3.18mm) character wheel.	
MIM187	Indenting machine with 3/16" (4.77mm) character wheel.	
Interchangeable Wheel Kits		
MIW094	3/32" (2.38mm) character wheel kit (wheel and indexing gear).	1
MIW125	1/8" (3.18mm) character wheel kit (wheel and indexing gear).	
MIW187	3/16" (4.77mm) character wheel kit (wheel and indexing gear).	

NEW!

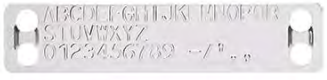
Panduit Embossing System*

- To deliver a permanent identification solution on-site and on demand when it's needed
- Creates raised characters on stainless steel and aluminum marker plates, to deliver maximum visibility for medium to high volume applications that are exposed to dirt and paint
- Fast embossing speed of up to 300 plates per hour
- Includes both 3mm and 5mm characters
- Compatible with numerous sizes and styles of metal plates and tags
- Input hopper allows for easy stacking of plates, saving time and money
- Output hopper keeps plates neatly stacked in the order that they are embossed
- Includes Easy-Mark Plus™ Labeling Software
- Easy-Mark Plus™ Labeling Software allows for a quick print legend and exact preview, saving time and reducing print costs

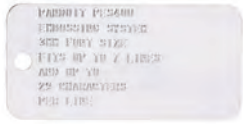


Part Number	Part Description	Std. Pkg. Qty.
PES400	Panduit Embossing System, .188" (5mm) and .118" (3mm) characters, 35.8" x 23.6" x 16.5", 154 lb (75 kg), 100 to 240 VAC, 50/60 Hz.	1

Characters include: ABCD...Z, 0123...9, @ # % & * ( ) - + : , . / '
*For use with 1000 pack marker plates only.



5mm font on MMP350-M



3mm font on MT350W17-Q-M

Order number of pieces required, in multiples of Standard Package Quantity.

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Industrial Safety Solutions

From the front gate to the back of the facility Panduit provides durable, easy-to-use solutions to create a safer workplace. These facility identification and safety products reduce the risk to workers and businesses through greater awareness and communication of workplace hazards and assist with effective compliance of OSHA Safety Regulations. The Facility Identification solutions compliment Panduit's broad offering of engineered solutions for electrical and industrial environments.

- **Safety signs and labels offered in a variety of materials, colors, sizes, and legends**
- **Voltage markers in adhesive and snap-on style**
- **Utility tapes in a variety of materials, colors, sizes, and legends**
- **Letters and numbers in a variety of materials and sizes**
- **Tags in a variety of materials, colors, sizes, and legends**
- **Training manuals and videos to help train employees on the requirements of lockout/tagout**
- **Extensive line of universal, high quality devices to lockout a variety of energy sources**
- **Lockout/tagout kits and stations that offer a convenient method to store and contain lockout devices, tags, and padlocks**
- **High quality, durable, secure padlocks in a variety of styles, colors, and keying configurations that ensure safety and security**
- **Extensive line of safety identification products that include barriers, barricades, floor marking signs and tapes, and traffic and motivational signs**







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VeriSafe™ Absence of Voltage Testers

The Safe Way to Verify the Absence of Voltage.



When servicing electrical equipment, workers must comply with safety regulations that require a voltage verification test to validate the absence of voltage. This process includes a number of stages that can be complex and time-consuming when using hand-held portable test instruments.

The patent-pending VeriSafe™ Absence of Voltage Tester from Panduit simplifies this process by automating the voltage verification process. Once installed, a simple push of a button enables qualified electrical workers to verify the absence of voltage and see an active indication when the absence of voltage is confirmed. This provides a new and innovative way to safely, reliably, and efficiently verify the absence of voltage before accessing potentially dangerous electrical equipment.

System Components



1 Indicator Module
- 30mm knockout, mount on exterior of enclosure
- Operate and maintain without exposure to electrical hazards
- Instruction label with operating instructions
- VS-AVT2 will have a blue faceplate while VS-AVT will have a yellow faceplate

2 AVT System Cable
- Connects isolation module to indicator module
- 600 V cable available in multiple lengths for easy installation
- Replaceable with connectors on each end
- Replaceable with additional lengths
- Locking connectors on both ends
- Right angle connector at indicator module saves space

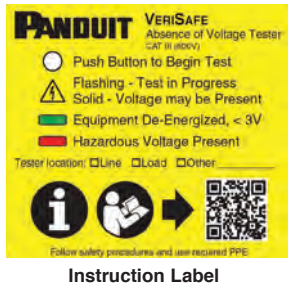
3 Isolation Module
- Prevents hazardous voltage from reaching door
- Universal mounting (DIN rail or surface tabs)
- Output contacts provide ability to create alarms or communicate with other systems

4 Sensor Leads
- Can be installed on line or load side of electrical disconnect
- Two leads per phase; must be physically separated from each other
- Optimized for use with the VeriSafe™ Insulation Piercing Connector

Simple Battery Replacement
- Long-life industrial battery
- Replaceable from outside the enclosure
- Interior battery compartment is fingersafe (IP20)
- No tools required



1



Instruction Label



Shown: VS-AVT



Shown: Insulation Piercing Connectors

Order number of pieces required, in multiples of Standard Package Quantity.

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VeriSafe™ Absence of Voltage Tester (AVT)



Shown: VS-AVT

Part No.	Description
VS-AVT-C02-L03	VeriSafe™ Absence of Voltage Tester with 2 ft. system cable, 3 ft. sensor leads
VS-AVT-C08-L10	VeriSafe™ Absence of Voltage Tester with 8 ft. system cable, 10 ft. sensor leads
Equipment Retrofit Kits	
VS-AVT-RKP1	Complete kit to retrofit equipment with VeriSafe™ Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe™ Insulation Piercing Connection Kit 14-6 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card
VS-AVT-RKP2	Complete kit to retrofit equipment with VeriSafe™ Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe™ Insulation Piercing Connection Kit 4 - 3/0 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card
Accessories	
VS-AVT-CABLE-02	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 2 ft.
VS-AVT-CABLE-04	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 4 ft.
VS-AVT-CABLE-08	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 8 ft.
VS-AVT-CABLE-16	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 16 ft.
VS-AVT-CABLE-20	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 20 ft.
VS-AVT-CABLE-30	AVT System Cable for use with VeriSafe™ AVT device. Cable length is 30 ft.
VS-AVT-IL-LINE	Instruction Label for Verisafe™ AVT Device with Line Side Checked
VS-AVT-IL-LOAD	Instruction Label for Verisafe™ AVT Device with Line Side Checked
VS-AVT-DL	Diagnostic Label for Verisafe™ AVT Device

VeriSafe™ Hazardous Locations Absence of Voltage Tester (AVT)



Shown: VS-AVT2

- Services other environments with Hazardous Location offering covering Class 1 Division 2 and Class 1 Zone 2 environments.
- Reduces the risk of exposure to electrical hazards which improves worker safety.
- Continues to provide a simplified process for easier compliance when used as part of the lockout/tagout process described in NFPA 70E.

Part No.	Description
VS-AVT2-C02-L03	VeriSafe™ Absence of Voltage Tester for Class 1 Division 2 hazardous locations - 2 ft. system cable, 3 ft. sensor leads
VS-AVT2-C08-L10	VeriSafe™ Absence of Voltage Tester for Class 1 Division 2 hazardous locations - 8 ft. system cable, 10 ft. sensor leads

VeriSafe™ Insulation Piercing Connectors



- The VeriSafe™ Insulation Piercing Connector provides a fast, secure, and reliable way to terminate AVT sensor leads.
- The compact connector design accommodates up to two taps in a single housing that fully insulates both connections.
- The patent pending connector allows taps to be made without compromising the integrity of conductors and includes integrated strain relief.
- Installation is fast and easy without the need to strip wires.
- Ideal for new and retrofit applications, connections can be made without modifying existing conductor runs.

Part No.	Description
VS-CKP14-6	VeriSafe™ Insulation Piercing Connection Kit for Tapping 14 to 6 AWG conductors. Kit includes 3 connectors for installment of 1 AVT
VS-CKP4-000	VeriSafe™ Insulation Connection Kit for Tapping 4 to 3/0 AWG conductors. Kit includes 3 connectors for installment of 1 AVT
Equipment Retrofit Kits	
VS-AVT-RKP1	Complete kit to retrofit equipment with VeriSafe™ Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe™ Insulation Piercing Connection Kit 14-6 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card
VS-AVT-RKP2	Complete kit to retrofit equipment with VeriSafe™ Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe™ Insulation Piercing Connection Kit 4 - 3/0 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card

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Stock Safety Signs & Labels

Our stock signs and labels are ready to ship … today. Safely made in the USA!

ANSI STYLE ▼



OSHA STYLE ▼

ANSI ISO ▲

DANGER RED	WARNING ORANGE	CAUTION YELLOW	NOTICE BLUE	SAFETY FIRST GREEN
Indicates a hazardous situation that, if not avoided, **will** result in **death** or **serious injury**.	Indicates a hazardous situation that, if not avoided, **could** result in **death** or **serious injury**.	Indicates a hazardous situation that, if not avoided, **could** result in **minor** or **moderate injury**.	Indicates information considered important but not hazard-related.	Indicates specific safety-related instructions or procedures that are related to safe work practices.

OSHA	OSHA	OSHA	OSHA	OSHA
DANGER	WARNING	CAUTION	NOTICE	SAFETY FIRST
ANSI	ANSI	ANSI	ANSI	ANSI
DANGER	WARNING	CAUTION	NOTICE	SAFETY FIRST
DANGER	WARNING	CAUTION		

OSHA 29 CFR § 1910.145

Traditional OSHA-style signs and labels are the most widely recognized design format in industry. They use upper case lettering, and the message is generally centered underneath the header. This standardized sign format continues today to be the choice for selecting messages in safety signs.

ANSI Z535

Newer ANSI-style signs and labels are gaining in popularity and are recognized by OSHA as an acceptable safety notification device. Signs often include a visual alert symbol (triangle with an exclamation point!), a large symbol, and left-justified upper and lower case message lettering. These signs are clearly visible and provide concise safety alert messages.

Order number of pieces required, in multiples of Standard Package Quantity.

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Choose the Right Stock Material

Your facility signs are used indoors and outdoors, in ordinary conditions or extreme. We offer materials to match your needs. Select a material based upon your application requirements to ensure your message is conveyed clearly and effectively.

Every sign we make is American-made and skillfully crafted with quality in mind. Our stock signs are available in a variety of materials and printed with technologically advanced inks. With many materials featuring no-hassle extended guarantees, your printed sign will continue to notify and alert employees for years. **For additional information, please give us a call.**

What is my sign printed on and will it last?

Along with looking great, your sign should last as long as it's needed. The material depends on where your sign is going to be displayed. For indoor, choose light-duty materials; for harsh environments and long-term/extended outdoor exposure, choose from our selection of durable materials listed below.

AdhesiveVinyl (PVS)

Stick with adhesive vinyl for light-duty applications. The ideal choice for a variety of indoor, and sheltered outdoor, marking needs. Easily mounts to all curved areas such as pipes, poles and secondary containers.

Material Features

- 0.004" thick printed matte surface
- Permanent acrylic adhesive
- Moisture-resistant
- Service temperature range: -20° to 176°F
- Square corners and scored backing for quick peel-off and application
- Durability: 2 years outdoors

Applications

- Adheres to most surfaces
- Indoor usage
- Light-duty application
- Sheltered outdoor locations

Printed Message

Peel-off liner



0.004" Vinyl

Polyethylene Plastic (PRS)

Appropriate for everyday medium-duty marking needs. Semi-flexible, economical design with 50% recycled content is ideal for indoor and sheltered outdoor environments.

Material Features

- 0.055" thick with good impact resistance and surface image with non-glare finish
- Manufactured with 50% recycled plastic and is recyclable
- Ideal for flat surfaces, with enough flex to mount on slightly curved areas
- Contains UV inhibitors
- Service temperature range: -90° to 168°F
- Rounded corners and 0.1875" mounting holes
- Durability: **2 years outdoors**

Applications

- Indoor usage
- Medium-duty marking needs
- Sheltered outdoor locations
- Ideal for low-cost informational usage

Printed Message



0.055" Thick Polyethylene



Polyester Laminated Vinyl (PLVS)

Dual-layered polyester laminated vinyl delivers exceptional flexibility and performance. Durability, even in the toughest indoor and outdoor conditions.

Material Features

- 0.006" thick poly-composite with UV protective coating
- Sub-surface image is protected by high-gloss polyester film from water, chemicals and abrasion
- Permanent acrylic adhesive backing
- Service temperature range: -20° to 176°F
- Round corners without holes; scored backing for quick peel-off and application
- Durability: **5 years outdoors**

Applications

- Indoor and outdoor usage
- Adheres to most surfaces
- Excellent in harsh environments

Printed Message

Peel-Off Liner



0.006" Vinyl

Protective Coating

Aluminum (PAS)

Get the strength of metal, without the rust. Aluminum has superior abrasion and chemical resistance for indoor and outdoor environments.

Material Features

- Printed image on rigid 0.040" aluminum sheet
- UV protective coating
- Service temperature range: -40° to 250°F
- Withstands splashes and washdowns
- Endures outdoor environmental conditions
- Rounded corners and 0.1875" mounting holes on most sizes, will be adjusted for larger sizes
- Durability: **5 years outdoors**

Applications

- Indoor and outdoor usage
- Excellent for harsh environments
- Ideal for longer-term marking needs

Printed Message



Protective Coating
0.040" Thick Aluminum

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Admittance & Exit

Signs



7" x 10" 10" x 14"
D7001



7" x 10" 10" x 14"
D7002



14" x 10"
D4007



7" x 10" 10" x 14"
D7003



7" x 10" 10" x 14"
D7013



14" x 10"
D4140



14" x 10"
D5142



7" x 10" 10" x 14"
D7016



7" x 10" 10" x 14"
D7017



7" x 10" 10" x 14"
D7018



14" x 10"
D4147



7" x 10" 10" x 14"
D7019



7" x 10" 10" x 14"
D7020



14" x 10"
D4077



7" x 10" 10" x 14"
D7034



7" x 10" 10" x 14"
D7035



7" x 10" 10" x 14"
D7004



7" x 10" 10" x 14"
W7014



7" x 10" 10" x 14"
W7021



7" x 10" 10" x 14"
W7036



7" x 10" 10" x 14"
W7005



7" x 10" 10" x 14"
C7007



7" x 10" 10" x 14"
C7015



7" x 10" 10" x 14"
C7061



7" x 10" 10" x 14"
C7062



7" x 10" 10" x 14"
C7063



7" x 10" 10" x 14"
N7057



7" x 10" 10" x 14"
N7043



7" x 10" 10" x 14"
N7008



7" x 10" 10" x 14"
N7009



14" x 10"
N4802



7" x 10" 10" x 14"
N7010



7" x 10" 10" x 14"
N7064



7" x 10" 10" x 14"
N7065



7" x 10" 10" x 14"
N7044



7" x 10" 10" x 14"
N7045



7" x 10" 10" x 14"
N7046



7" x 10" 10" x 14"
N7047



7" x 10" 10" x 14"
N7066



14" x 10"
N4826



7" x 10" 10" x 14"
N7051



7" x 10" 10" x 14"
N7067

See **How to Order Signs** on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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7" x 10" 10" x 14"
N7048



7" x 10" 10" x 14"
N7058



14" x 10"
N5813



7" x 10" 10" x 14"
N7049



7" x 10" 10" x 14"
N7022



7" x 10" 10" x 14"
N7068



7" x 10" 10" x 14"
N7069



7" x 10" 10" x 14"
N7011



7" x 10" 10" x 14"
N7023



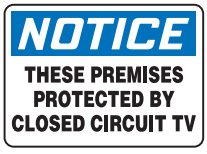
7" x 10" 10" x 14"
N7037



7" x 10" 10" x 14"
N7070



7" x 10" 10" x 14"
N7071



7" x 10" 10" x 14"
N7052



7" x 10" 10" x 14"
N7053



14" x 10"
N4813



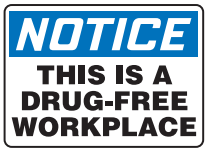
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N7054



7" x 10" 10" x 14"
N7072



7" x 10" 10" x 14"
N7073



7" x 10" 10" x 14"
N7059



7" x 10" 10" x 14"
N7074



7" x 10" 10" x 14"
N7055



7" x 10" 10" x 14"
N7056



14" x 10"
N4811



7" x 10" 10" x 14"
B7028



10" x 7" 14" x 10"
B7031



7" x 10" 10" x 14"
B7029



14" x 10"
B4511



7" x 10" 10" x 14"
B7030



7" x 10" 10" x 14"
B7032



7" x 10" 10" x 14"
B7033



7" x 10" 10" x 14"
B7040



14" x 10"
B4520



7" x 10" 10" x 14"
B7041



7" x 10" 10" x 14"
B7042



7" x 10" 10" x 14"
B7012



7" x 10" 10" x 14"
B7075

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	PVS	7" x 10"	0710
Polyester Laminated Vinyl (Each)	PLVS	10" x 14"	1014
Polyethylene Plastic (Each)	PRS	14" x 10"	1410
Aluminum (Each)	PAS		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **D7018**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0710D7018**



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Signs



7" x 10" 10" x 14"
B7078



7" x 10" 10" x 14"
B7077



10" x 14"
B3533



10" x 14"
B4535



10" x 14"
B4907



14" x 10"
B4908



7" x 10" 10" x 14"
B7076



7" x 10" 10" x 14"
B7081



7" x 10" 10" x 14"
B7024



7" x 10" 10" x 14"
B7025



7" x 10" 10" x 14"
B7080



10" x 14"
B4912



14" x 10"
B3513



7" x 10" 10" x 14"
B7026



7" x 10" 10" x 14"
B7027



7" x 10" 10" x 14"
B7039



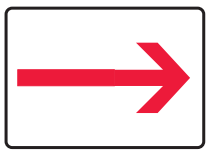
7" x 10" 10" x 14"
B7038



7" x 10" 10" x 14"
B7079



7" x 10" 10" x 14"
B7050


7" x 10" 10" x 14"
B7082

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	**PVS**	7" x 10"	**0710**
Polyester Laminated Vinyl (Each)	**PLVS**	10" x 14"	**1014**
Polyethylene Plastic (Each)	**PRS**		
Aluminum (Each)	**PAS**		

How to Order Signs:

1 Select Material Code: **PVS** **2** Select Size Code: **0710** **3** Select Label Sign Part Number: **B7078** 

4 Combine Codes in Specific Order for Complete Part Number: **PVS0710B7078**

Lighted UL LED Exit Signs

Light the way of egress routes with illuminated EXIT.

- Long-life, energy efficient, LED lamps, rated at 25+ years
- Ceiling, end, or surface mount
- Emergency style includes rechargeable battery back-up to keep sign lit for 1 1/2 hours during power failure
- Red, 6" letters with knock-out left and right arrows
- Hardwire connection to reliable electrical source required
- 120 or 277 field selectable inputs

Meets OSHA 29 CFR §1910.37

Thermoplastic Exit Signs

- Scratch- and corrosion-resistant plastic housing
- Measures 7 1/2" x 12 1/4" x 1 3/4"
- UL924 listed



Part No.	Description	UOM
PSSE001	Standard	Each
PSSE002	Emergency	

Steel Exit Signs

- Durable, 20-gauge, steel housing with white powder-coat finish
- Measures 7 1/2" 12" x 2 1/4"
- UL924 and ULC/ORD-C924-02 listed



Part No.	Description	UOM
PSSE003	Standard	Each
PSSE004	Emergency	

Order number of pieces required, in multiples of Standard Package Quantity.

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Glow-in-the-Dark UL Exit Signs



Normal lighting



Blackout

The Next Generation in Technology

UL glow exit signs store energy from virtually any artificial light source. When properly charged, UL glow signs will glow for over six hours in the event of a blackout. Low-profile, non-radioactive signs can be used for both high-level and low-level applications, and require no electrical hook-up.

- Recyclable
- Energy-saving
- Easy to install
- Maintenance free, 25+ year life

Meets The Following Standards:

- Meets NFPA Life Safety Code 101 and OSHA requirements
- Meets current Building Codes: IBC, ICBO, BOCA and SBCCI, NFPA 5000
- ICC ES report #ER-6040
- California State Fire Marshal listing #6200-1617; 100
- City of Los Angeles Research Report: RR 25531 (CSI #16530)
- Ontario Building Materials Evaluation Commission
- Authorization Report BMEC # 03-12-291

c UL us LISTED



Steel Case Style

- 50-ft. viewing distance
- Glow-in-the-dark letters on your choice of three background colors
- Photoluminescent panel is housed inside a durable steel casing
- "Punch-out" directional arrows included
- Surface, flag, or ceiling mount
- Sign size: 8 1/4"H x 15 1/4"W x 1/4"D
- Letter size: 7"H x 7/8" stroke

When ordering, specify case color:
Red – RD, Green – GN, or Black – BK.

Part No.	Description	UOM
PSSE007	Single-face	Each
PSSE010	Single-face w/mounting brackets	
PSSE013	Double-face w/mounting brackets	



Plastic Case Style

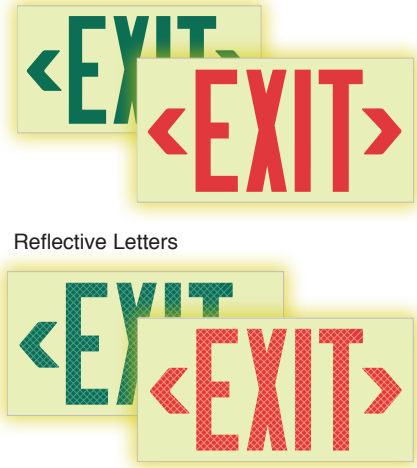
- 50-ft. viewing distance
- Choose glow-in-the-dark letters on your choice of three background colors
- Photoluminescent panel is housed inside a durable plastic casing
- "Punch-out" directional arrows included
- Surface, flag, or ceiling mount
- Mounting hardware included
- Sign size: 8 3/4"H x 15 3/8"W x 3/4"D
- Letter size: 7"H x 7/8" stroke

When ordering, specify case color:
Red – RD, Green – GN, or Black – BK.

Part No.	Description	UOM
PSSE020	Single-face	Each
PSSE023	Double-face	

Standard Letters

Reflective Letters



One-Dimensional Plate Style

- 50-ft. viewing distance
- Colored letters on glow-in-the-dark background with optional black plastic frame
- Choose standard or high visibility, reflective lettering in your choice of two colors
- Durable, impact-resistant plastic with 4 corner mounting holes
- "Punch-out" directional arrows included
- Wall mount only
- Sign size: 7 1/2"H x 13"W
- Letter size: 6"H x 13/16" stroke

When ordering, specify letter color:
Red – RD, or Green – GN.

Part No.	Description	UOM
PSSE016	Standard Letters	Each
PSSE018	Reflective Letters	

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Chemicals & Hazardous Materials

Signs



7" x 10" 10" x 14"
D7083



7" x 10" 10" x 14"
D7084



7" x 10" 10" x 14"
D7085



7" x 10" 10" x 14"
D7086



7" x 10" 10" x 14"
D7087



7" x 10" 10" x 14"
D7088



7" x 10" 10" x 14"
D7101



7" x 10" 10" x 14"
D7089



7" x 10" 10" x 14"
D7104



7" x 10" 10" x 14"
D7105



7" x 10" 10" x 14"
D7106



7" x 10" 10" x 14"
D7107



7" x 10" 10" x 14"
D7090



7" x 10" 10" x 14"
D7091



7" x 10" 10" x 14"
D7092



7" x 10" 10" x 14"
D7093



7" x 10" 10" x 14"
D7094



7" x 10" 10" x 14"
D7095



7" x 10" 10" x 14"
D7096



7" x 10" 10" x 14"
D7097



7" x 10" 10" x 14"
D7108



7" x 10" 10" x 14"
D7098



7" x 10" 10" x 14"
C7099



7" x 10" 10" x 14"
N7102



7" x 10" 10" x 14"
N7103



7" x 10" 10" x 14"
N7109



14" x 10"
B4524



14" x 10"
B4518



7" x 10" 10" x 14"
B7100



10" x 14"
D7345



10" x 14"
D7346

See **How to Order Signs** on next page

Labels



3 1/2" x 5"
D3026



3 1/2" x 5"
D3029



3 1/2" x 5"
D3296



3 1/2" x 5"
D3304



3 1/2" x 5"
C3686



3 1/2" x 5"
B3517



3 1/2" x 5"
B3548



3 1/2" x 5"
D7347

Available Materials	Codes	Available Size	Codes
Adhesive Vinyl (Pkg. of 5)	**PVS**	3 1/2" x 5"	**0305**
Polyester Laminated Vinyl (Each)	**PLVS**		

How to Order Labels:

1 Select Material Code: **PVS**

2 Select Size Code: **0305**

3 Select Label Base Part Number: **D3304**



4 Combine Codes in Specific Order for Complete Part Number: **PVS0305D3304**

Order number of pieces required, in multiples of Standard Package Quantity.

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Labels – Polyester Laminated Vinyl (PLVS)



2" x 9"
B3502



2" x 9"
B3516



2" x 9"
B3587



1" x 6"
B3501



1" x 9"
B3534



2" x 5"
B3556



2" x 5"
B3542



2" x 5"
B3500

Available Material	Code	Available Sizes	Codes
Polyester Laminated Vinyl (Each)	PLVS	1" x 6"	0106
		1" x 9"	0109
		2" x 5"	0205
		2" x 9"	0209

How to Order Labels:

1. Select Material Code: **PLVS**
2. Select Size Code: **0205**
3. Select Label Base Part Number: **B3542** 

4. Combine Codes in Specific Order for Complete Part Number: **PLVS0205B3542**

Confined Space

Signs



7" x 10" 10" x 14"
D7110



14" x 10"
D4003



7" x 10" 10" x 14"
D7111



7" x 10" 10" x 14"
D7112



14" x 10"
D4231



7" x 10" 10" x 14"
D7115



14" x 10"
D4135



7" x 10" 10" x 14"
D7113



7" x 10" 10" x 14"
D7114



7" x 10" 10" x 14"
D7116

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	PVS	7" x 10"	0710
Polyester Laminated Vinyl (Each)	PLVS	10" x 14"	1014
Polyethylene Plastic (Each)	PRS	14" x 10"	1410
Aluminum (Each)	PAS		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **D7084** 

4. Combine Codes in Specific Order for Complete Part Number: **PVS0710D7084**

Labels



3 1/2" x 5"
D3277



3 1/2" x 5"
D3251



3 1/2" x 5"
D3253



6" x 6"
D3034



3 1/2" x 5"
D3291



3 1/2" x 5"
D3279



3 1/2" x 5"
D3285



3 1/2" x 5"
D3275

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	PVS	3 1/2" x 5"	0305
Polyester Laminated Vinyl (Each)	PLVS	6" x 6"	0606

How to Order Labels:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **D3277** 

4. Combine Codes in Specific Order for Complete Part Number: **PVS0305D3277**

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Cross Barrier

Cross out open entryway to a confined space.

- Crossbuck design fits onto bolt pattern of vertical confined space entry
- Attention-getting diagonal red-white stripes are surface-printed and protected by laminate film
- Adjustable crossbuck pivots flat for easy transport and storage
- Crossbuck arms measure 6" x 42" with 1.5" x 9" slotted cutouts at each end
- 11.5" x 11.5" octagonal sign is printed on 0.055" polyethylene plastic
- Fits 22" to 38" outside bolt-to-bolt*
- Crossbucks available in two materials:
  - **Standard** style is 0.060" polycarbonate plastic – durable to withstand initial impacts and scratches
  - **Heavy-Duty** style is 0.118" poly-aluminum – combines aluminum and thermoplastic core for high strength and impact protection

* To verify proper fit of the barrier for your entryway, measure the length across the entryway from bolt to bolt; then measure the bolt diameter and compare to slot width.

Description	Material	UOM
Standard	Plastic	Each
Heavy-Duty	Poly-Aluminum	





Plastic Poly-Aluminum **PCSP0006 PCSP0009**



Plastic Poly-Aluminum **PCSP0008 PCSP0011**



Plastic Poly-Aluminum **PCSP0007 PCSP0010**



Plastic Poly-Aluminum **PCSP0012 PCSP0013**

Permit Holder Board



Board communicates confined space requirements and holds related permits.

- Hang or set board near or at entrance of confined space to be readily seen by all
- Features large sign legend with clear acrylic pocket
- Holds 8.5" x 11" entry permit sheets (available separately)
- Constructed of durable 0.125" thick PVC
- Measures 12"H x 19"W with mounting holes
- Not recommended for outdoor use

Part No.	UOM
PCSP0001	Each

Entry Permit Pad

- Easy to write on, 8.5" x 11" sheets
- Conveniently packaged in easy to tear off pads
- 100 sheets per pad

Part No.	UOM
PCSP0002	100 Sheets/Pad



Comply with OSHA 29 CFR § 1910.146(e)(1)

Stencils

Mark confined spaces that are otherwise difficult to label by using ink or paint stencils.

- 0.010" thermo-plastic stencils
- Fits a 7" x 10" image area
- Header line has approx. 2" H letters
- Message area has 1" H letters

UOM
Each



7" x 10" **PCSP0003**



7" x 10" **PCSP0004**



7" x 10" **PCSP0005**

Order number of pieces required, in multiples of Standard Package Quantity.

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Construction

Signs



14" x 10"
D4136



7" x 10" 10" x 14"
D7119



14" x 10"
D4015



7" x 10" 10" x 14"
D7120





7" x 10" 10" x 14"
D7121



7" x 10" 10" x 14"
D7122



7" x 10" 10" x 14"
D7123



7" x 10" 10" x 14"
D7124



7" x 10" 10" x 14"
D7125



7" x 10" 10" x 14"
D7126



7" x 10" 10" x 14"
D7127



7" x 10" 10" x 14"
D7128



7" x 10" 10" x 14"
C7129



10" x 14"
D4017

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	**PVS**	7" x 10"	**0710**
Polyester Laminated Vinyl (Each)	**PLVS**	10" x 14"	**1014**
Polyethylene Plastic (Each)	**PRS**	14" x 10"	**1410**
Aluminum (Each)	**PAS**		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **D7125**



4. Combine Codes in Specific Order for Complete Part Number: **PVS0710D7125**

Crane and Construction Signals

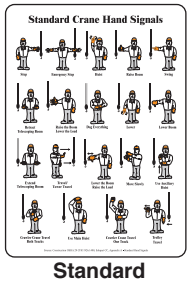
Choose from Standard, Mobile and Overhead Crane Signal Styles, as well as Ready Mix Truck Signals Style. Available as wallet cards, labels, and signs. Select styles also available as laminated, durable, flexible plastic posters.

OSHA®

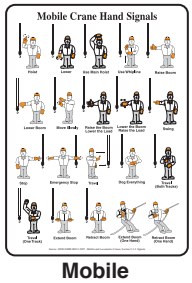
29 CFR § 1926.1422 Signals – Hand Signal Chart.

Hand signal charts must be either posted on the equipment or conspicuously posted in the vicinity of the hoisting operations.

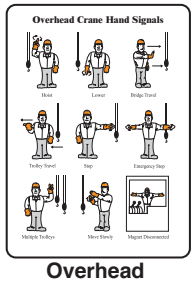
Crane Hand Signals



Standard

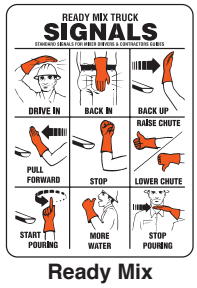


Mobile



Overhead

Truck Signals



Ready Mix

Plastic Wallet Card - 3 3/8" x 2 1/8"

Standard (2-sided)	**PSS027**
Mobile (2-sided)	**PSS028**
Overhead (1-sided)	**PSS026**
Ready Mix (1-sided)	**PSS029**

Description	UOM
Wallet Card, 2-sided	Each
Wallet Card, 1-sided	

Label - Adhesive Vinyl (PVS) 5" x 3 1/2" (0503)

To Order Labels: Select Material Code, Size Code, & Base Part Number. Combine Codes in Specific Order for Complete Part Number

Standard	**B3507**
Mobile	**B3552**
Overhead	**B3546**

Description	UOM
Label	Pkg. of 5

Sign (see How to Order Signs above box)

Available size 14" x 10" **(1410)** only

Standard	**B4542**
Mobile	**B4547**
Overhead	**B5616**
Ready Mix	**B4513**

Description	UOM
Sign	Each

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Large Signs



Mark pathways, warn of hazards, and display safety reminders in a big way around the construction site with these large signs. On an active job site, signs with bold messages and large letters are visible to gain the necessary attention from varying distances.



18" x 24" 24" x 36"
D7334



18" x 24" 24" x 36"
D7335



18" x 24" 24" x 36"
D7336



18" x 24" 24" x 36"
D7337



18" x 24" 24" x 36"
D7338



18" x 24" 24" x 36"
D7339



18" x 24" 24" x 36"
B7340



18" x 24" 24" x 36"
B7341



18" x 24" 24" x 36"
B7342



18" x 24" 24" x 36"
B7343



18" x 24" 24" x 36"
B7344



24" x 18"
B4505

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	**PVS**	18" x 24"	**1824**
Polyethylene Plastic (Each)	**PRS**	24" x 18"	**2418**
Aluminum (Each)	**PAS**	24" x 36"	**2436**

How to Order Signs:

1 Select Material Code: **PVS**

2 Select Size Code: **1824**

3 Select Label Sign Part Number: **D7336**



4 Combine Codes in Specific Order for Complete Part Number: **PVS1824D7336**

Order number of pieces required, in multiples of Standard Package Quantity.

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Electrical

Signs



7" x 10" 10" x 14"
D7130



7" x 10" 10" x 14"
D7131



7" x 10 10" x 14"
D7132



7" x 10" 10" x 14"
D7133



14" x 10"
D4115



14" x 10"
D4012



7" x 10" 10" x 14"
D7135



14" x 10"
D4188



7" x 10" 10" x 14"
D7136



7" x 10" 10" x 14"
D7137



7" x 10" 10" x 14"
D7134



7" x 10" 10" x 14"
D7142



7" x 10" 10" x 14"
D7143



7" x 10" 10" x 14"
D7144



7" x 10" 10" x 14"
D7145



7" x 10" 10" x 14"
D7146



7" x 10" 10" x 14"
W7138



7" x 10" 10" x 14"
W7139



7" x 10" 10" x 14"
C7140



7" x 10" 10" x 14"
C7147



7" x 10" 10" x 14"
N7141



PVS0109D72Y
PVS0204D72Y



PVS0204D72Y



PVS0305C174Y
PVS0505C174Y
PPS0305C174



PVS0710C173Y



PVS0209D445Y



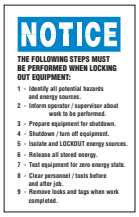
PVS0204C171Y



PVS0710C180Y



PVS0204C176Y



PVS0503N458Y



PVS0204C179Y



PPS0710D28



PRS1014D71



PRS1420D75



PRS0910D453



PVS0204C177Y



PVS0204C178Y



PPS0710D66



PPS0710D73
PPS1014D73
PRS1014D73



PPS0710D77



PPS0305W2201Y
PPS0507W2201Y

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	PVS	7" x 10"	0710
Polyester Laminated Vinyl (Each)	PLVS	10" x 14"	1014
Polyethylene Plastic (Each)	PRS	14" x 10"	1410
Aluminum (Each)	PAS		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: D7130



4. Combine Codes in Specific Order for Complete Part Number: **PVS0710D7130**

Roll of Signs

Keep multiple safety signs for on-the-spot placement.

- Convenient, portable and economical
- 7" x 10" signs are surface-printed on 0.004" vinyl with permanent acrylic adhesive back
- Matte material is moisture-resistant
- Compact roll protects additional sign versions underneath
- Simply peel-and-stick; adheres to most surfaces
- Available in two roll size options: 50 per roll and 100 per roll



50 / Roll **PVS0710D4019-L**
100 / Roll **PVS0710D4019-C**



50 / Roll **PVS0710W4025-L**
100 / Roll **PVS0710W4025-C**



50 / Roll **PVS0710C4029-L**
100 / Roll **PVS0710C4029-C**

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Labels



3 1/2" x 5" 5" x 7"
D7148



3 1/2" x 5" 5" x 7"
D7149



3 1/2" x 5" 5" x 7"
D7150



3 1/2" x 5" 5" x 7"
D7151



3 1/2" x 5" 5" x 7"
D7152



3 1/2" x 5" 5" x 7"
D7153



3 1/2" x 5" 5" x 7"
D7154



3 1/2" x 5" 5" x 7"
D7155



3 1/2" x 5"
D3161



3 1/2" x 5"
D3164



3 1/2" x 5"
D3165



3 1/2" x 5"
D3167



3 1/2" x 5"
D3166



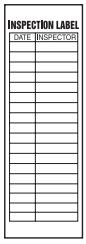
3 1/2" x 5"
D3168



3 1/2" x 5"
D3170



3 1/2" x 5"
D3175



6" x 2"
B3536



3 1/2" x 5"
D3176



3 1/2" x 5"
D3177



3 1/2" x 5"
D3178



3 1/2" x 5"
D3306



3 1/2" x 5"
D3297



3 1/2" x 5"
C3622



3 1/2" x 5"
B3512



3 1/2" x 5"
B3530



3 1/2" x 5"
B3541
With Detached Arrow

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	PVS	3 1/2" x 5"	0305
Polyester Laminated Vinyl (Each)	PLVS	6" x 2"	0602
		5" x 7"	0507

How to Order:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **D7149**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0305D7149**

Magnetic Lockout Label

Apply, move, and re-apply to most steel surfaces when servicing equipment.



5" x 3 1/2" 7" x 5"
D3120

Available Material	Code	Available Sizes	Codes
Magnetic Vinyl (Each)	PVMS	5" x 3 1/2"	0503
		7" x 5"	0705

How to Order:

1. Select Material Code: **PVMS**
2. Select Size Code: **0503**
3. Select Label Base Part Number: **D3120**
4. Combine Codes in Specific Order for Complete Part Number: **PVMS0503D3120**

Arc Flash Protection Labels



Post labels clearly identifying electrical hazards to protect workers from arc flash, shock and electrocution.

- Bold type and graphics to be clearly seen
- Labels define specifics of electrical hazards and appropriate PPE

Available Materials	Codes	Available Sizes	Codes
Polyester Laminated Vinyl (Each)	PLVS	5" x 7"	0507

How to Order Labels:

1. Select Material Code: **PLVS**
2. Select Size Code: **0507**
3. Select Label Base Part Number: **W7162**
4. Combine Codes in Specific Order for Complete Part Number: **PLVS0507W7162**



3 1/2" x 5" 5" x 7"
D7156



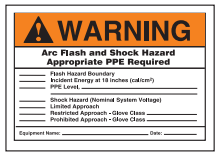
3 1/2" x 5" 5" x 7"
D7157



3 1/2" x 5" 5" x 7"
W7158



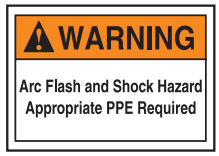
3 1/2" x 5" 5" x 7"
W7159



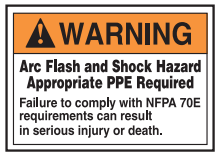
3 1/2" x 5" 5" x 7"
W7160



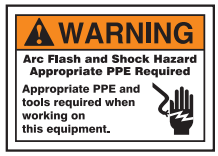
3 1/2" x 5" 5" x 7"
W7161



3 1/2" x 5" 5" x 7"
W7162



3 1/2" x 5" 5" x 7"
W7163



3 1/2" x 5" 5" x 7"
W7164

Order number of pieces required, in multiples of Standard Package Quantity.

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Voltage and Fiber Optic Markers

- Available in adhesive-backed vinyl and pre-coiled polyester to protect legend with excellent life and adhesion properties
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Black on orange labels provide a highly visible warning for electrical hazards
- Temperature Range: -40° to 250°F



Adhesive-Backed Vinyl Markers

Size Code	Marker Size	Pipe/Conduit O.D. Range	Markers Per Card	Cards/ Pkg.	Total Markers
AY	2.25"H x 9"W	3" and Over	1	5	5
BY	1.13"H x 4.5"W	1.25" – 3"	4		20
CY	0.5"H x 2.2"W	1.25" – Under	18		90

Pre-Coiled Poly Markers

Size Code	Marker Size	Pipe/Conduit O.D. Range	Markers Per Card	Cards/ Pkg.	Total Markers
MY	23"H x 14"W	2.25" – 6"	1	1	1
RY	8"H x 8"W	0.75" – 2.25"			

How to Order:

1 Select Legend Code: **PCV-110**

2 Select Size Code: 2.25"H x 9"W – **AY**

3 Combine Codes in Specific Order for Complete Part Number: **PCV-110AY**

To Order Adhesive-Backed: Add size code after part number. Available sizes AY, BY, CY.

Part No.	Legend
PCV-110	110 VOLTS
PCV-115	115 VOLTS
PCV-120/208	120/208 VOLTS
PCV-120	120 VOLTS
PCV-12470	12470 VOLTS
PCV-13200	13200 VOLTS
PCV-13800	13800 VOLTS
PCV-1PH	SINGLE PHASE
PCV-208	208 VOLTS
PCV-220	220 VOLTS
PCV-2300	2300 VOLTS

Part No.	Legend
PCV-230	230 VOLTS
PCV-2400	2400 VOLTS
PCV-240	240 VOLTS
PCV-277/480	277/480 VOLTS
PCV-277	277 VOLTS
PCV-380	380 VOLTS
PCV-3PH	THREE PHASE
PCV-415	415 VOLTS
PCV-4160	4160 VOLTS
PCV-440	440 VOLTS
PCV-460	460 VOLTS

Part No.	Legend
PCV-480	480 VOLTS
PCV-600	600 VOLTS
PCV-BLANK	BLANK – NO LEGEND
PCV-ES	EMERGENCY SERVICE
PCV-FA	FIRE ALARM
PCV-FO	FIBER OPTIC
PCV-FOC	FIBER OPTIC CABLE
PCV-MAIN	MAIN
PCV-TELE	TELEPHONE

To Order Pre-Coiled: Add size code after part number. Available sizes MY, RY.

Style M Part No.	Style R Part No.	Legend
–	PCV-120	120 Volts
–	PCV-480	480 Volts
PCV-FO	PCV-FO	Fiber Optic

Voltage Marker Books

- Black on orange labels provide a highly visible warning for electrical hazards
- Indoor rated economical general purpose vinyl
- Excellent adhesion properties when applied to a clean, dry surface
- Temperature Range: -40° to 200°F

Part No.	Legend
PCVB-110Y	110 VOLTS
PCVB-220Y	220 VOLTS
PCVB-277Y	277 VOLTS
PCVB-277/480Y	277/480 VOLTS
PCVB-440Y	440 VOLTS
PCVB-480Y	480 VOLTS
PCVB-4160Y	4160 VOLTS

Marker Size	Markers/ Page	Markers/ Book
1.5"H x 3.25"W	3	30



ISO Warning Symbol Labels

Paper

- Indoor rated general purpose
- Excellent adhesion properties when applied to a clean, dry surface
- Temperature Range: -65° to 200°F



WL1



WL3

Part No.	Description	Size	Labels Per Roll
WL1	STATIC AWARENESS WARNING	2" x 2"	500
WL3			

Vinyl

- Laminated label material protects legend from abrasion and chemicals
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Excellent life and adhesion properties
- Temperature Range: -40° to 176°F



WL33Y

Part No.	Description	Size	Labels Per Roll
WL32Y	RISK OF ELECTRIC SHOCK symbol	1.5" x 1.5"	50
WL33Y		4.5" x 4.5"	
WL35Y		2.0" x 2.0"	
WL36Y		2.0" x 2.0"	

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Electrical Labels in Dispenser



1" x 1.5"
PLD-30



1" x 1.5"
PLD-36



1" x 1.5"
PLD-37



1" x 1.5"
PLD-45


1" x 1.5"
PLD-52


1" x 1.5"
PLD-56



1" x 1.5"
PLD-38



1" x 1.5"
PLD-46



1" x 1.5"
PLD-91



1" x 1.5"
PLD-47



1" x 1.5"
PLD-74



1" x 1.5"
PLD-72



1" x 1.5"
PLD-58



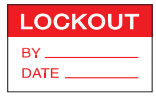
1" x 3"
PLD-60*



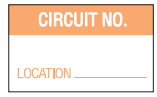
1.5" x 1"
PLD-67



1" x 1.5"
PLD-43



1" x 1.5"
PLD-68



1" x 1.5"
PLD-12

- Laminated polyester label protects legend from abrasion and chemicals
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Excellent life and adhesion properties
- Temperature Range: -40° to 250°F
- 200* labels/dispenser

*PLD-57, 300 labels/dispenser
*PLD-60, 100 labels/dispenser
*PLD-71, 150 labels/dispenser





1" x 1.5"
PLD-81



1" x 1.5"
PLD-80


.75" dia.
PLD-57*

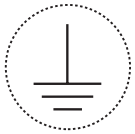


1" x 2"
PLD-71*

Conductor Identification Labels



CE
CE symbol
Size: A, B, C, D, E


ES
Earth (ground)
Size: A, B, C, D, E



L1
Outer conductor
Size: A, B, C, D, E



L2
Outer conductor 2
Size: A, B, C, D, E



L3
Outer conductor 2
Size: A, B, C, D, E



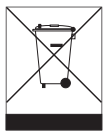
LF
Lead free symbol
Size: A



N
Neutral conductor
Size: A, B, C, D



PE
Protective conductor
Size: A


ROHS
RoHS wheeled bin symbol
Size: A


SS
Safety function
Size: A, B, C, D

- Pre-printed polyester laminated label protects legend from abrasion and chemicals
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Excellent life and adhesion properties
- Temperature Range: -40° to 250°F
- Package of 10 sheets

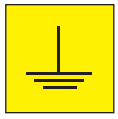
Size Code	Label Size Diameter	Labels/Sheet	Pkg. Qty.
A	0.49"	20	200
B	0.63"		
C	0.79	10	100
D	0.98"		
E	1.24"		

How to Order:

1 Material Code: **PESS-**
2 Select Size Code: .49" – **A-**
3 Select Symbol Code: – **CE**
4 Combine Codes in Specific Order for Complete Part Number: **PESS-A-CE**

Electrical Symbol Labels on Cards


0.5" x 0.5"
0.75" x .075"
AT
Warning of dangerous electrical voltage


0.5" x 0.5"
0.75" x 0.75"
E
Earth (ground)


0.5" x 0.5"
0.75" x 0.75"
EC
Safety function


0.5" x 0.5"
0.75" x 0.75"
HT
Static sensitive device – handling precautions required



0.5" x 0.5"
0.75" x 0.75"
PE
Protective conductor

- Pre-printed black on yellow with adhesive back vinyl cloth
- Conformable material with repositionable adhesive allows label to be removed and reused or used in temporary applications
- Indoor/outdoor rated for durability, high temperature resistance, and dimensional stability for rough or textured surfaces
- Temperature Range: -50° to 170°F
- Packages of 10 cards

Size Code	Label Size	Labels/Card	Pkg. Qty.
H	0.5" x 0.5"	68	680
J	0.75" x 0.75"	36	360

How to Order:

1 Material Code: **PESC-**
2 Select Size Code: 1/2" – **H-**
3 Select Symbol Code: – **AT**
4 Combine Codes in Specific Order for Complete Part Number: **PESC-H-AT**

Order number of pieces required, in multiples of Standard Package Quantity.

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Equipment

Signs



7" x 10" 10" x 14"
D7165



7" x 10" 10" x 14"
D7166



14" x 10"
D4021





7" x 10" 10" x 14"
D7167



7" x 10" 10" x 14"
D7168



14" x 10"
D4139



7" x 10" 10" x 14"
D7169



14" x 10"
D4177



7" x 10" 10" x 14"
D7170



7" x 10" 10" x 14"
D7171



7" x 10" 10" x 14"
D7172



7" x 10" 10" x 14"
W7173



7" x 10" 10" x 14"
W7174



7" x 10" 10" x 14"
C7175



14" x 10"
C4722



7" x 10" 10" x 14"
C7176



7" x 10" 10" x 14"
C7177



7" x 10" 10" x 14"
C7178



7" x 10" 10" x 14"
C7179



7" x 10" 10" x 14"
C7180



7" x 10" 10" x 14"
C7181

Available Materials	Codes
Adhesive Vinyl (Each)	**PVS**
Polyester Laminated Vinyl (Each)	**PLVS**
Polyethylene Plastic (Each)	**PRS**
Aluminum (Each)	**PAS**

Available Sizes	Codes
7" x 10"	**0710**
10" x 14"	**1014**
14" x 10"	**1410**

How to Order Signs:

1 Select Material Code: **PVS**

2 Select Size Code: **0710**

3 Select Sign Base Part Number: **D7165**



4 Combine Codes in Specific Order for Complete Part Number: **PVS0710D7165**

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Labels



3 1/2" x 5"
D3019



3 1/2" x 5"
D3148



4" x 7"
D3114



4" x 7"
D3035

California Code of Regulations, Title 8, Section 2946, Article 37



3" x 7"
D3036



3 1/2" x 5"
D3304



1 1/2" x 3"
D3018



3 1/2" x 5"
D3145



3 1/2" x 5"
D3290



3 1/2" x 5"
D3280



3 1/2" x 5"
D3284



3 1/2" x 5"
D3155
With Detached Arrow



1 1/2" x 3"
D3020



3 1/2" x 5"
D3156
With Detached Arrow



3 1/2" x 5"
D3132



3 1/2" x 5"
D3134



5" x 7"
W3658



3 1/2" x 5"
C3799



3 1/2" x 5"
C3686



3 1/2" x 5"
C3791



3 1/2" x 5"
C3793



5" x 7"
C3655



3 1/2" x 5"
B3927



3 1/2" x 5"
B3923

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	**PVS**	1 1/2" x 3"	**0103**
Polyester Laminated Vinyl (Each)	**PLVS**	3 1/2" x 5"	**0305**
		3" x 7"	**0307**
		4" x 7"	**0407**
		5" x 7"	**0507**

How to Order Labels:

1 Select Material Code: **PVS**

2 Select Size Code: **0305**

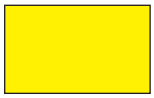
3 Select Label Base Part Number: **D3304**

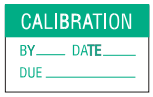


4 Combine Codes in Specific Order for Complete Part Number: **PVS0305D3304**

Production Control Labels in Dispenser


1" x 1.5"
PLD-17


1" x 1.5"
PLD-18



1" x 1.5"
PLD-3



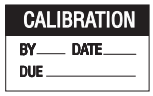
1" x 1.5"
PLD-4



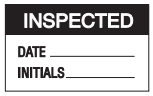
1" x 1.5"
PLD-7



1" x 1.5"
PLD-11



1" x 1.5"
PLD-22



1" x 1.5"
PLD-28



1" x 1.5"
PLD-29


0.75" dia.
PLD-62

0.75" dia.
PLD-63


0.75" dia.
PLD-64


0.75" dia.
PLD-77


0.75" dia.
PLD-78



- Laminated polyester label protects legend from abrasion and chemicals
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Excellent life and adhesion properties
- Temperature Range: -40° to 250°F
- Can be clearly identified with Panduit permanent marking pens

Shape	Size	Labels/ Dispenser
Rectangle	1" x 1.5"	200
Circle	0.75" dia.	300

Production Control Labels on Cards

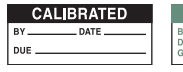

0.63" x 1.5"
PCWL-BL
Blank White



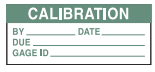
0.63" x 1.5"
PCWL-ACC
Accepted



0.63" x 1.5"
PCWL-CAL
Calibration



0.63" x 1.5"
PCWL-CALD
Calibrated



0.63" x 1.5"
PCWL-ICAL
Calibration



0.63" x 1.5"
PCWL-REJ
Rejected

- Conformable vinyl cloth with repositionable adhesive allows label to be removed and reused or used in temporary applications
- Indoor/outdoor rated provides durability, high temperature resistance, and dimensional stability for rough or textured surfaces
- Temperature Range: -50° to 170°F
- Package of 25 cards
- Can be clearly identified with Panduit permanent marking pens

Labels/Card	Total Labels
14	350

Fire & Emergency

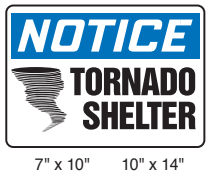
Signs



10" x 7" 14" x 10"
D7207



7" x 10" 10" x 14"
C7197



7" x 10" 10" x 14"
N7190



10" x 14"
B4551



10" x 14"
B4552



10" x 14"
B4512

Order number of pieces required, in multiples of Standard Package Quantity.

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7" x 10" 10" x 14"
B7182



7" x 10" 10" x 14"
B7183



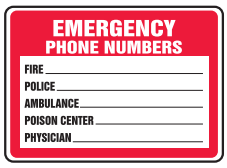
7" x 10" 10" x 14"
B7184



7" x 10" 10" x 14"
B7185



7" x 10" 10" x 14"
B7186



7" x 10" 10" x 14"
B7199



7" x 10" 10" x 14"
B7200



10" x 7" 14" x 10"
B7209



7" x 10" 10" x 14"
B7201



7" x 10" 10" x 14"
B7203



7" x 10" 10" x 14"
B7204



7" x 10" 10" x 14"
B7206



7" x 10" 10" x 14"
B7187



7" x 10" 10" x 14"
B7192



10" x 7" 14" x 10"
B7194



10" x 7" 14" x 10"
B7196



10" x 7" 14" x 10"
B7193



10" x 7" 14" x 10"
B7208



14" x 10"
B4519



7" x 10" 10" x 14"
B7195



7" x 10" 10" x 14"
B7205



7" x 10" 10" x 14"
B7188



10" x 7" 14" x 10"
B7191



7" x 10" 10" x 14"
B7189



18" x 4"
B4585



12" x 4"
18" x 4"
24" x 4"
B7202



18" x 4"
B4581



18" x 4"
B4935



12" x 4"
18" x 4"
24" x 4"
B7210



18" x 4"
24" x 4"
B7211

Column Markers





Adhesive Vinyl (12" x 24")	PVS1224B3437
Glow Adhesive (12" x 24")	PVS1224B3505

Material	UOM
Adhesive Vinyl	Each
Glow Adhesive	

Available Materials	Codes
Adhesive Vinyl (Each)	PVS
Polyester Laminated Vinyl (Each)	PLVS
Polyethylene Plastic (Each)	PRS
Aluminum (Each)	PAS

Available Sizes	Codes
7" x 10"	0710
10" x 7"	1007
10" x 14"	1014
14" x 10"	1410
12" x 4"	1204
18" x 4"	1804
24" x 4"	2404

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **B7182**



4. Combine Codes in Specific Order for Complete Part Number: **PVS0710B7182**

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Labels



3 1/2" x 5"
B3550



3 1/2" x 5" 5" x 7"
B3440



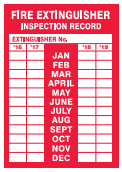
3 1/2" x 5" 5" x 7"
B3445



3 1/2" x 5" 5" x 7"
B3449



3 1/2" x 5" 5" x 7"
B3526



5" x 3 1/2"
B3539



2" x 14"
B3452



3" x 7"
B3431

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	PVS	3 1/2" x 5"	0305
Polyester Laminated Vinyl (Each)	PLVS	5" x 3 1/2"	0503
		3" x 7"	0307
		5" x 7"	0507
		2" x 14"	0214

How to Order Labels:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **B3550**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0305B3550**

First Aid

Signs



7" x 10" 10" x 14"
S7213



7" x 10" 10" x 14"
S7212



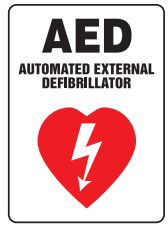
7" x 10" 10" x 14"
S7214



10" x 7" 14" x 10"
B7221



10" x 7" 14" x 10"
B7223



10" x 7" 14" x 10"
B7222



7" x 10" 10" x 14"
B7225



10" x 7" 14" x 10"
B7224



7" x 10" 10" x 14"
B7228



14" x 10"
B4503



7" x 10" 10" x 14"
B7227



7" x 10" 10" x 14"
B7229



14" x 10"
B4502



7" x 10" 10" x 14"
B7217



14" x 10"
B4508



7" x 10" 10" x 14"
B7218



10" x 7" 14" x 10"
B7219



7" x 10" 10" x 14"
B7220

• See **How to Order Signs** on next page

Labels



17" x 7"
B4997



3 1/2" x 5"
B3531



3 1/2" x 5"
B3915



3" x 7"
B3521



3 1/2" x 5" 5" x 7"
B7230



3" x 7"
B3519



6" x 5"
B3532

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	PVS	3 1/2" x 5"	0305
Polyester Laminated Vinyl (Each)	PLVS	3" x 7"	0307
		6" x 5"	0605
		5" x 7"	0507

How to Order Labels:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **B3531**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0305B3531**

Order number of pieces required, in multiples of Standard Package Quantity.

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Housekeeping & Hygiene

Signs – Adhesive Vinyl (PVS) and Polyethylene Plastic (PRS)



7" x 10" 10" x 14"
C7231



7" x 10" 10" x 14"
C7232



7" x 10" 10" x 14"
C7233



14" x 10"
C4643



7" x 10" 10" x 14"
C7234



7" x 10" 10" x 14"
C7235



7" x 10" 10" x 14"
C7236



7" x 10" 10" x 14"
C7237



14" x 10"
C4663



7" x 10" 10" x 14"
N7264



7" x 10" 10" x 14"
N7265



7" x 10" 10" x 14"
N7266



7" x 10" 10" x 14"
N7238



14" x 10"
N4804



7" x 10" 10" x 14"
N7242



7" x 10" 10" x 14"
N7243



14" x 10"
N4814



7" x 10" 10" x 14"
S7239



7" x 10" 10" x 14"
B7240



7" x 10" 10" x 14"
B7241



7" x 10" 10" x 14"
B7267



7" x 10" 10" x 14"
B7268



14" x 10"
B4944



7" x 10" 10" x 14"
B7269



14" x 10"
B4974



7" x 10" 10" x 14"
B7245



14" x 10"
B4586



7" x 10" 10" x 14"
B7244



7" x 10" 10" x 14"
B7271



7" x 10" 10" x 14"
B7270

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	PVS	7" x 10"	0710
Polyester Laminated Vinyl (Each)	PLVS	10" x 7"	1007
Polyethylene Plastic (Each)	PRS	10" x 14"	1014
Aluminum (Each)	PAS	14" x 10"	1410
		17" x 7"	1707

How to Order Signs:

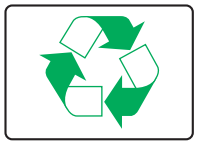
1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **S7213**



4. Combine Codes in Specific Order for Complete Part Number: **PVS0710S7213**

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Signs – Adhesive Vinyl (PVS) and Polyethylene Plastic (PRS) continued


7" x 10" 10" x 14"
B7246



7" x 10" 10" x 14"
B7247



7" x 10" 10" x 14"
B7248



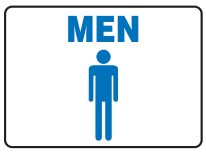
7" x 10" 10" x 14"
B7249



7" x 10" 10" x 14"
B7255



7" x 10" 10" x 14"
B7256



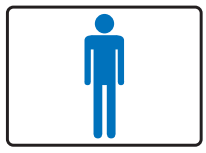
7" x 10" 10" x 14"
B7250



7" x 10" 10" x 14"
B7251



7" x 10" 10" x 14"
B7252


7" x 10" 10" x 14"
B7253


7" x 10" 10" x 14"
B7254



7" x 10" 10" x 14"
B7257



7" x 10" 10" x 14"
B7258



7" x 10" 10" x 14"
B7259



7" x 10" 10" x 14"
B7260



7" x 10" 10" x 14"
B7261



10" x 7" 14" x 10"
B7262



10" x 7" 14" x 10"
B7263



4" x 12"
B3511



4" x 12"
B3510



4" x 12"
B5531



3" x 10"
B4557



3" x 10"
B4559



3" x 10"
B4563



14" x 10"
B4521



14" x 10"
B5624



14" x 10"
B4578



14" x 10"
B4575



14" x 10"
B4576



14" x 10"
B4529

See **How to Order Signs** on next page

Labels – Adhesive Vinyl (PVS)



3 1/2" x 5"
C3612



2" x 6"
C3621



3 1/2" x 5"
N3817



3 1/2" x 5"
B3920



3 1/2" x 5"
B3506



3 1/2" x 5"
B3524



3" x 7"
B3518



3" x 7"
B3528



2" x 6"
B3504



2" x 12"
B3522



3 1/2" x 5"
B3523



3 1/2" x 5"
B3535



3 1/2" x 5"
B3520



3 1/2" x 5"
B3503



3 1/2" x 5"
B3538



3 1/2" x 5"
B3540



3 1/2" x 5"
B3529

Available Material	Code	Available Sizes	Codes
Adhesive Vinyl (Pkg. of 5)	**PVS**	2" x 6"	**0206**
		3 1/2" x 5"	**0305**
		3" x 7"	**0307**
		2" x 12"	**0212**

How to Order Labels:

1 Select Material Code: **PVS**

2 Select Size Code: **0305**

3 Select Label Base Part Number: **B3529** (TRASH ONLY)

4 Combine Codes in Specific Order for Complete Part Number: **PVS0305B3529**

Order number of pieces required, in multiples of Standard Package Quantity.

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Personal Protection

Signs



7" x 10" 10" x 14"
D7272



14" x 10"
D4106



7" x 10" 10" x 14"
D7273



7" x 10" 10" x 14"
D7274



7" x 10" 10" x 14"
D7275



7" x 10" 10" x 14"
D7276



7" x 10" 10" x 14"
D7277



7" x 10" 10" x 14"
C7278



14" x 10"
C4683



7" x 10" 10" x 14"
C7279



7" x 10" 10" x 14"
C7280



14" x 10"
C4627



7" x 10" 10" x 14"
C7281



7" x 10" 10" x 14"
C7282



7" x 10" 10" x 14"
C7283



7" x 10" 10" x 14"
C7284



14" x 10"
C4756



7" x 10" 10" x 14"
N7285



7" x 10" 10" x 14"
N7286



7" x 10" 10" x 14"
N7287

Available Materials	Codes
Adhesive Vinyl (Each)	PVS
Polyester Laminated Vinyl (Each)	PLVS
Polyethylene Plastic (Each)	PRS
Aluminum (Each)	PAS

Available Sizes	Codes
3" x 10"	0310
4" x 12"	0412
7" x 10"	0710
10" x 7"	1007
10" x 14"	1014
14" x 10"	1410

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **B7246**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0710B7246**

Labels



3 1/2" x 5"
D3307



3 1/2" x 5"
D3298



3 1/2" x 5"
C3617



3 1/2" x 5"
C3618



3 1/2" x 5"
C3623

Available Materials	Codes	Available Size	Code
Adhesive Vinyl (Pkg. of 5)	PVS	3 1/2" x 5"	0305
Polyester Laminated Vinyl (Each)	PLVS		

How to Order Labels:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **D3298**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0305D3298**

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Hard Hat Labels / Helmet Decals

Display your skill or commitment to safety in a personal way.
Adhesive vinyl 2.25" dia. labels are flexible to conform to the curve of a hard hat. Package of 10.

Standard



PHL3381



PHL3343



PHL3361



PHL3345



PHL3125



PHL3354



PHL3347



PHL3355



PHL3351



PHL3358



PHL3165



PHL3163



PHL3365



PHL3188



PHL3315



PHL3317



PHL3204



PHL3359



PHL3357



PHL3126



PHL3132



PHL3323

Reflective (Each)



PHL3619



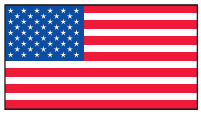
PHL3632



PHL3649

Flag Helmet Stickers

Show personal country pride.
Adhesive vinyl label has permanent adhesive back with peel-off liner.





USA Part No.	Canada Part No.	Mexico Part No.	Size	Std. Pkg. Qty.
PHL3377	PHL3402	PHL3386	1" x 1 3/4"	10
PHL3212	PHL3404	PHL3388	1 1/2" x 3"	

Smoking Control

Signs



7" x 10" 10" x 14"
N7296



7" x 10" 10" x 14"
B7292



7" x 10" 10" x 14"
B7293



7" x 10" 10" x 14"
B7288



7" x 10" 10" x 14"
B7289



7" x 10" 10" x 14"
B7290



7" x 10" 10" x 14"
B7295



10" x 7" 14" x 10"
B7294



7" x 10" 10" x 14"
B7300



7" x 17"
B4533



7" x 17"
B4501



4" x 12"
B4531



7" x 17"
B4526



7" x 5" 10" x 7"
B7291



7" x 5" 10" x 7"
B7297



7" x 5" 10" x 7"
B7298



7" x 5" 10" x 7"
B7301



7" x 5" 10" x 7"
B7302



7" x 5" 10" x 7"
B7299



7" x 5" 10" x 7"
B7303

See **How to Order Signs** on next page

Order number of pieces required, in multiples of Standard Package Quantity.

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Labels



3" x 7"
B3589



1 1/2" x 3"
B3515



1 1/2" x 3"
B3514


1 1/2" x 1 1/2" 4" x 4"
B7304

Available Materials	Codes
Adhesive Vinyl (Pkg. of 5)	PVS
Polyester Laminated Vinyl (Each)	PLVS

Available Sizes	Codes
1 1/2" x 1 1/2"	0101
1 1/2" x 3"	0103
4" x 4"	0404
3" x 7"	0307

How to Order Labels:

1 Select Material Code: **PVS** 2 Select Size Code: **0101** 3 Select Label Base Part Number: **B7304**  4 Combine Codes in Specific Order for Complete Part Number: **PLVS0101B7304**

Traffic Industrial

Signs



7" x 10" 10" x 14"
D7321



7" x 10" 10" x 14"
W7305



7" x 10" 10" x 14"
C7322



7" x 10" 10" x 14"
C7307



14" x 10"
C5662



7" x 10" 10" x 14"
C7308



7" x 10" 10" x 14"
C7309



7" x 10" 10" x 14"
C7310



7" x 10" 10" x 14"
C7311



7" x 10" 10" x 14"
C7312



7" x 10" 10" x 14"
C7313



7" x 10" 10" x 14"
C7314



14" x 10"
C4604



14" x 10"
C4601



7" x 10" 10" x 14"
C7315



7" x 10" 10" x 14"
C7306



14" x 10"
N4816



7" x 10" 10" x 14"
N7316



7" x 10" 10" x 14"
N7317



7" x 10" 10" x 14"
N7318



7" x 10" 10" x 14"
N7319



7" x 10" 10" x 14"
N7320

Available Materials	Codes
Adhesive Vinyl (Each)	PVS
Polyester Laminated Vinyl (Each)	PLVS
Polyethylene Plastic (Each)	PRS
Aluminum (Each)	PAS

Available Sizes	Codes
4" x 12"	0412
7" x 5"	0705
7" x 10"	0710
10" x 7"	1007
10" x 14"	1014
14" x 10"	1410
7" x 17"	0717

How to Order Signs:

1 Select Material Code: **PVS** 2 Select Size Code: **0710** 3 Select Sign Base Part Number: **B7288**  4 Combine Codes in Specific Order for Complete Part Number: **PVS0710B7288**

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Labels



3 1/2" x 5"
C3613



3 1/2" x 5"
B3576



3 1/2" x 5"
B3571



3 1/2" x 5"
B3562



3 1/2" x 5"
B3527



3 1/2" x 5"
B3525

Available Materials	Codes	Available Size	Code
Adhesive Vinyl (Pkg. of 5)	**PVS**	3 1/2" x 5"	**0305**
Polyester Laminated Vinyl (Each)	**PLVS**		

How to Order Labels:

1. Select Material Code: **PVS**
2. Select Size Code: **0305**
3. Select Label Base Part Number: **B3562**
4. Combine Codes in Specific Order for Complete Part Number: **PVS0305B3562**

Labels – Polyester Laminated Vinyl (PLVS)



2" x 5"
B3557



2" x 5"
B3559



2" x 5"
B3545



2" x 5"
B3549



2" x 5"
B3543



2" x 5"
B3567



2" x 5"
B3565



2" x 5"
B3569

Available Material	Code	Available Size	Code
Polyester Laminated Vinyl (Each)	**PLVS**	2" x 5"	**0205**

How to Order Labels:

1. Select Material Code: **PLVS**
2. Select Size Code: **0205**
3. Select Label Base Part Number: **B3545**
4. Combine Codes in Specific Order for Complete Part Number: **PLVS0205B3545**

Fluorescent Alert Signs

Bright, attention-getting signs for cross traffic areas.

- Highly visible fluorescent red-orange or lime-yellow
- Durable 0.060" plastic
- Pre-drilled mounting holes
- For indoor use only



24" x 18"
PSSFB4055



24" x 18"
PSSFB4059



24" x 18"
PSSFB4057



18" x 12"
PSSFC4038



18" x 12"
PSSFC4040



18" x 12"
PSSFC4034



18" x 12"
PSSFC4036



Order number of pieces required, in multiples of Standard Package Quantity.

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Vinyl Cloth Letters and Numbers Markers

- Contrasting colors for easy visibility
- Thin conformable material with repositionable adhesive allows label to be removed and reused
- Indoor/outdoor rated provides durability, high temperature resistance and dimensional stability for rough or textured surfaces
- Black on yellow characters
- Temperature Range: -50° to 170°F



Individual Letter and Number Markers

Part No.	Character Height	Marker Size	Markers/ Card	Cards/Pkg.
PCL037-*	0.38"	0.50"H x 0.34"W	78	25
PCL062-*	0.63"	0.75"H x 0.56"W	32	
PCL100-*	1"	1.5"H x 0.88"W	10	
PCL200-*	2"	2.25"H x 0.88"W		
PCL300-*	3"	3.5"H x 1.5"W	6	

How to Order:

1 Refer to Part Number (No.): 0.38" – **PCL037-***

2 Specify Character Legend A thru Z, 0 thru 9, – (dash) for Asterisk (*): **PCL037-A**

Vinyl Letter and Number Markers

- Indoor/outdoor rated conformable heavy duty adhesive back vinyl for flat applications
- Resistant to UV light, chemical atmosphere and abrasion
- Black on yellow characters for visible safety and facility identification
- Temperature Range: -50° to 225°F



Part No.	Character Height	Label Size	Markers/ Card	Cards/ Pkg.	Total Markers
PVL100BY-*-Y	1"	1.5"H x 0.88"W	10	25	250
PVL200BY-*-Y	2"	2.25"H x 0.88"W			

How to Order:

1 Refer to Part Number (No.): 1" – **PVL100BY-*-Y**

2 Specify Character Legend A thru Z, 0 thru 9, – (dash) for Asterisk (*): **PVL100BY-A-Y**

Consecutive Number Marker Sets

Part No.	Series	Character Height	Marker Size	Markers/ Card	Cards/ Pkg.
PCL037-0-9	0 thru 9	0.38"	0.50"H x 0.34"W	78	25
PCLCP037-0-9					1
PCL062-0-9	0 thru 9	0.63"	0.75"H x 0.56"W	32	25
PCLCP062-0-9					1
PCL100-0-9	0 thru 9	1"	1.5"H x 0.88"W	10	25
PCLCP100-0-9					1
PCL200-0-9	0 thru 9	2"	2.25"H x 0.88"W	10	25
PCLCP200-0-9					1
PCLCP300-0-9	0 thru 9	3"	3.5"H x 1.5"W	6	1

Consecutive Letter Marker Sets

Part No.	Series	Character Height	Marker Size	Markers/ Card	Cards/ Pkg.
PCL037-A-Z	A thru Z	0.38"	0.50"H x 0.34"W	78	25
PCLCP037-A-Z					1
PCL062-A-Z	A thru Z	0.63"	0.75"H x 0.56"W	32	25
PCLCP062-A-Z					1
PCL100-A-J	A thru J	1"	1.5"H x 0.88"W	10	25
PCL100-K-T	K thru T				
PCL100-U-Z	U thru Z				
PCLCP100-A-Z	A thru Z	1"	1.5"H x 0.88"W	10	1
PCL200-A-J	A thru J	2"	2.25"H x 0.88"W	10	25
PCL200-K-T	K thru T				
PCL200-U-Z	U thru Z				
PCLCP200-A-Z	A thru Z	2"	2.25"H x 0.88"W	10	1
PCLCP300-A-Z	A thru Z	3"	3.5"H x 1.5"W	6	1

Reflective Vinyl Letters and Numbers Markers

- Contrasting black and yellow visibility
- Heavy-duty reflective vinyl with adhesive back flat applications for safety and facility identification
- Indoor/outdoor rated for resistance to UV light, chemical atmosphere, and abrasion
- Temperature Range: -30° to 200°F



Individual Letter and Number Markers

Part No.	Character Height	Marker Size	Color Character on Background	Markers/ Card
PRL100BY-*	1"	1.63"H x 1"W	Black on Yellow	25
PRL150YB-*	1.50"	1.88"H x 1.38"W	Yellow on Black	
PRL250YB-*	2.50"	2.88"H x 1.75"W		

How to Order:

1 Refer to Part Number (No.): 1" – **PRL100BY-***

2 Specify Character Legend A thru Z, 0 thru 9, – (dash) for Asterisk (*): **PRL100BY-A**

Consecutive Letter and Number Marker Sets

Part No.	Series	Character Height	Marker Size	Color Character on Background	Markers/ Card
PRL100BY-18KIT	0 thru 9, A thru D, L, P, R, S	1"	1.63"H x 1"W	Black on Yellow	900
PRL100BY-36KIT	0 thru 9, A thru Z				950

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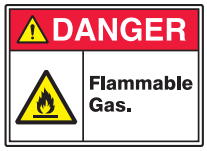
ANSI ISO Safety Signs



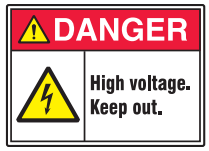
10" x 14"
D4107



10" x 14"
D4105



10" x 14"
D5107



10" x 14"
D5113



10" x 14"
D4104



10" x 14"
D4108



10" x 14"
D4009



10" x 14"
D4081



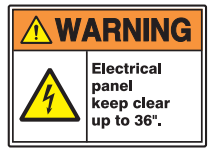
10" x 14"
D4113



10" x 14"
W4303



10" x 14"
W4307



10" x 14"
W4308



10" x 14"
W4312



10" x 14"
W4305



10" x 14"
C4647



10" x 14"
C4644



10" x 14"
C4603



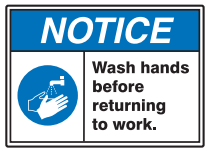
10" x 14"
C5643



10" x 14"
N4809



10" x 14"
N4805



10" x 14"
N4825



10" x 14"
B4913



10" x 14"
B7226



10" x 14"
B4509

Available Materials	Codes	Available Size	Code
Adhesive Vinyl (Each)	**PVS**	10" x 14"	**1014**
Polyester Laminated Vinyl (Each)	**PLVS**		
Polyethylene Plastic (Each)	**PRS**		
Aluminum (Each)	**PAS**		

How to Order Signs:

1 Select Material Code: **PVS**

2 Select Size Code: **1014**

3 Select Sign Base Part Number: **D4107**



4 Combine Codes in Specific Order for Complete Part Number: **PVS1014D4107**

ISO Warning Symbols

Use internationally recognized symbols for hazard warning and identification

- International Organization for Standardization (ISO) labels communicate safety without words
- Warning-shaped triangles with symbols to communicate hazard message
- Made of self-adhesive vinyl with durable overlaminate

Part Number	Label Width In. (mm)	Marker Qty.	Std. Pkg. Qty.
PESW-A-*	0.50 (13.0)	10/card	10 cards
PESW-AA-11Y	0.30 (7.6)	80/card	
PESW-B-*	1.00 (25.4)	10/card	
PESW-C-*	1.97 (50.0)		
PESW-D-*	3.90 (99.1)	3/card	
PLVS0202*	2	1/card	10 cards
PLVS0404*	4		5 cards


PESW-*-1Y
Caution – Risk of Electric Shock


PESW-*-6Y
Caution – Risk of Ionizing Radiation


PESW-*-8Y
Caution – Laser Beam


PESW-*-9Y
Caution – General Warning, Risk of Danger


PESW-*-11Y
Warning of Static Sensitive Device


PESW-AA-11Y
Warning of Static Sensitive Device


W3152
Crush Hazard


W3153
Pinch Point Hazard


W3154
Belt Drive Entanglement Hazard


W3156
Gear Entanglement Hazard


W3158
Cut or Sever Hazard


W3198
Heated/Hot Surface Hazard

Order number of pieces required, in multiples of Standard Package Quantity.

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Glow Clear-Shield Signs

Glows

Contemporary clear-shield signs look good in regular light and perform in the dark.

- Architectural-style signs for the office as well as industrial environments
- Printed on photoluminescent film
- Can be seen when power goes out
- Sub-surface protected from top wear
- Mounts with double-sided adhesive foam tape (included)





6" x 9" PSSG4024 | 6" x 9" PSSG4033 | 6" x 9" PSSG4021 | 3" x 9" PSSG4012 | 9" x 6" PSSG4721

6" x 9" PSSG4025 | 9" x 6" PSSG4032 | 9" x 6" PSSG4031 | 9" x 6" PSSG4029 | 9" x 6" PSSG4751

6" x 9" PSSG4023 | 3" x 9" PSSG4016 | 3" x 9" PSSG4018 | 9" x 6" PSSG4039 | 9" x 6" PSSG4036

Glow Signs

Glows

Severe Weather Signs



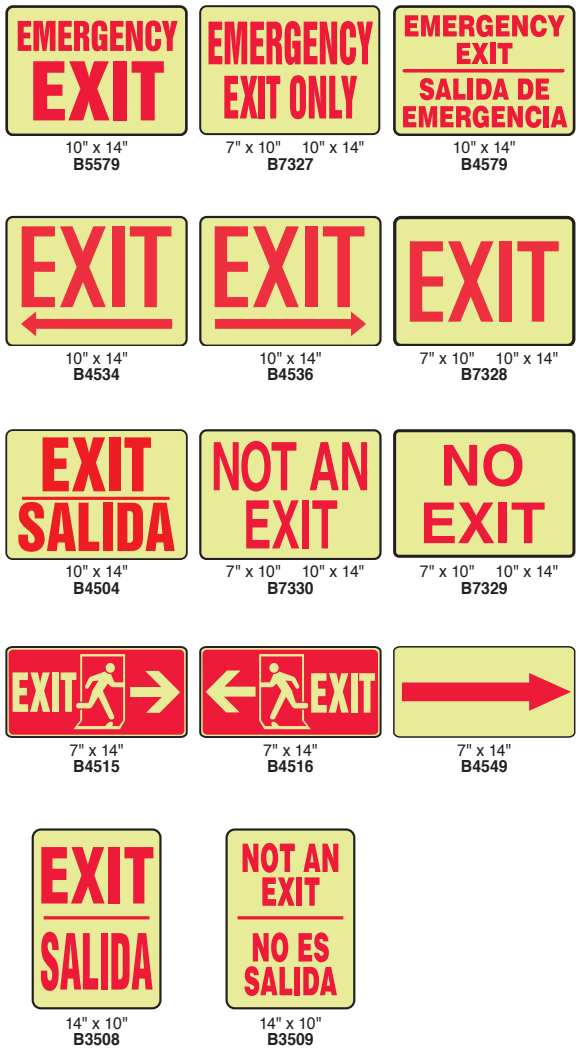
7" x 10" 10" x 14" B7323 | 7" x 10" 10" x 14" B7324 | 10" x 7" 14" x 10" B7325 | 10" x 7" 14" x 10" B7326

Fire Signs



10" x 7" 14" x 10" B7331 | 7" x 10" 10" x 14" B7332 | 18" x 4" B4510 | 18" x 4" B4507 | 12" x 4" 18" x 4" 24" x 4" B7333

Exit & Emergency Signs



10" x 14" B5579 | 7" x 10" 10" x 14" B7327 | 10" x 14" B4579

10" x 14" B4534 | 10" x 14" B4536 | 7" x 10" 10" x 14" B7328

10" x 14" B4504 | 7" x 10" 10" x 14" B7330 | 7" x 10" 10" x 14" B7329

7" x 14" B4515 | 7" x 14" B4516 | 7" x 14" B4549

14" x 10" B3508 | 14" x 10" B3509

Available Materials	Codes	Available Sizes	Codes	Available Sizes	Codes
Glow Adhesive (Each)	PVSG	7" x 10"	0710	14" x 10"	1410
Glow Plastic (Each)	PRSG	7" x 14"	0714	12" x 4"	1204
		10" x 7"	1007	18" x 4"	1804
		10" x 14"	1014	24" x 4"	2404

How to Order Signs:

1 Select Material Code: **PVSG**

2 Select Size Code: **0714**

3 Select Label Sign Part Number: **B4515**



4 Combine Codes in Specific Order for Complete Part Number: **PVSG0714B4515**

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Projecting Signs

When you need identification, location, and direction, signs can be seen from various angles for extra visibility.

Hang signs along hallways, stairways, corridors, and doorways. Projecting Signs are 0.100" thick high-impact plastic with images on the two panels that are covered by a UV protective coating. Flanged edges have pre-drilled mounting holes. Wall mount with screws or self-adhesive foam tape (both included).

3D Signs

Project 45° from the wall, provide optimum viewing from the front and sides



90D Signs

Project 90° from the wall, are viewed from either side





3D - 8" x 12" Panel **PSS3P4034**
90D - 8" x 12" Panel **PSS9P4034**



3D - 8" x 12" Panel **PSS3P4036**
90D - 8" x 12" Panel **PSS9P4036**



3D - 6" x 5" Panel **PSS3P4021**
90D - 8" x 8" Panel **PSS9P4021**



3D - 6" x 5" Panel **PSS3P4019**
90D - 8" x 8" Panel **PSS9P4019**



3D - 18" x 4" Panel **PSS3P4029**
90D - 18" x 4" Panel **PSS9P4029**



3D - 6" x 5" Panel **PSS3P4049**
90D - 8" x 8" Panel **PSS9P4049**



3D - 12" x 9" Panel **PSS3P4392**
90D - 12" x 9" Panel **PSS9P4392**



3D - 6" x 5" Panel **PSS3P4014**
90D - 8" x 8" Panel **PSS9P4014**



3D - 18" x 4" Panel **PSS3P4016M**
90D - 18" x 4" Panel **PSS9P4016M**



3D - 24" x 4" Panel **PSS3P4026**
90D - 24" x 4" Panel **PSS9P4026**



3D - 6" x 5" Panel **PSS3P4006**
90D - 8" x 8" Panel **PSS9P4006**



3D - 6" x 5" Panel **PSS3P4037**
90D - 8" x 8" Panel **PSS9P4037**

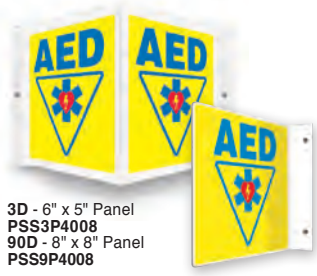
Order number of pieces required, in multiples of Standard Package Quantity.

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3D - 18" x 4" Panel
90D - 18" x 4" Panel

PSS3P4069
PSS9P4069



3D - 6" x 5" Panel
PSS3P4008
90D - 8" x 8" Panel
PSS9P4008



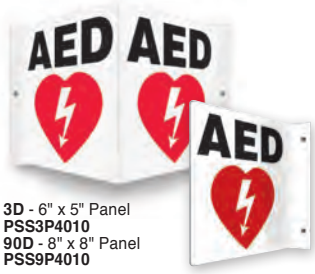
3D - 6" x 5" Panel
PSS3P4062
90D - 8" x 8" Panel
PSS9P4062



3D - 12" x 9" Panel
PSS3P4658
90D - 12" x 9" Panel
PSS9P4658



3D - 6" x 5" Panel
PSS3P4011
90D - 8" x 8" Panel
PSS9P4011



3D - 6" x 5" Panel
PSS3P4010
90D - 8" x 8" Panel
PSS9P4010



3D - 6" x 5" Panel
PSS3P4002
90D - 8" x 8" Panel
PSS9P4002



3D - 18" x 4" Panel
90D - 18" x 4" Panel

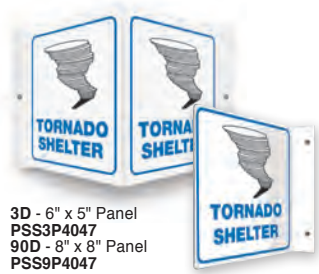
PSS3P4070
PSS9P4070



3D - 6" x 5" Panel
PSS3P4042
90D - 8" x 8" Panel
PSS9P4042



3D - 6" x 5" Panel
PSS3P4053
90D - 8" x 8" Panel
PSS9P4053



3D - 6" x 5" Panel
PSS3P4047
90D - 8" x 8" Panel
PSS9P4047



3D - 6" x 5" Panel
PSS3P4055
90D - 8" x 8" Panel
PSS9P4055



3D - 12" x 9" Panel
PSS3P4443
90D - 12" x 9" Panel
PSS9P4443



3D - 12" x 9" Panel
PSS3P4444
90D - 12" x 9" Panel
PSS9P4444



3D - 8" x 12" Panel
PSS3P4087
90D - 8" x 12" Panel
PSS9P4087



3D - 8" x 12" Panel
PSS3P4071
90D - 8" x 12" Panel
PSS9P4071
*SDS - Safety Data Sheets



3D - 8" x 12" Panel
PSS3P4058
90D - 8" x 12" Panel
PSS9P4058



3D - 6" x 5" Panel
PSS3P4081
90D - 8" x 8" Panel
PSS9P4081



3D - 6" x 5" Panel
PSS3P4035
90D - 8" x 8" Panel
PSS9P4035



3D - 6" x 5" Panel
PSS3P4023
90D - 8" x 8" Panel
PSS9P4023

Panel Size	3D Projection Overall Size	90D Projection Overall Size
6" x 5"	6" x 8 1/2" x 4"	—
8" x 8"	—	8" x 8" x 1 1/2"
8" x 12"	8" x 18" x 9"	8" x 12" x 1 1/2"

Panel Size	3D Projection Overall Size	90D Projection Overall Size
18" x 4"	18" x 7 1/2" x 3"	18" x 4" x 1 1/2"
12" x 9"	12" x 14" x 7"	12" x 9" x 1 1/2"
24" x 4"	24" x 7 1/2" x 3"	24" x 4" x 1 1/2"

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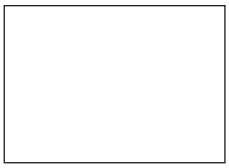
Sign Panels – Blank Space for Custom Messages

Sub-Surface Printed Adhesive Polyester (Type PPS):

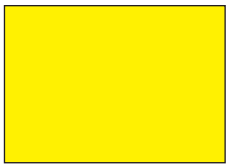
- High quality signs for use indoors and outdoors
- Excellent resistance to UV light, chemical atmosphere and abrasion
- Excellent life and adhesion properties
- Printed graphics are protected by clear polyester laminate
- Temperature Range: -40° to 275°F

Rigid Polyethylene (Type PRS):

- Rugged signs for indoors and outdoors
- Abrasion resistant
- Used where adhesives will not work
- Can be used with Panduit Thermal Transfer Desktop Printers and Easy-Mark™ Labeling Software to create your own custom signs
- Print your own legend on clear polyester tape with the TDP43ME Thermal Transfer Desktop Printer and adhere label to adhesive or non-adhesive sign panel
- Can also be used with Panduit die cut letters and numbers
- Temperature Range: -105° to 250°F



7" x 10" 10" x 14" 14" x 20"
BWHT



7" x 10" 10" x 14" 14" x 20"
BYEL



7" x 10" 10" x 14" 14" x 20"
C442



7" x 10" 10" x 14" 14" x 20"
D440



7" x 10" 10" x 14" 14" x 20"
N443

Available Materials	Codes	Available Sizes	Codes
Printed Adhesive Polyester (Each)	**PPS**	7" x 10"	**0710**
Rigid Polyethylene (Each)	**PRS**	10" x 14"	**1014**
		14" x 20"	**1420**

How to Order Signs:

1. Select Material Code: **PPS**
2. Select Size Code: **0710**
3. Select Sign Base Part Number: **D440**



4. Combine Codes in Specific Order for Complete Part Number: **PPS0710D440**

Laser Printable Adhesive Signs

- Signs can be printed with a standard laser printer
- Indoor polyolefin pressure sensitive signs with square corners on stay-flat liner
- 25 signs per package



8 1/2" x 11"
SEZ-1CLL



8 1/2" x 11"
SEZ-1DLL



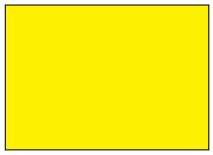
8 1/2" x 11"
SEZ-1NLL



8 1/2" x 11"
SEZ-1WLL



8 1/2" x 11"
SEZ-1WHLL



8 1/2" x 11"
SEZ-1YLL

Self-Laminating Adhesive Sign Carriers

- Indoor/outdoor rated for resistance to UV light, chemical atmosphere and abrasion
- Excellent for applications where adhesives will not work
- Temperature Range: -40° to 150°F
- 5 carriers/pkg.

Part No.	Size
Adhesive	
SEZ-SNC1	6"H x 7"W
SEZ-SNC2	7"H x 10.5"W
SEZ-SNC3	6"H x 12"W
SEZ-SNC4	9.5"H x 12"W
Non-Adhesive	
SEZ-RSC1	6"H x 7"W
SEZ-RSC2	7"H x 10.5"W
SEZ-RSC3	9.5"H x 12"W
SEZ-RSC4	6"H x 12"W



Order number of pieces required, in multiples of Standard Package Quantity.

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Safety Tags

Our selection of safety tags is just as diverse as your workplace.

- Prevent the potential for accidental injury and property damage
- Alert, call out or draw attention to temporary hazards
- Required critical tool in safety, performance and maintenance operations

We Have What You Need

Look to us for the tags that you need! In addition to standard OSHA safety tags, our comprehensive selection of safety tags incorporates key categories like Lockout/Tagout, Equipment Status and Record Inspection.

Safety Tags Identify Temporary Hazards

Safety Tags...

- Call out attention to hazards
- Prevent the potential for accidental injury or property damage
- Identify and inform that a hazardous condition exists

Attach and hang the tags as close as possible to the hazard situation where the tag can be readily seen. Tags are to remain in-place until the hazard is eliminated or the hazardous operation is complete.

The Occupational Safety and Health Administration (OSHA 29 CFR §1910.145) and American National Standards Institute (ANSI Z535) provide specifications, designs, applications, and uses of accident prevention tags. Tags can be printed in a variety of colors and messages to meet your needs. They are typically designed with an attention-getting signal word for a degree of hazard along with a specific message and areas to write in particular information.

Safety tags are an inexpensive, fast solution for temporary marking and identification of hazards.

Note: A tag shall not be used in place of a permanent sign or label for hazards in normal use, operation or maintenance.

Choose the Right Tag Material

Select a material based on your application requirements to ensure your message is conveyed clearly and effectively.

Poly Cardstock (PCT)

Pulp-free tags have no wood pulp or paper content, unlike standard cardstock tags, and are available at an economical price.

Material Features

- Thin, pliable 0.010" poly-based tags will not crack, distort, or shrink
- Waterproof and tear-resistant from incidental pulls and snags
- Can be printed on both sides
- Scuff-resistant matte surface is easy to write on with pen or marker
- 3/8" non-reinforced hole

Applications

- Indoor usage
- Non-reinforceable hole



Rigid Plastic (PVT)

High-strength rigid plastic tag is ideal for use in tough industrial environments – resists chemicals, tears, and abrasions.

Material Features

- 0.015" thick rigid plastic tags are relatively bendable
- Matte surface is easy to write on with pen or marker
- Can be printed on both sides
- 3/8" hole, reinforced by a pull-proof metal grommet

Applications

- Indoor and temporary outdoor usage
- Chemical and dirty/ greasy environments



Laminate Plastic (PCTL)

Nearly indestructible tag is made to withstand tough, abusive conditions.

Material Features

- 0.010" cardstock tag sealed by a thick, 0.007" laminate on both sides – right to the edges – to protect the printed image
- Tear-proof, weatherproof and chemical-resistant
- Durable to withstand dirt, grease, liquid splashes and rough handling
- Scratch-resistant matte-finish laminate surface is easy to write on with pen or marker
- 3/8" hole, reinforced by a pull-proof metal grommet
- Available in Lockout Tags

Applications

- Indoor and outdoor usage - when the most durable tags are required
- Chemical applications and tough industrial settings



Self-Laminating Tags

Protect written messages and photos when your life is on the line.

- Write information and insert a photo (where applicable), then laminate your own tag
- Protection from moisture, chemicals and dirt
- Prevents tampering with the information
- Dual self-laminating polyester flaps pre-attached at the top
- Reinforced by a pull-proof metal grommet



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Standard Safety Tags



Back A 1006
Back B 1023



Back A 1011
Back B 1016



Back A 1004
Back B 1017



Back A 1002
Back B 1026



Back A 1005
Back B 1018



Back A 1007
Back B 1022



Back A 1003
Back B 1020



Back A 1014
Back B 1021



Back A 1012
Back B 1024



Back A 1009
Back B 1025



Back A 1008
Back B 1019



Back A 1010
Back B 1015



Back A 1034
Back B 1038



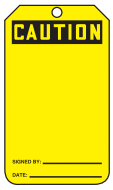
Back A 1036
Back B 1040



Back A 1035
Back B 1039



Back A 1001
Back B 1042



Back A 1037
Back B 1041



PVT-9-Q



PVT-23





Front PVT-30 Back



PVT-44



PVT-56-Q



PVT-57-Q



PVT-62-Q



PVT-96



PVT-97





Front PVT-98 Back



PVT-99





Front PVT-110 Back





Front PVT-111 Back





Front PVT-112 Back



PVT-148-Q



PVT-150-Q



PVT-153-Q



PVT-155-Q



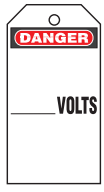
PVT-156-Q



PVT-157-Q



PVT-160-Q



PVT-238-Q

Choose from two back message styles, noted under each part number as A and B.





STANDARD **BACK A** STANDARD **BACK B**

Blank Header Tags



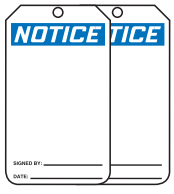
Front Back
1027



Front Back
1064



Front Back
1043



Front Back
1061

Order number of pieces required, in multiples of Standard Package Quantity.

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Bilingual Spanish Safety Tags



1126



1125



1063



1151



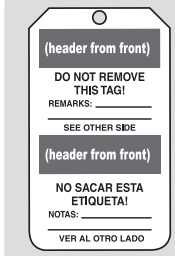
1127



1153



1152



STD BILINGUAL BACK





Front **PVT-97S-Q** Back





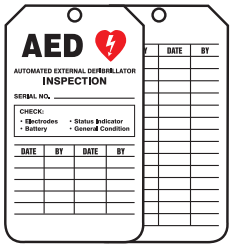
Front **PVT-161-Q** Back



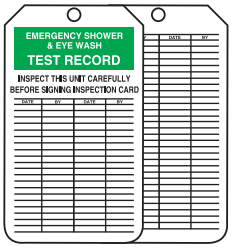


Front **PVT-165-Q** Back

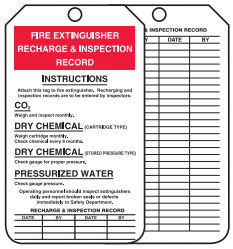
Inspection & Status Record Tags



Front Back
1148



Front Back
1047



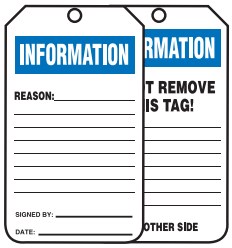
Front Back
1048



Front Back
1128



Front Back
1117



Front Back
1131



Front Back
1130



Front Back
1136



Front Back
1134



Front Back
1137



Front Back
1133



Front Back
1132



Front Back
1138

Available Materials	Codes	Available Packages	Codes
Poly Cardstock	PCT-	Pk. of 5	(blank)
Rigid Plastic	PVT-	Pk. of 25	-Q

How to Order Tags:

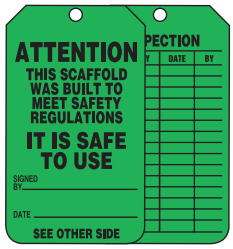


1. Select Material Code: **PCT-**
2. Select Tag Base Part Number: **1011**
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PCT-1011**; 25/Pk – **PCT-1011-Q**

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Status Tags

Scaffold Tags



Front Back
1143



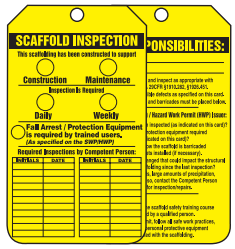
Front Back
1155



Front Back
1154

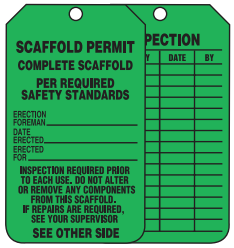


Front Back
1156

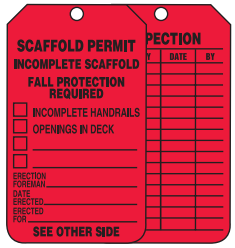


Front Back
1139

Barricade Tags



Front Back
1142



Front Back
1140



Front Back
1141



Front Back
1066



Front Back
1067

Forklift Tags



Front Back
1065



Front Back
1068



Front Back
1146

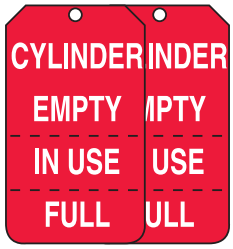


Front Back
1135



Front Back
1145

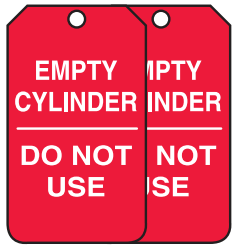
Cylinder Tags



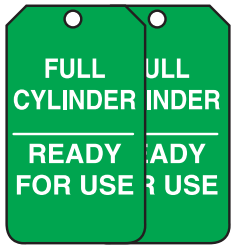
Front Back
1046



Front Back
1050



Front Back
1044



Front Back
1045



Front Back
1049

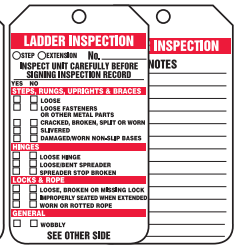
Ladder Tags



Front Back
1144



Front Back
1013



Front Back
1147

Available Materials	Codes	Available Packages	Codes
Poly Cardstock	PCT-	Pk. of 5	(blank)
Rigid Plastic	PVT-	Pk. of 25	-Q

How to Order Tags:

1. Select Material Code: **PCT-**
2. Select Tag Base Part Number: **1050**
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PCT-1050**; 25/Pk – **PCT-1050-Q**

Order number of pieces required, in multiples of Standard Package Quantity.

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Lockout Tags



1051



1054



1052



1053



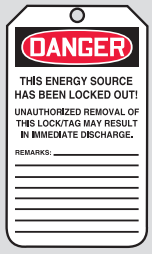
1056



1055



1057



STD LOCKOUT BACK



1150



STD BILINGUAL LOCKOUT BACK

Available Materials	Codes	Available Packages	Codes
Poly Cardstock	PCT-	Pk. of 5	(blank)
Rigid Plastic	PVT-	Pk. of 25	-Q
Laminate Plastic (Pk. of 5)	PCTL-		

How to Order Tags:



1. Select Material Code: **PCT-**
2. Select Tag Base Part Number: **1051**
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PCT-1051**; 25/Pk – **PCT-1051-Q**

Self-Laminating Lockout Tags



Front Back
1060



Front Back
1058



Front Back
1059



Front Back
PST-3



Front Back
PST-12

Available Materials	Codes	Available Packages	Codes
Poly Cardstock	PSCT-	Pk. of 5	(blank)
Rigid Plastic	PST-	Pk. of 25	-Q

How to Order Tags:



1. Select Material Code: **PSCT-**
2. Select Tag Base Part Number: **1060**
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PSCT-1060**; 25/Pk – **PSCT-1060-Q**

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Tag Holder Systems

Insert, enclose and contain your status alert tags in a secure tag holder system.

- Mount durable plastic holder and insert tag to display alert status
- Default "DO NOT USE" message shows when no tag is inserted
- Available in two styles:

(A) Secure-Status – Durable plastic holder measures 10"H x 3 1/2"W x 3/8" overall with 5 1/2"H x 2 3/4"W clear view front window. Upper jaws close to fit onto post rails or poles up to 2 3/8" diameter or through any 1/2" opening to lock out a device. Accommodates up to four padlocks (sold separately).

(B) Status Alert – Durable 0.060" thick plastic holder measures 12"H x 4 1/2"W overall with a 2 3/4" diameter opening at top. Insert tag into the 5 1/2"H x 4 1/2"W clear polycarbonate plastic front pocket, secure with nylon tie (sold separately) and mount in a visible location with large opening at the top.





(A) Secure-Status Holder



PT-1164



PT-1162



PT-1165



PT-1163

(B) Status Alert Holder



PT-1160



PT-1158



PT-1161



PT-1159

Order number of pieces required, in multiples of Standard Package Quantity.

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Roll of Tags

Portable dispenser roll for your on-the-go needs

- Keep a large quantity of tags readily available
- Tags are connected end-to-end with perforations, and housed in an convenient cardboard dispenser
- Dispenser box measures 6 5/8"H x 6 5/8"W x 3 5/8"D
- Box features 1 1/2" perforated center hole for mounting
- Poly cardstock tags are tear- and water-resistant
- Tags measure 6 1/4"H x 3"W, with 3/8" hole
- Writable matte surface, printed on both sides with space to sign, date and add notes
- Available in 100 and 250 tags per roll

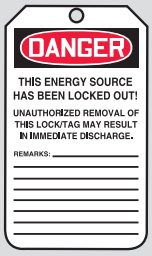








STANDARD BACK



STD. LOCKOUT BACK

General Safety Tags



100/Roll **PCT-1077-C**
250/Roll **PCT-1086-B**



100/Roll **PCT-1078-C**
250/Roll **PCT-1081-B**



100/Roll **PCT-1080-C**
250/Roll **PCT-1087-B**



100/Roll **PCT-1093-C**
250/Roll **PCT-1096-B**



100/Roll **PCT-1083-C**
250/Roll **PCT-1088-B**



100/Roll **PCT-1084-C**
250/Roll **PCT-1089-B**



100/Roll **PCT-1085-C**
250/Roll **PCT-1090-B**

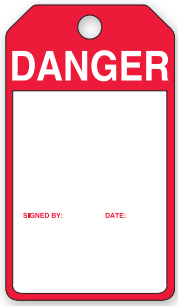
Thick Plastic Tags

This tag can take the abuse of the harshest industrial environment. It's thick, tough, and rigid to withstand tugging, pulling, twisting and bending.

- Made of tough recycled polycarbonate
- Relief text increases visibility
- Double-sided
- Polycarbonate plastic resists most corrosive environments
- Write on these tags with permanent marker
- 3/8" hole without grommet meets dielectric requirements
- Measures 5 7/16" x 3 1/16" x 1/8"
- Available in packages of 5 and 25



Pkg/5 **PVT-1062**
Pkg/25 **PVT-1062-Q**



Pkg/5 **PVT-1162**
Pkg/25 **PVT-1162-Q**



STANDARD BACK

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Scaffold Status 3 'n 1 Fold Tag

Quickly and conveniently change the safety status of your scaffold with our 3 'n 1 Fold Tag.

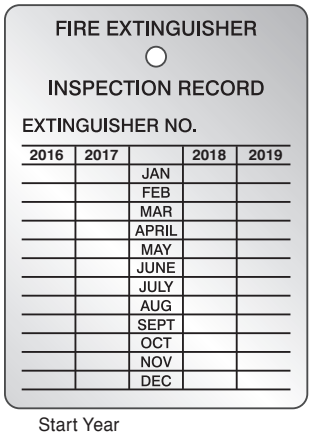
- Display DANGER, CAUTION or ATTENTION messages all from the same tag with a simple fold
- Ideal for use with Secure-Status or Status Alert Holder (sold separately)
- Front and back display the same color with related info
- Folded tag size: 5 3/4" x 3 1/4". Unfolded size: 11 1/2" x 6 1/2"
- Available in Poly Cardstock (PCT) or Rigid Plastic (PVT) in packs of 5 or 25



Simply fold tag to display appropriate message. When status changes remove tag from holder and unfold to change message. Shown with Secure-Status Holder.

Material	Part No.	UOM	Part No.	UOM
Poly Cardstock	PCT-1157	Pkg. of 5	PCT-1157-Q	Pkg. of 25
Rigid Plastic	PVT-1157		PVT-1157-Q	

Aluminum Inspection Record Tag



Start Year
2016

PT-1129

- Four-year aluminum tag is made to withstand the inspection period
- 0.020" Aluminum
- Pack of 5

Meets OSHA 29 CFR §1910.157(e)

Loop Strap Tags

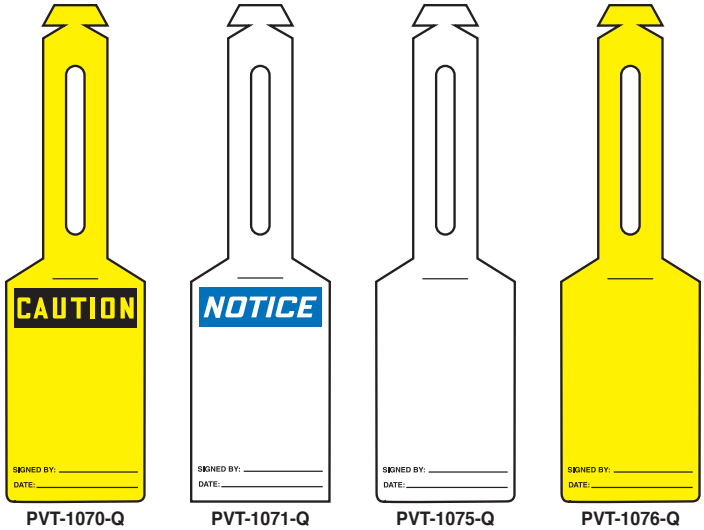
Attach tags by the self-fastening strap for quick marking of hazards.

- Hangs on its own strap by looping the vertical strap around itself
- Flexible 0.014" polyethylene plastic
- 5 1/4" x 3 1/4" tag body with the strap being 1 3/8"W x 6"L x 7/16" wide opening
- Resists grease, dirt, and moisture
- Message is printed on one side only
- Can be written on with permanent marker
- Available in packs of 25





PVT-1072-Q PVT-1073-Q PVT-1074-Q PVT-1069-Q



PVT-1070-Q PVT-1071-Q PVT-1075-Q PVT-1076-Q

Order number of pieces required, in multiples of Standard Package Quantity.

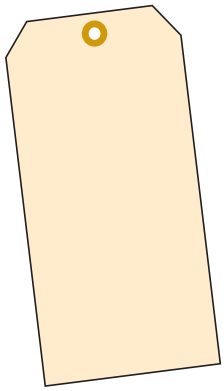
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Blank Tags

Blank tags allow you to write any message in pen, pencil or marker. Use for coding, marking, quick identification, production status or inventory.

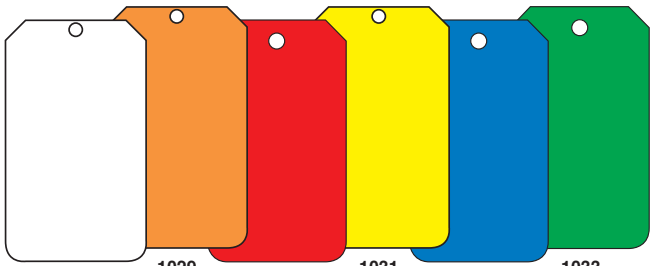
Manila Cardstock Tags

- 0.0013" tags with patch-reinforced 3/16" hole
- Pack of 100



Part No.	Size	Size No.
Hole Only		
PCT-1101-C	4 3/4" x 2 3/8"	5
PCT-1102-C	5 1/4" x 2 5/8"	6
PCT-1103-C	6 1/4" x 3 1/8"	8
Hole with 12" Galvanized Steel Wire		
PCT-1104-C	4 3/4" x 2 3/8"	5
PCT-1105-C	5 1/4" x 2 5/8"	6
PCT-1106-C	6 1/4" x 3 1/8"	8

Premium Blank Tags



Available Materials	Codes	Available Packages	Codes
Poly Cardstock	**PCT-**	Pk. of 5	**(blank)**
Rigid Plastic	**PVT-**	Pk. of 25	**-Q**
Self-Laminating Poly Cardstock	**PSCT-**		
Self-Laminating Rigid Plastic	**PST-**		

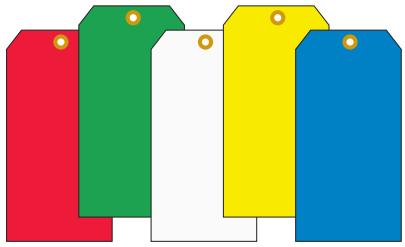
How to Order Tags:



1. Select Material Code: **PCT-**
2. Select Tag Base Part Number: **1030**
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PCT-1030**; **25/Pk – PCT-1030-Q**

Standard Color Blank Cardstock Tags

- 0.0013" coated tags with patch-reinforced 3/16" hole
- Pack of 100



To Order: Add color code after part number: Blue – B-C, Green – G-C, Red – R-C, White – W-C, Yellow – Y-C.
Example: Part No. PCT-1107 + Color Code B-C = PCT-1107B-C

Part No.	Size	Size No.
Plain - with Hole Only		
PCT-1107	4 3/4" x 2 3/8"	5
PCT-1108	5 1/4" x 2 5/8"	6
PCT-1109	6 1/4" x 3 1/8"	8
Hole with 12" Steel Wire		
PCT-1110	4 3/4" x 2 3/8"	5
PCT-1111	5 1/4" x 2 5/8"	6
PCT-1112	6 1/4" x 3 1/8"	8

White Tyvek® Tags

- Lightweight, pressure-bonded fibers
- Flexible 0.075" thick material is abrasion- and tear-resistant
- Withstands moisture, chemicals, and frequent handling
- Patch- and metal-reinforced 3/16" hole is available plain or looped with 12" galvanized steel wire
- Pack of 100



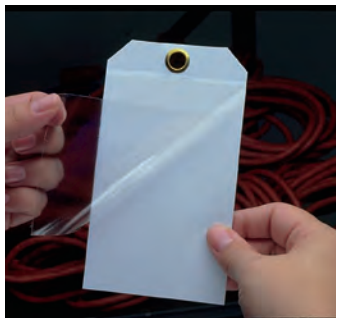
Part No.	Size	Size No.
Hole Only		
PCT-1225-C	4 3/4" x 2 3/8"	5
PCT-1114-C	6 1/4" x 3 1/8"	8
Hole with Galvanized Steel Wire		
PCT-1115-C	4 3/4" x 2 3/8"	5
PCT-1116-C	6 1/4" x 3 1/8"	8

Tyvek® is a registered trademark of DuPont™

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Self-Laminating Safety Tag Carriers

- Cut out paper to fit and insert into the self-laminating carrier allows tags to be resistant to mild chemicals and acids
- Sturdy brass grommet provides extra durability
- Panduit PLT2S (7.40") nylon ties included for quick and easy installation
- Meet OSHA Standard 1910.147 for lockout tag 50 lb. pull force requirement



Part No.	Lamination Style	Tag Size	Pkg. Qty.
PST-4	Front only	3.50" x 5.75"	25
PST-5	Front and back		
PST-1	Front only	3.00" x 2.00"	10
PST-2		3.25" x 5.75"	5

Create Your Own Cardstock Tags

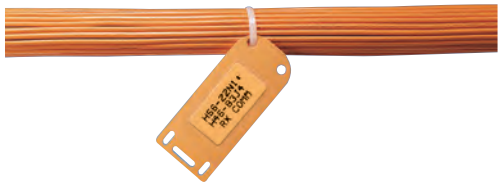
- Create your own economical cardstock tags on ink jet printers
- Economical solution for temporary, indoor tags
- Cardstock is semi-rigid tag with perforation for easy tag separation and punched hole for hanging
- Tags measure 3" x 5"
- 4 tags/sheet; 25 sheets for 100 tags per package
- Can be used with self-laminating safety tag carrier for extra durability



Part No.	Color
SEZ-TAGWH	Red and Black/White
SEZ-TAGOR	Red and Black/Orange
SEZ-TAGY	Red and Black/Yellow

Self-Laminating Cable Marker Holders for Large Cables or Cable Bundles

- Rigid vinyl, self-laminating materials
- Indoor/outdoor rated high quality rugged material resistant to abrasion
- Legend is protected by overlaminate
- Use where adhesives will not work
- Temperature range: 0°F to 176°F (-18°C to 80°C)



Part No.	Color	Width		Height		Tags Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm			
SLCT-IG	Gray	3.00	76.2	1.31	33.3	25	1	4
SLCT-OR	Orange							
SLCT-WH	White							
SLCT-YL	Yellow							
SLCT-3	White	4.00	101.6	0.50	12.7			
SLCT-3OR	Orange							
SLCT-3YL	Yellow							

Attach with Panduit Intermediate or Standard Cross-Section Cable Ties.

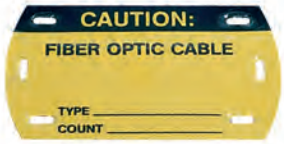
Component Labels for Laser/Ink Jet Printers Supplied on 8.5" x 11" Sheets								
C200X100YJJ	White, polyester label	2.00	50.8	1.00	25.4	–	1000	5000
Component Labels for Thermal Transfer Desktop Printers Supplied on Rolls								
C200X100YJT	White, polyester label	2.00	50.8	1.00	25.4	–	2500	10000
Component Cassettes for Panther™ LS8 Hand-Held Thermal Transfer Printer								
C200X100YJC	White, polyester label, 200/cassette	2.00	50.8	1.00	25.4	–	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

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Self-Laminating Fiber Optic Cable Marker Tags

- Rigid vinyl, self-laminating material
- Indoor/outdoor rated; high quality, rugged material resistant to abrasion; legend is protected by overlaminate; use where adhesives will not work
- Temperature range: 0°F to 176°F (-18°C to 80°C)



Part No.	Legend	Color (Legend/ Background)	Width In.	Width mm	Height In.	Height mm	Tags Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
PST-FO	CAUTION FIBER OPTIC CABLE TYPE_____ COUNT_____	Black/ Yellow	3.50	89.0	2.00	51.0	5	1	40
PST-FOBLNK	BLANK	Yellow							

Order number of packages required in multiples of Std. Pkg. Qty.

Ground Warning Tags

- Rigid polyethylene material
- Indoor/outdoor rated; high quality, rugged material resistant to abrasion; use where adhesives will not work
- Temperature range: -30°F to 250°F (-34°C to 121°C)



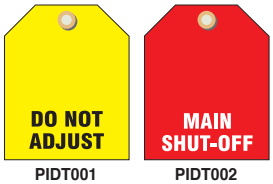
Part No.	Legend	Color (Legend/ Background)	Width In.	Width mm	Height In.	Height mm	Tags Per Pkg.	Std. Pkg. Qty.	Std. Ctn. Qty.
PT-BGND	NETWORK BUILDING GROUND	Green/ Yellow	2.75	70.0	1.38	35.0	100	1	5
PT-GND	WARNING GROUND WIRE DO NOT REMOVE	Black/ Yellow							
PT-TGND	WARNING TELEPHONE CO. REPAIR SERVICE								

Order number of packages required in multiples of Std. Pkg. Qty.

Valve Identifier Plastic Tags

Mark and identify the status of the valve and prevent accidental adjustment.

- 0.015" rigid vinyl
- 2 1/2"H x 2"W with 3/8" metal grommet
- Sold in packs of 5

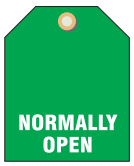


PIDT001

PIDT002



PIDT003



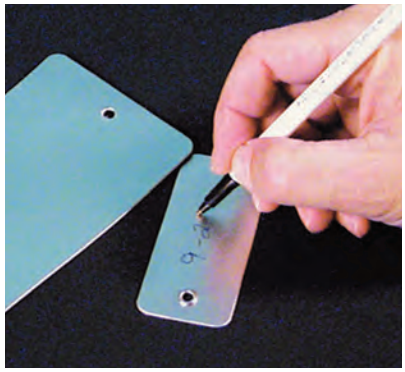
PIDT004



Soft Aluminum Tags

Imprint to leave a lasting impression even if ink wears off.

- 24-gauge (0.020") thick, double-sided soft aluminum laminate over tag board
- 3/16" plain or eyelet hole
- Writing permanently debosses



Plain Hole Part No.	Eyelet Hole Part No.	Size	Std. Pkg. Qty.
PIDT005	PIDT009	3/4" x 3"	Pkg. of 25
PIDT006	PIDT010	1 3/8" x 3 1/8"	
PIDT007	PIDT011	2" x 4"	
PIDT008	PIDT012	3" x 5"	

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Pipe Markers

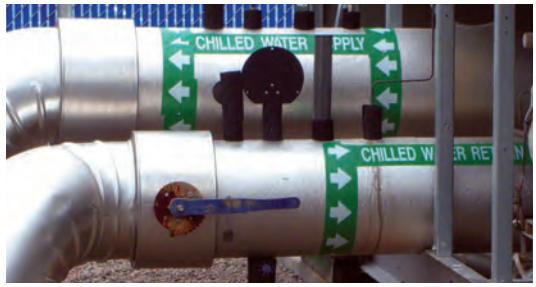
Marking and identification of contents in pipes and piping systems is important to safety and maintenance. Pipe markers are to visibly identify contents, flow directions and hazard classification, thus promoting a safe working environment.

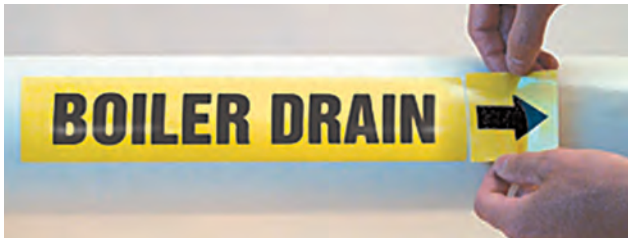
Designed to meet or exceed ASME (ANSI) A13.1-2007 recommendations for size, color and visibility.

Installation recommendations:

- Above or below center visual line of pipe
- Frequent intervals on straight pipe runs
- Close to valves
- Near branches and Ts
- Any change in direction
- Before and after pipe going through walls

CONTENTS OF THE PIPE	COLOR
Fire quenching fluids	WHITE ON RED
Toxic and corrosive fluids	BLACK ON ORANGE
Flammable fluids	BLACK ON YELLOW
Combustible fluids	WHITE ON BROWN
Potable, cooling, boiler feed, and other water	WHITE ON GREEN
Compressed Air	WHITE ON BLUE







Self Stick Vinyl (PPMA)

- 0.004" flexible vinyl marker has UV-resistant polyester overlaminate with high-tack, acrylic adhesive back
- Included arrow provides proper directional flow marking
- Durable, protective gloss surface withstands fading, abrasions, splashes, grease, dust, and dirt
- Service temperature is –20° to 176° F

Snap On Pipe Markers (PPMS)

- Precoiled, heavy gauge 0.020" rigid vinyl plastic is lightweight, yet durable to withstand tough industrial environments
- Fits over pipes with dirty, greasy, or rough surfaces or other less than perfect surfaces
- Easy to remove and reapply
- Service temperature range is –4° to 158° F (not recommended for hot pipes)

Part No.	Legend
1001	ACETONE
1003	ACETYLENE GAS
1005	ACETYLENE GAS
1007	ACID
1009	ACID
1011	ACID VENT
1013	ACID VENT
1015	ACID WASTE
1017	ACID WASTE
1019	AIR
1021	AIR
1023	AIR
1025	AIR RETURN
1027	AIR SUPPLY
1029	ALCOHOL
1031	ALUM
1033	ALUM
1035	AMMONIA
1037	AMMONIA
1039	ARGON
1041	ARGON
1043	ARGON
1045	ASBESTOS FREE
1047	ASBESTOS FREE INSULATION
1049	ASBESTOS INSULATION

Part No.	Legend
1051	BACKWASH
1053	BLOWER AIR
1057	BOILER BLOW DOWN
1059	BOILER BLOW DOWN
1061	BOILER DRAIN
1063	BOILER DRAIN
1065	BOILER FEED
1067	BOILER FEED
1069	BOILER FEED WATER
1071	BOILER FEED WATER
1073	BREATHING AIR
1075	BRINE
1077	BRINE
1079	CARBON DIOXIDE
1081	CARBON DIOXIDE
1083	CAUSTIC
1085	CAUSTIC
1087	CAUSTIC SODA
1089	CAUSTIC SODA
1091	CHEMICAL
1093	CHEMICAL
1095	CHEMICAL FEED
1097	CHEMICAL FEED
1099	CHILLED WATER
1101	CHILLED WATER RETURN

Part No.	Legend
1103	CHILLED WATER SUPPLY
1105	CHLORINE
1107	CHLORINE
1109	CIRCULATING WATER
1111	CITY GAS
1113	CITY GAS
1115	CITY WATER
1117	COLD WATER
1119	COLD WATER DRAIN
1121	COLD WATER RETURN
1123	COLD WATER SUPPLY
1125	COMPRESSED AIR
1127	COMPRESSED AIR
1129	CONDENSATE
1131	CONDENSATE
1133	CONDENSATE DRAIN
1135	CONDENSATE PUMP DISCHARGE
1137	CONDENSATE RETURN
1139	CONDENSATE SUPPLY
1141	CONDENSER WATER
1143	CONDENSER WATER RETURN
1145	CONDENSER WATER SUPPLY
1147	COOLING WATER
1149	COOLING WATER RETURN
1151	COOLING WATER SUPPLY

Part No.	Legend
1153	DEIONIZED WATER
1157	DEIONIZED WATER SUPPLY
1159	DIESEL OIL
1161	DIESEL WASTE OIL
1163	DIESEL WASTE OIL
1165	DISCHARGE
1167	DISTILLED WATER
1169	DOMESTIC
1171	DOMESTIC COLD WATER
1173	DOMESTIC COLD WATER RETURN
1175	DOMESTIC COLD WATER SUPPLY
1177	DOMESTIC HOT WATER
1179	DOMESTIC HOT WATER
1181	DOMESTIC HOT WATER RECIRCULATION
1183	DOMESTIC HOT WATER RECIRCULATION
1185	DOMESTIC HOT WATER RETURN
1187	DOMESTIC HOT WATER RETURN
1189	DOMESTIC HOT WATER SUPPLY
1191	DOMESTIC HOT WATER SUPPLY
1193	DRAIN
1195	DRAIN
1197	DRAIN WATER
1199	DRINKING WATER
1201	EFFLUENT
1203	ELECTRIC TRACED

Order number of pieces required, in multiples of Standard Package Quantity.

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Part No.	Legend
1205	ELECTRIC TRACED
1207	EXHAUST
1209	EXHAUST AIR
1211	FEED
1213	FEED
1215	FILTERED WATER
1217	FILTRATE
1219	FIRE AUTO SPRINKLER
1221	FIRE MAIN
1223	FIRE PROTECTION WATER
1225	FIRE SPRINKLER WATER
1227	FREON
1229	FREON
1231	FRESH WATER
1233	FUEL GAS
1235	FUEL GAS
1237	FUEL OIL
1239	FUEL OIL RETURN
1241	FUEL OIL SUPPLY
1243	FUEL OIL VENT
1245	GAS
1247	GAS
1249	GAS
1251	GASOLINE
1253	GASOLINE
1257	GLYCOL
1259	GLYCOL
1261	GLYCOL
1263	GLYCOL RETURN
1265	GLYCOL RETURN
1267	GLYCOL RETURN
1269	GLYCOL SUPPLY
1271	GLYCOL SUPPLY
1273	GLYCOL SUPPLY
1275	HALON
1277	HEATING
1279	HEATING HOT WATER RETURN
1281	HEATING HOT WATER RETURN

Part No.	Legend
1283	HEATING HOT WATER SUPPLY
1285	HEATING HOT WATER SUPPLY
1287	HEATING RETURN
1289	HEATING SUPPLY
1291	HEATING WATER RETURN
1293	HEATING WATER SUPPLY
1295	HEATING WATER SUPPLY
1297	HIGH PRESSURE AIR
1299	HIGH PRESSURE AIR
1301	HIGH PRESSURE CONDENSATE
1303	HIGH PRESSURE GAS
1305	HIGH PRESSURE GAS
1307	HIGH PRESSURE HOT WATER
1309	HIGH PRESSURE HOT WATER
1311	HIGH PRESSURE NITROGEN
1313	HIGH PRESSURE STEAM
1315	HIGH PRESSURE WATER
1317	HIGH PRESSURE WATER
1319	HIGH PRESSURE NATURAL GAS
1321	HOT
1323	HOT WATER
1325	HOT WATER
1327	HOT WATER RETURN
1329	HOT WATER RETURN
1331	HOT WATER SUPPLY
1333	HOT WATER SUPPLY
1335	HYDRAULIC FLUID
1337	HYDRAULIC FLUID
1339	HYDRAULIC LINE
1341	HYDRAULIC LINE
1343	HYDRAULIC OIL
1345	HYDRAULIC OIL
1347	HYDRAULIC SUPPLY
1349	HYDROCHLORIC ACID
1351	HYDROCHLORIC ACID
1353	HYDROGEN
1357	HYDROGEN
1359	HYDROGEN PEROXIDE

Part No.	Legend
1361	HYDROGEN PEROXIDE
1363	INDUSTRIAL WATER
1365	INERT GAS
1367	INERT GAS
1369	INSTRUMENT AIR
1371	INSTRUMENT AIR
1373	KEROSENE
1375	LAB VACUUM
1377	LAB VENT
1379	LAB WASTE
1381	LIQUID NITROGEN
1383	LOW PRESSURE AIR
1385	LOW PRESSURE CONDENSATE
1387	LOW PRESSURE GAS
1389	LOW PRESSURE GAS
1391	LOW PRESSURE NATURAL GAS
1393	LOW PRESSURE NATURAL GAS
1395	LOW PRESSURE NITROGEN
1397	LOW PRESSURE NITROGEN
1399	LOW PRESSURE STEAM
1401	LOW PRESSURE WATER
1403	LUBE OIL
1405	MAKE-UP WATER
1407	MEDICAL AIR
1409	MEDICAL VACUUM
1411	MEDIUM PRESSURE CONDENSATE
1413	MEDIUM PRESSURE STEAM
1415	MED-PRESSURE STEAM
1417	MILL AIR
1419	MILL WATER
1421	MIXED GAS
1423	NATURAL GAS
1425	NATURAL GAS
1427	NITRIC ACID
1429	NITRIC ACID
1431	NITROGEN
1433	NITROGEN
1435	NITROUS OXIDE

Part No.	Legend
1437	NITROUS OXIDE
1439	NITROUS OXIDE
1441	NON-POTABLE WATER
1443	OIL
1445	OUTSIDE AIR
1447	OVERFLOW
1449	OXYGEN
1451	OXYGEN
1453	OXYGEN
1457	OXYGEN
1459	PEROXIDE
1461	PEROXIDE
1463	PLANT AIR
1465	PLANT WATER
1467	PLUMBING VENT
1469	POLYMER
1471	POLYMER SOLUTION
1473	POTABLE
1475	POTABLE WATER
1477	PROCESS WATER
1479	PROCESS WATER
1481	PROCESS WATER RETURN
1483	PROCESS WATER SUPPLY
1485	PROPANE GAS
1487	PROPANE GAS
1489	PULP
1491	PUMP
1493	PUMPED CONDENSATE
1495	RAINWATER
1497	RAW WATER
1499	REFRIGERANT LIQUID
1501	REFRIGERANT SUCTION
1503	REFRIGERATED LIQUID
1505	REFRIGERATED SUCTION
1507	REFRIGERATION
1509	RETURN
1511	RETURN
1513	RETURN

Self Stick (PPMA)

Size Code	Pipe Diameter	Marker Size	UOM
A	3/4" to 1 1/4"	1" x 8"	Each
B	1 1/2" to 2"	1 1/2" x 8"	
D	2 1/2" to 6"	2 1/2" x 12"	
H	8" to 10"	4" x 24"	

Snap On Pipe Markers (PPMS)

Size Code	Pipe Diameter	Marker Size	UOM
A	3/4" to 1 1/4"	6" x 8"	Each
B	1 1/2" to 2"	9" x 8"	
C	2 1/4" to 3"	14" x 12"	
E	3 1/4" to 5"	19" x 12"*	
F	5 1/4" to 6"	25" x 12"*	

*Have self-adhesive leading edge for secure fit

How to Order Pipe Markers:

1. Select Material Code: Self Stick – **PPMA**
2. Select Pipe Marker Base Part Number: **1001**

ACETONE

3. Select Size Code: 3/4" to 1 1/4" – **A**
4. Combine Codes in Specific Order for Complete Part Number: **PPMA1001A**

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Part No.	Legend
1515	RETURN
1517	ROOF DRAIN
1519	SALT WATER
1521	SANITARY DRAIN
1523	SANITARY SEWER
1525	SANITARY VENT
1527	SANITARY WASTE
1529	SEAL WATER
1531	SERVICE AIR
1533	SERVICE WATER
1535	SEWAGE
1537	SEWER
1539	SLUDGE
1541	SOAP
1543	SODIUM HYDROXIDE
1545	SODIUM HYDROXIDE
1547	SODIUM HYPOCHLORITE
1549	SODIUM HYPOCHLORITE
1551	SOFT WATER

Part No.	Legend
1553	SOLVENT
1557	SPENT ACID
1559	SPENT ACID
1561	SPRINKLER
1563	SPRINKLER FIRE
1565	SPRINKLER WATER
1567	STEAM
1569	STEAM RETURN
1571	STEAM SUPPLY
1573	STORM DRAIN
1575	STORM SEWER
1577	STORM WATER
1579	SULFUR DIOXIDE
1581	SULFUR DIOXIDE
1583	SULFURIC ACID
1585	SULFURIC ACID
1587	SUMP PUMP DISCHARGE
1589	SUPPLY
1591	SUPPLY

Part No.	Legend
1593	SUPPLY
1595	TANK DRAIN
1597	TEMPERED WATER
1599	TEMPERED WATER
1601	TOLUENE
1603	TOLUENE
1605	TOWER WATER
1607	TOWER WATER RETURN
1609	TOWER WATER SUPPLY
1611	TREATED WATER
1613	UTILITY WATER
1615	UTILITY WATER
1617	VACUUM
1619	VACUUM
1621	VENT
1623	VENT
1625	WARM WATER
1627	WASTE
1629	WASTE WATER

Part No.	Legend
1631	WASTE WATER
1633	WATER
1635	WATER
1637	WELL WATER
1639	WHITE LIQUOR
1641	WHITE LIQUOR
1643	WHITE LIQUOR
1645	
1647	
1649	
1651	
1653	
1657	
1659	
1661	
1663	
1665	
1667	
1669	

Self Stick (PPMA)

Size Code	Pipe Diameter	Marker Size	UOM
A	3/4" to 1 1/4"	1" x 8"	Each
B	1 1/2" to 2"	1 1/2" x 8"	
D	2 1/2" to 6"	2 1/2" x 12"	
H	8" to 10"	4" x 24"	

Snap On Pipe Markers (PPMS)

Size Code	Pipe Diameter	Marker Size	UOM
A	3/4" to 1 1/4"	6" x 8"	Each
B	1 1/2" to 2"	9" x 8"	
C	2 1/4" to 3"	14" x 12"	
E	3 1/4" to 5"	19" x 12"*	
F	5 1/4" to 6"	25" x 12"*	

*Have self-adhesive leading edge for secure fit

How to Order Pipe Markers:

1. Select Material Code: Self Stick – **PPMA**
2. Select Pipe Marker Base Part Number: **1523** — SANITARY SEWER
3. Select Size Code: 3/4" to 1 1/4" – **A**
4. Combine Codes in Specific Order for Complete Part Number: **PPMA1523A**

Order number of pieces required, in multiples of Standard Package Quantity.

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Color Banding Pipe Marking Tapes

Variety of colors are ideal for coding pipes.

- 0.005" tapes with self-adhesive back, no liner
- Service temperature range -20° to 140°F
- Available in 1", 2" and 3" widths
- 108-ft. rolls



Available colors with color code:
Red – RED, Green – GRN, Blue – BLU, Gray – GRY, Brown – BRN, Black – BLK, Yellow – YEL, Orange – ORN, White – WHT, Purple – PUR

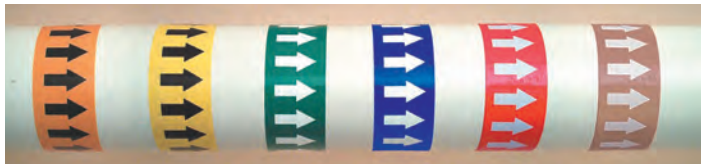
To Order: Add color code after part number.
Example: Part No. PFM1X36 + Color Code YEL = PFM1X36YEL

Part No.	Size	UOM
PFM1X36	1" x 108-ft.	Roll
PFM2X36	2" x 108-ft.	
PFM3X36	3" x 108-ft.	

Directional Flow Arrow Tapes

Provide 360° visibility for flow direction, with repeated arrows on the tape's length.

- 0.006" self-adhesive vinyl
- Available in 1", 2" and 4" widths
- 54-ft. and 108-ft. rolls



Available colors with color code:
Black/Yellow – BY, Green/White – GW, Blue/White – BLW, Red/White – RW, Black/Orange – BO, White/Brown – WBR

Meets ASME A13.1, 3.1

To Order: Add color code after part number.
Example: Part No. PPMR1X54 + Color Code BY = PPMR1X54BY

Part No.	Size	UOM	Part No.	Size	UOM
PPMR1X54	1" x 54-ft.	Roll	PPMR1X108	1" x 108-ft.	Roll
PPMR2X54	2" x 54-ft.		PPMR2X108	2" x 108-ft.	
PPMR4X54	4" x 54-ft.		PPMR4X108	4" x 108-ft.	

Roll Tape Pipe Markers

Easily mark pipes quickly at various locations along a piping system.

- 72 identical legends per roll, with perforations between each length
- Use in continuous lengths, or tear at perforations
- 0.006" vinyl with protective laminate surface
- Peel-off liner with self-adhesive back applies to smooth, clean, dry surface
- Service temperature is -20° to 140°F
- Available in 1" x 54-ft. or 2" x 54-ft. rolls



Roll Tape Pipe Marker & Directional Flow Arrow Tapes shown.

Part No.	Legend
PPMR0102	AIR
PPMR0101	AIR
PPMR0144	AMMONIA
PPMR0145	ARGON
PPMR0103	BOILER FEED
PPMR0146	CAUSTIC
PPMR0104	CHILLED WATER
PPMR0147	CHILLED WTR RTN
PPMR0148*	CHILLED WTR SPLY
PPMR0149	CITY GAS
PPMR0150	CITY WATER
PPMR0151	COLD WATER
PPMR0105*	COLD WATER RTN
PPMR0106*	COLD WTR SUPPLY
PPMR0152	COMPRESSED AIR
PPMR0153	COMPRESSED AIR

Part No.	Legend
PPMR0154	CONDENSATE
PPMR0155	CONDENSATE RETURN
PPMR0108	DEIONIZED WATER
PPMR0109*	DOMESTIC COLD WTR
PPMR0110	DOM HOT WATER
PPMR0112	DRAIN
PPMR0111*	FIRE PROTECT WATER
PPMR0113	GAS
PPMR0114	GLYCOL
PPMR0116	HI PRESSURE AIR
PPMR0117*	HI PRESSURE STEAM
PPMR0118	HOT WATER
PPMR0119	HOT WATER RETURN
PPMR0120	HOT WATER SUPPLY
PPMR0115	MIXED GAS
PPMR0121	NATURAL GAS

Part No.	Legend
PPMR0122	NITROGEN
PPMR0123*	NON POTABLE WATER
PPMR0124	OIL
PPMR0125	OXYGEN
PPMR0126	PLANT AIR
PPMR0127*	POTABLE WATER
PPMR0128	PROPANE GAS
PPMR0129	RAW WATER
PPMR0130	SANITARY DRAIN
PPMR0131	SANITARY SEWER
PPMR0132	SPRINKLER FIRE
PPMR0133	SPRINKLER WATER

Part No.	Legend
PPMR0136	STEAM
PPMR0134	STEAM RETURN
PPMR0135	STEAM SUPPLY
PPMR0137	STORM DRAIN
PPMR0138	VACUUM
PPMR0139	VACUUM
PPMR0140	VENT
PPMR0141	WASTE WATER
PPMR0143	WATER
PPMR0142	WATER

*Legends for 2" x 9" marker size will be abbreviated for space

To Order: Add size code after part number.
Example: Part No. PPMR0102 + Size Code B = PPMR0102B

Size Code	Pipe Diameter	Roll Size	Marker Size	Letter Height	UOM
B	Up to 2"	1" x 54-ft.	1" x 9"	3/4"	Roll
H	Up to 6"	2" x 54-ft.	2" x 9"	1 1/4"	

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Roll Form Pipe Markers

Wrap around virtually any size pipe when you have multiple pipes or pipes of unknown sizes.

- Unroll, measure, and easily cut to length on-site for proper fit
- 0.004" gloss, overlaminated poly vinyl marker wraps to adhere to itself
- High-tack, acrylic adhesive back stays on dirty, greasy, and rusty pipes
- Legend and arrow repeated, upright and upside-down, for universal direction and visibility
- Service temperature is -20° to 140°F
- Available 8" x 30-ft. or 12" x 30-ft. in rolls



Part No.	Legend
PPMR0028	AIR
PPMR0029	ARGON
PPMR0001	ASBESTOS FREE
PPMR0030	CARBON DIOXIDE
PPMR0002	CHLORINE
PPMR0003	CITY WATER
PPMR0004	COLD WATER
PPMR0006	COMPRESSED AIR
PPMR0005	COMPRESSED AIR
PPMR0007	CONDENSATE
PPMR0008	CONTAINS ASBESTOS
PPMR0009	DOMESTIC COLD WATER
PPMR0010	DRAIN

Part No.	Legend
PPMR0011	FIRE PROTECTION WATER
PPMR0031	FIRE SPRINKLER WATER
PPMR0012	GAS
PPMR0013	HOT WATER
PPMR0014	LOW PRESSURE STEAM
PPMR0015	NATURAL GAS
PPMR0016	NON-POTABLE WATER
PPMR0032	OXYGEN
PPMR0017	OXYGEN
PPMR0018	PLANT AIR
PPMR0019	POTABLE WATER
PPMR0020	PROCESS WATER
PPMR0021	RETURN

Part No.	Legend
PPMR0022	SPRINKLER FIRE
PPMR0023	SPRINKLER WATER
PPMR0024	STEAM
PPMR0025	VACUUM
PPMR0027	WATER
PPMR0026	WATER

To Order: Add size code after part number.
Example: Part No. PPMR0029 + Size Code H = PPMR0029H

Size Code	Pipe Diameter	Roll Size	Letter Height	UOM
B	Up to 2"	8" x 30-ft.	3/4"	Roll
H	Up to 6"	12" x 30-ft.	1 1/4"	

IIAR Ammonia Pipe Markers



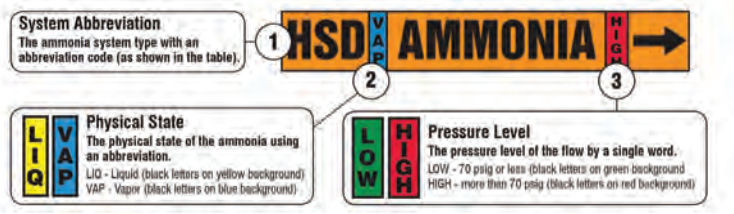
Meets IIAR guidelines for proper pipe marking as specified in Bulletin No. 114.

Identify Ammonia refrigeration piping and system components.

- 0.004" flexible vinyl, self-sticking markers have high-tack adhesive backed with liner
- One legend with directional flow arrows on each end to cut off for proper placement
- Glossy UV-resistant surface withstands dust, dirt and grease
- Service temperature range is -20° to 176°F
- Install onto clean smooth pipe surface

To Order: Add size code after part number.
Example: Part No. PPMA3001 + Size Code A = PPMA3001A

Size Code	Pipe Diameter	Marker Size	UOM
A	3/4" x 1 1/4"	1" x 11"	Each
B	1 1/2" x 2"	1 1/2" x 15 7/8"	
C	2 1/2" x 6"	2 1/2" x 23 5/8"	
D	8" x 10"	3 1/2" x 33 1/2"	



Self Stick Part No.	System	System Abbreviation	Physical State	Pressure Level
PPMA3001	Booster Discharge	BD	VAP	LOW
PPMA3002	Condenser Drain	CD	LIQ	HIGH
PPMA3003	Defrost Condensate	DC	LIQ	
PPMA3004	Hot Gas	HG	VAP	HIGH
PPMA3005	Hot Gas Defrost	HGD		
PPMA3006	High Pressure Liquid	HPL	LIQ	HIGH
PPMA3007	High Stage Discharge	HSD	VAP	HIGH
PPMA3008	High Stage Suction	HSS		LOW
PPMA3009	High Temperature Recirculated Liquid	HTRL	LIQ	LOW
PPMA3010	High Temperature Recirculated Suction	HTRS	LIQ/ VAP	
PPMA3011	Liquid Injection Cooling	LIC	LIQ	HIGH
PPMA3012	Low Stage Suction	LSS	VAP	LOW
PPMA3013	Low Temperature Recirculated Liquid	LTRL	LIQ	
PPMA3014	Low Temperature Recirculated Suction	LTRS	LIQ/ VAP	
PPMA3015	Low Temperature Suction	LTS	VAP	
PPMA3016	Relief Vent	RV	—	—

Order number of pieces required, in multiples of Standard Package Quantity.

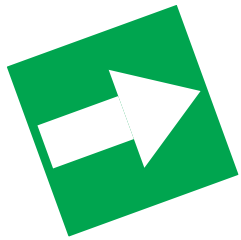
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Duct Markers



Mark air flow and its equipment purpose in duct work systems.

- Single legend printed on poly overlaminated self-stick vinyl
- High-tack adhesive back
- Available in two sizes



Part No.	Legend
PPMA41	EXHAUST
PPMA42	EXHAUST AIR
PPMA43	INTAKE AIR
PPMA44	OUTSIDE AIR

Part No.	Legend
PPMA45	RELIEF
PPMA46	RELIEF AIR
PPMA47	RETURN AIR
PPMA48	SUPPLY AIR

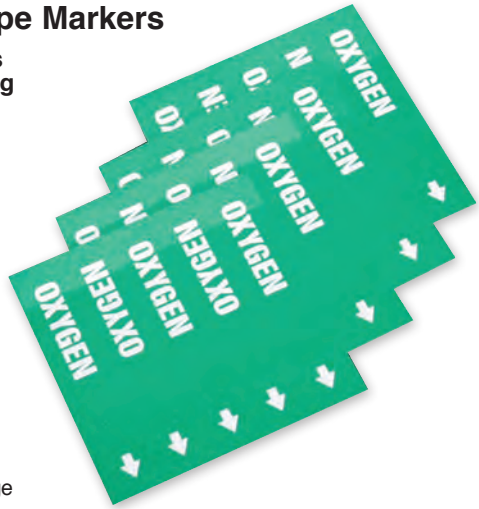
Available colors with color code:
Black/Yellow – BY, White/Green – WG, White/Blue – WBL

To Order: Add color code, then size code after part number.
Example: Part No. PPMA41 + Color Code BY + Size Code D = PPMA41BYD

Size Code	Pipe Diameter	Marker Size	Arrow Size	Letter Height	UOM
D	Up to 6"	2 1/2" x 12"	2 1/2" x 2 1/2"	1 1/4"	Each
H	Up to 10"	4" x 24"	4" x 4"	2 1/2"	

Medical Gas Pipe Markers

Identify the contents of medical gas piping systems.



- 0.004" gloss vinyl, 3" x 3" marker with legend repeated five times, upright and upside-down for universal fit and visibility
- Adhesive backed and peel-off liner
- Adhere to pipes up to 3/4" OD size
- Service temperature is -20° to 140°F
- 20 markers per package

Part No.	Legend
PPMA4001	CARBON DIOXIDE
PPMA4002	CYCLOPROPANE
PPMA4012	EVAC
PPMA4003	HELIUM
PPMA4010	INSTRUMENT AIR
PPMA4013	LABORATORY AIR
PPMA4004	MEDICAL AIR
PPMA4005	MEDICAL VACUUM

Part No.	Legend
PPMA4006	NATURAL GAS 2 PSI
PPMA4007	NITROGEN
PPMA4008	NITROUS OXIDE
PPMA4009	OXYGEN
PPMA4011	WAGD

Size	Std. Pkg. Qty.
3" x 3"	20

Meets NFPA 99C-Section 4-3.5.4.1. and CGA Pamphlet C-9 Section 4.1 color requirements

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Just shutting down or disconnecting equipment is not enough…Lockout/Tagout keeps employees safe by making it inoperable. Comply with OSHA Regulations and LOCK IT OUT!

Before repairs, servicing, maintenance, or set-up of machines and equipment can begin, prevent the unexpected — the accidental start-up!

Procedures, devices, and personnel must be set in place to prevent the serious injury or death that could occur when someone thinks something is safely off. To ensure machines and equipment remain inoperable means establishing a "program consisting of energy control procedures, employee training, and periodic inspections..." as described in the OSHA standard. The standard also identifies products used for achieving these goals, such as lockout and tagout devices.

Highlighted here are seven steps to creating an effective lockout/ tagout program.

☑ 1. Be Aware of the Lockout Regulations

Become familiar with the federal regulations known as The Control of Hazardous Energy (Lockout/Tagout).

☑ 2. Develop List of Machinery & Equipment

Survey your facility for all machinery and equipment that have the potential for requiring lockout.

☑ 3. Identify & Mark Energy Sources & Lockout Points

Locate and document start-up areas of energy sources, such as:

- Mechanical
- Electrical
- Hydraulic
- Thermal
- Pressure
- Process Control
- Stored Energy (gravity, springs)

☑ 4. Determine the Lockout Controls

Identify and document the necessary devices that isolate and lock out energy sources, and secure them for on-site use. Standardize the devices for various functions for proper identification.

☑ 5. Set up Lockout Training & Procedure Program

Develop, standardize, and document the lockout process for each energy source. Identify employees' level of involvement in the program – those that are made aware, affected, and to perform the lockout procedures. Accomplish this through comprehensive training programs and certifications.

☑ 6. Implement the Lockout Program

Initiate and enact the lockout/tagout program in accordance with the training procedures. Post reminders and have the necessary lockout/tagout devices readily available.

☑ 7. Review Lockout Program

Identify and document changes to existing procedures and new energy sources that require lockout. Make corrections, changes, and additions to the program. Conduct periodic review of lockout procedures (required at least annually) to ensure they are up to date and requirements are being met.

Post signs, apply labels and tags…

…to warn and identify energy source areas and points requiring shut-down and lockout/tagout procedures.

OSHA® 29 CFR § 1910.147… The Control of Hazardous Energy (Lockout/Tagout) ...requires the employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices, and to otherwise disable machines or equipment to prevent unexpected energization, start-up or release of stored energy in order to prevent injury to employees.

We offer solutions to help meet your lockout/tagout requirements and make your employees aware of the energy source hazards found throughout your facility. Look for products to meet your specific lockout needs on the following pages - ranging from lockout devices to training materials. Call us for consultation and on-site assessment of your lockout/tagout requirements.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Circuit Breaker Lockout System

OSHA (Occupational Safety and Health Administration) mandates that all energy sources be turned off and locked out to protect employees from injuries caused by the accidental startup of equipment under repair and service. To support compliance with OSHA 1910.147, Panduit offers a complete line of high quality, Circuit Breaker Lockout Devices to ensure that electrical energy sources are isolated for optimal work place safety. These Circuit Breaker Lockouts are part of an extensive line of innovative safety devices designed by Panduit to protect employees from risks associated with all forms of hazardous energy, while meeting safety and regulatory requirements.

PowerLOK™ Circuit Breaker Lockout Devices

Panduit's new PowerLOK™ Circuit Breaker Lockout Devices include many innovative features to provide a versatile, easy to use lockout/tagout device. These devices can be applied to single or multi-pole circuit breakers (such as 120/277V breakers) to prevent the breaker from being turned back on; for safe performance of maintenance or service in accordance with lockout/tagout procedures.



PSL-PCB



PSL-PCBNT

- Two metal contacts
- Fits single and multi-pole circuit breakers
- Two-position padlock design
- Two-piece construction

Part No.	Description	Std. Pkg. Qty.
PSL-PCB	PowerLOK™ circuit breaker lockout	1
PSL-PCB-V		5
PSL-PCBNT	PowerLOK™ "No Tool" circuit breaker lockout	1
PSL-PCBNT-V		5

Universal & I-LINE™ Circuit Breaker Lockout Devices

- Quickly locks out circuit breakers (such as 120/277V breakers); ideal for industrial and harsh applications
- PSL-CB and PSL-CBIL can be installed using a screwdriver
- PSL-CBNT and PSL-CBILNT can be installed by hand, with no tool required



PSL-CBNT



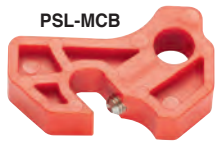
PSL-CBILNT

Part No.	Description	Std. Pkg. Qty.
PSL-CB	Universal circuit breaker lockout	1
PSL-CB-V		5
PSL-CBNT	"No Tool" Universal circuit breaker lockout	1
PSL-CBNT-V		5
PSL-CBIL	Circuit breaker lockout device for use with Square D I-LINE™/Federal Pacific (FPE) circuit breakers	1
PSL-CBILNT	"No Tool" circuit breaker lockout for use with Square D I-LINE™/Federal Pacific (FPE) circuit breakers	
PSL-CBKIT	Circuit breaker lockout kit (1 each PSL-CBL, PSL-CBNT, PSL-CBILNT)	
PSL-CB-3PC	(3) PSL-CB universal circuit breaker lockout	

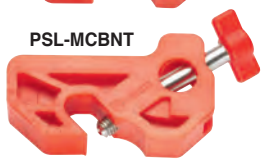
I-LINE® is a registered trademark of Square D Company®.

Miniature Circuit Breaker Lockout Devices

- Quickly locks out miniature circuit breakers commonly used in industrial automation and motor control
- On the PSL-MCBNT, multiple padlock orientations allow adjacent circuit breakers to be locked out individually
- PSL-MCB can be installed using a screwdriver
- PSL-MCBNT can be installed by hand with no tool required



PSL-MCB



PSL-MCBNT

Part No.	Description	Std. Pkg. Qty.
PSL-MCB	Universal miniature circuit breaker lockout	1
PSL-MCB-V		5
PSL-MCBNT	"No Tool" miniature circuit breaker lockout	1
PSL-MCBNT-V		5

Large Handle Circuit Breaker Lockout Device

- Quickly locks out large molded-case circuit breakers (such as 480/600V breakers)
- Can be installed by hand, with no tool required

Part No.	Description	Std. Pkg. Qty.
PSL-CBL	Large handle circuit breaker lockout	1
PSL-CBL-V		5



PSL-CBL

Circuit Breaker Directory Sign



- Eliminate the guesswork when identifying power sources – a must for lockout/tagout compliance
- Adhesive paper sign designed to provide clear identification of circuit breaker connections, list up to 40 circuits plus add the part number to the index section

Part No.	Description	Std. Pkg. Qty.
PES-S1	Circuit breaker directory sign, paper (adhesive), 13.00" x 5.50" (330.2mm x 139.7mm), 1 sign, 5 signs/pack, red/white	1

Lockout Warning Strip Label



- Write-on area for adding your own warning message
- Made of vinyl cloth material that allows label to be removed easily after repairs are completed
- Features the international prohibition symbol for "Do Not Throw Switch"

Part No.	Description	Std. Pkg. Qty.	Std. Pkg. Ctn.
PSL-CBWL	0.54" x 4.84" (13.7mm x 122.9mm) warning label, 60 markers per book, red/white	1	10

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Lockout Hasps

These devices provide the ideal solution when procedures require multiple workers on locked-out equipment.
Workers can be assigned a padlock (sold separately) with shackle diameter up to 9/32" to attach to the hasp before starting their task. Ensure the energy source stays locked out — with multiple workers' padlocks in the holes of the closed hasp. Once each worker completes their task, they remove their padlock. The hasp cannot be removed until the last padlock is removed.

- Energy sources can be locked out quickly and easily by more than one worker for group lockout applications
- Heavy duty hasps with tamper-resistant designs to deter vandalism
- Variety of lockout hasp styles and sizes to accommodate a wide range of lockout applications

Part No.	Part Description	Max. No. Locks	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-MLD	Multiple lockout device; includes lockout hasp and 6.0' (1.8m) vinyl coated galvanized steel cable with loophole	6	1	20
PSL-MLDH-X	Multiple lockout device (hasp only)		10	—
PSL-1	Hasp with 1.00" (25.40mm) diameter jaw and overlapping tabs	6	12	144
PSL-1.5	Hasp with 1.50" (38.10mm) diameter jaw and overlapping tabs			
PSL-1A	Hasp with 1.00" (25.40mm) diameter jaw			
PSL-1.5A	Hasp with 1.50" (38.10mm) diameter jaw	6	12	48
PSL-NC3	Non-Conductive lockout hasp with 3.00" (76.2mm) shackle		1	20
PSL-HD1	Heavy duty hasp with 1.00" x 1.00" (25.40mm x 25.40mm) clearance	5	12	—
PSL-HD3	Heavy duty hasp with 1.00" x 3.00" (25.40mm x 76.00mm) clearance	7		
PSL-1013	Hasp with 1.00" (25.40mm) diameter jaw. Non-sparking aluminum	6	1	—
PSL-1014	Hasp with 1.50" (38.10mm) diameter jaw. Non-sparking aluminum			


PSL-MLD


PSL-1


PSL-1.5


PSL-1A
PSL-1013


PSL-1.5A
PSL-1014

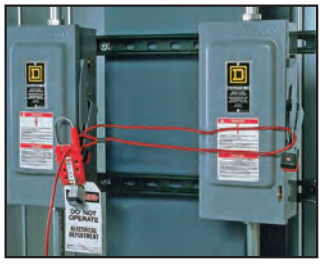

PSL-NC3

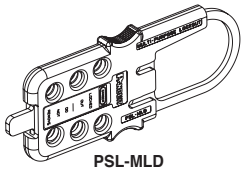

PSL-HD1


PSL-HD3

Multiple Lockout Device

- Device can be used alone as a lockout hasp or with provided 0.19" (4.8mm) diameter cable to lockout electrical disconnects, gate valves, or large cumbersome devices
- Compact and easy to install
- Constructed of rugged polycarbonate and stainless steel for industrial and harsh applications
- Vinyl coated galvanized steel cable up to 176°F (80°C); nylon coated galvanized steel cable up to 230°F (110°C)




PSL-MLD

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-MLD	Multiple lockout device; includes lockout hasp and 6.00' (1.8m) vinyl coated galvanized steel cable with loophole	1	20
PSL-MLDT	Multiple lockout device; includes lockout hasp and 6.00' (1.8m) nylon coated high temperature rating galvanized steel cable with loophole		
PSL-MLDH-X	Multiple lockout device (hasp only)	10	—
PSL-MLDC	6.00' (1.8m) vinyl coated galvanized steel cable with loophole (cable only)	1	5
PSL-MLDCT	6.00' (1.8m) nylon coated high temperature rating galvanized steel cable with loophole (cable only)		
PSL-MLDC200	200.00' (61.0m) vinyl coated galvanized steel cable on roll without loophole (cable only)	1	—
PSL-MLDC200T	200.00' (61.0m) nylon coated high temperature rating galvanized steel cable on roll without loophole (cable only)		
PSL-MLD-CRIMP	Additional crimps for creating cable loopholes, ten crimps per package	10	50
PSL-MLD-TOOL	Tool for installing crimps on custom-length cables using the PSL-MDLC200	1	—

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Aluminum Tag Hasps

Lock out more equipment with the large reach hasp made to withstand tough and abusive environments.

- Scissor-style hasp comprised of two high-strength 0.090" thick red anodized aluminum plates
- Accommodates up to six padlocks (sold separately)
- Crossover jaw ends prevent prying and tampering
- Get true 1 1/2" round reach with the full jaw opening
- Measures 7"H x 2 3/4"W
- Bold, contrasting red/white/black lockout hazard message labels on both sides — with space to write in necessary information
- Red octagon shape reinforces lockout status and conveys STOP



Crossover jaw prevents prying and tampering.



PSL-1021



PSL-1022



Back

English, Spanish, and French labels included.

UOM
Each

Double-Cross Aluminum Tag Hasps

Lock out equipment with large reach, pry-resistant hasps.

- Made of two red anodized, 0.090" aluminum plates
- Double-crossed, octagon-shaped jaws are offset to cross over one another when closed, preventing the hasp from being easily pried apart
- Openings provide optimal reach - 1 3/4" dia. on one end and 3/4" dia. on the other
- Measures 7"H x 3 1/8"W (2 3/4" in the body) with hazard message labels on both sides
- Red octagon shape reinforces lockout status and conveys STOP





PSL-1023



PSL-1024



Back

English, Spanish, and French labels included.

UOM
Each

Tag Hasp

Change out, insert, and secure a tag for each lockout situation with the Tag Hasp.

- 5 1/4" x 3" hasp fits in the palm of the hand
- Lightweight, all-dielectric plastic design
- Stop-shaped octagon front panel contains changeable Tab Tag (sold separately below)

Easy to use:

- Insert lockout tag over the top hole inside the front panel
- Close down the 2 1/4" octagon panel to hold the tag in place
- Insert the open end of the 1/4" wide loop to lockout the device
- Hasp hangs by the 1 3/8" x 2 3/4" closed oval loop
- Secures with up to three padlocks (sold separately)
- Red octagon shape reinforces lockout status and conveys STOP



Shown with padlocks, tab tag, sold separately

Part No.	UOM
PSL-1020	Each



Open position to insert tag



Loop end brace and secure in place by padlock

Tab Tags

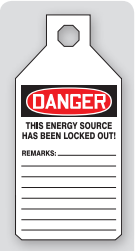
- Unique tag design fits over special octagon-shaped tab
- For use with Tag Hasp (above)
- Tag is secured when the device is in the locked position
- Show the full face of the tag at all times
- Tags measure 4 1/2" x 2 1/8"
- Durable, 0.015" rigid plastic material
- Pack of 25



PSL-1018



PSL-1019



Back

Std. Qty. Pkg.
25

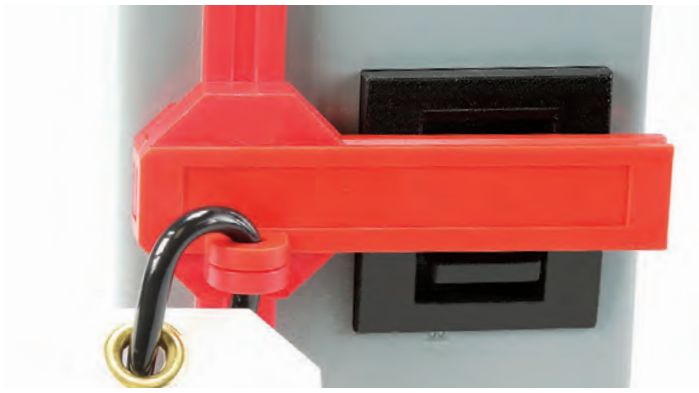
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Large Handle Lever Lockout

Lock out large handle or lever circuit breakers.

- Also works on up to three individual circuit breakers, including a variety of flip-lever switches
- Constructed of red dielectric ABS plastic and incorporates the octagon shape to convey STOP
- Consists of three parts: Mounting Rail, Slide Set and Stop Bar
- Installs without drilling using 3M™ VHB™ industrial bonding tape (included)*
- Additional mounting rails available for use on multiple panels
- Dimensions: Mounting Rail: 5"L x 3/4"W x 1/4"D, Slide Set: 2"L x 2"W x 1 3/8"D, and Stop Bar: 5"L x 1"W x 1"D
- Padlock and tag sold separately

*For best adhesion, ideal bond time is 24 to 72 hours prior to lockout application



Part No.	Description	UOM
PSL-1006	Large Handle Lever Lockout	Each
PSL-1007	Additional Mounting Rails, 5" L	

VHB™ is a registered trademark of 3M™



Position Mounting Rail



Secure Slide Set



Slide Stop Bar into position over breaker

Cinch Cable Lockout

Universal spooling cable locks out multiple devices at one time.

- Unique, compact internal spooling feature
- Lock out multiple devices quickly, neatly, and easily
- Simply extend and loop the 6-ft. nylon-coated steel cable through several devices to lock them out; then insert the cable end back into the device to cinch tight
- When cable is cinched tight, device can then be secured with a padlock (sold separately)
- Durable plastic, octagon-shaped device measures 3 1/2" x 4 1/4" x 1 1/4"
- When finished, spool the cable back inside the device for neat, easy storage
- Octagon shape reinforces lockout status and conveys STOP

Part No.	Description	UOM
PSL-1008	Cinch Lockout with 6-ft. cable	Each
PSL-1016	15-ft. cable (separate)	



Internal cable spooling feature for storage.



Funnel-shaped cable feeder for quick placement.

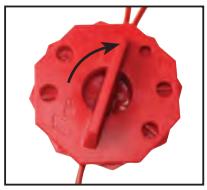


Order number of pieces required, in multiples of Standard Package Quantity.

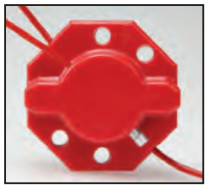
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Twist & Turn Cinch Cable Lockout





Turn the hasp halves to cinch cable.



Cinch closed position with holes aligned.

Run the cable through various devices; then, with a quick twist of the hasp, cinch the cable to prevent unauthorized access.

- Easy-to-use cable and cinch lockout hasp solution
- Polycarbonate, compact hasp is comprised of two 3" dia. x 1 1/2" thick rotating halves with 6-ft. red plastic-coated steel cable
- Visible red octagon shape reinforces the lockout situation

Part No.	UOM
PSL-1017	Each

Electrical Panel Lockout

Prevent accidental shutdowns of critical equipment by keeping unauthorized persons from accessing electrical circuit breaker panels.

- Telescoping lockout bar attaches to breaker box cover screws
- Prevents opening of breaker box cover in order to lock out all breakers within the same breaker box
- For use on 14"-20" inch wide breaker boxes
- Constructed of sturdy, non-conductive material and installs in seconds



Part No.	Description
PSL-1033	Electrical Panel Lockout Bar Only, 13"L x 1"W x 1"H, Expands up to 20"L

Gate Valve Lockout Devices



- Gate valves regulating hydraulic, pneumatic, and chemical energy can be locked out quickly and easily
- Accommodates valve handles ranging from 1.00 inch (25.40mm to 13.00 inches (330.20mm) in diameter
- Constructed of rugged polypropylene providing strength, durability, and added security
- Secure with padlock and tag (sold separately)

Part No.	Fits Valve Handle Diameter	Size	UOM
PSL-V2A	1.0" – 2.5"	3.5" x 1.5"	Each
PSL-V6A	2.5" – 6.5"	7.0" x 2.0"	
PSL-V9	6.5" – 10.0"	10.5" x 2.5"	
PSL-V13	10.0" – 13.0"	14.5" x 3.0"	

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Ball Valve Lockouts



English, Spanish, and French labels included.

Stop valves from being turned with unique gull-wing design ball valve lockout.


Wingspan halves open and close

- Quickly and simply secure over any closed ball valve handle
- Secure with padlock (sold separately)
- Bright red, plastic device works with ball valve handles either perpendicular or parallel to pipe
- Includes red “Danger Locked Out” label
- Red octagon shape reinforces lockout status and conveys STOP

Part No.	Fits Ball Valve	Fits Handle	Overall Size	UOM
PSL-1059	3/8" – 1 1/4"	up to 5/8"W x 1/4" thick	3 1/8" x 4 1/2" x 4 1/2"	Each
PSL-1058	1 1/2" – 2"	up to 1 1/2"W x 1/2" thick	4 1/2" x 5 2/3" x 5 2/3"	

Labels

Additional adhesive labels are available each in ANSI or APWA colors: Red – RED, Yellow – YEL, Blue – BLU, Green – GRN, Purple – PUR.



Part No.	Fits Ball Valve	UOM
PSL-1065	3/8" – 1 1/4"	Each
PSL-1070	1 1/2" – 2"	

To Order: Add color code after part number.
Example: Part No. PSL-1065 + Color Code RED = PSL-1065RED

Pneumatic Energy Lockout Device



- Pneumatic energy devices can be locked out quickly and easily without costly tool modifications or inconvenient in-line valves
- When installed on the male pneumatic fitting, prevents the ability to engage into the female fitting
- Universal compact design makes the pneumatic lockout device easy to transport
- Five openings install on almost any fitting, even in tight spaces
- Rugged stainless steel construction offers superior strength, durability, added security and corrosion resistance
- Overall dimensions are 3.5" (88.9mm) diameter x 0.10" (2.54mm) thick

Part No.	UOM
PSL-PEL	Each

Versatile Pneumatic Lockout

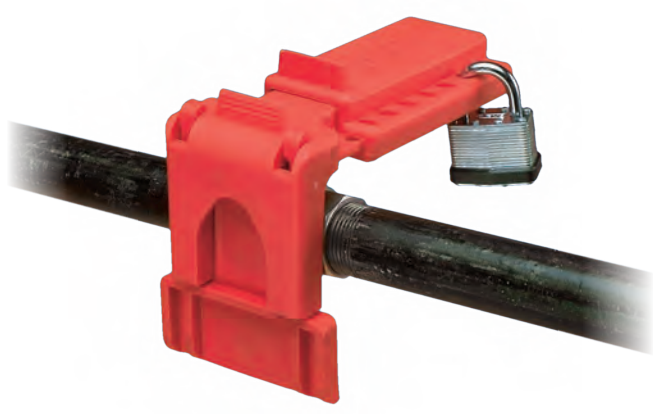


Keep employees safe with this rugged, tamper resistant method to lock out your pneumatic equipment/source.

- Device has seven openings ranging from 9/32" to 1/2" diameter that accommodate most male and female pneumatic end-fittings
- Clear cover allows user to see what is locked out
- Constructed of polycarbonate with steel hinge for tamper-resistance and durability
- Red octagon shape reinforces lockout status and conveys STOP
- Overall dimensions are 3 7/8" x 3 1/4" x 1 7/8"

Part No.	UOM
PSL-1012	Each

Ball/Butterfly Valve Lockout Devices



- Ball valves regulating hydraulic, pneumatic, and chemical energy can be locked out quickly and easily
- Accommodates valve diameters ranging from 0.25" (6.4mm) to 8.00" (203.2mm)
- Constructed of rugged polypropylene providing strength, durability, and added security

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-BV1	Ball valve lockout, accommodates 0.25" – 1.00" (6.4mm – 25.4mm) valve pipe diameter	1	10
PSL-BV2	Ball valve lockout, accommodates 1.25" – 3.00" (31.8mm – 76.2mm) valve pipe diameter		
PSL-BV3	Ball valve lockout, accommodates 2.00" – 8.00" (50.8mm – 203.2mm) valve pipe diameter		
PSL-BFV	Butterfly valve lockout, accommodates most butterfly valve handles		

Order number of pieces required, in multiples of Standard Package Quantity.

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Toggle Switch Cover Device

- Compact secure design fits most toggle switches and some small circuit breakers
- Easily attached without removal of faceplate or screws
- Accommodates switches
  0.45 – 0.78 inches tall x
  0.25 – 0.38 inches x
  0.25 – 0.40 inches thick
- Constructed of rugged nylon and stainless steel providing strength, durability, added security and corrosion resistance

Part No.	UOM
PSL-WS	Each



Universal Wall Switch Cover

Flip the switch, flip the lockout.

- Dual use - works on both rocker/toggle and flat paddle switches
- Attaches to existing switch plate screw(s)
- Fully encloses entire switch
- Cover folds down to block screws and switch access
- Secure with a padlock (sold separately)
- Measures 4 1/2"H x 1 5/8"W x 7/8"D
- Unique design reduces error – applies only in direction of desired lockout position – on or off

Part No.	UOM
PSL-1015	Each

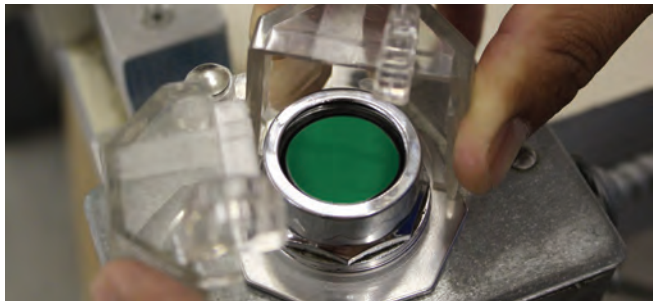


Push Button Cover

Prevent accidental startups of push / pull operation buttons, such as emergency stop buttons.

- Consists of one semi-permanent aluminum ring and a clear polycarbonate top
- Semi-removable design allows for easy storage
- Clear top allows user to see push button
- Tough polycarbonate cover and aluminum ring make it tamper- and impact-resistant, as well as extremely durable
- Overall dimensions are 2 1/8"H x 2"W x 2 1/2"L
- Available in two sizes to fit over 22.5 and 30mm diameter buttons
- Additional new aluminum rings available
- Octagon shape reinforces lockout status and conveys STOP
- Secures with a padlock (sold separately)

Part No.	Description	UOM
PSL-1003	Push Button Cover with 22.5mm base	Each
PSL-1004	Push Button Cover with 30mm base	
PSL-1005	Additional 22.5mm metal ring only	
PSL-1002	Additional 30mm metal ring only	



Toggle-Switch Cover

Prevent access to a toggle switch, yet still see its position.

Quick and easy to install, tough lockout includes clear, industrial strength 3M™ VHB™ tape for secure adhesion*.

- Fits over toggle, button, or knob switch
- The top half can be removed and stored when not in use
- Clear polycarbonate maintains visibility of the switch position and doesn't disrupt existing decals, markings, or messages
- 3 1/2" x 1 1/2" base which covers up to 3/4" x 1"H switch area
- Secures with a padlock (sold separately)
- Octagon shape reinforces lockout status and conveys STOP

* For best adhesion, ideal bond time is 24 to 72 hours prior to lockout application.

Part No.	UOM
PSL-1001	Each



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Corded AC Plug Cover Lockout Devices

- Insert plugs, close cover, and secure with padlock and tag (sold separately)
- Individual corded plugs in a wide range of sizes can be locked out to prevent energization
- Constructed of rugged polypropylene providing strength, durability, and added security



Part No.	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CL110	Lockout fits 120 VAC corded plug, 2.0" x 2.0" x 3.5" inside dimensions	1	10
PSL-CL480	Lockout fits 240 – 480 VAC corded plug, 3.25" x 3.25" x 6.50" inside dimensions		

AC Plug End Lockout Device

- Individual plugs in a wide range of sizes can be locked out to prevent energization
- Accommodates padlocks with shackle lengths of 1.50 inches or greater and plugs with a hole in a blade
- Constructed of rugged polycarbonate providing strength, durability, added security, and corrosion resistance



Part No.	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-P	Plug Lockout	1	10

Receptacle Blockout Device



- Blocks out receptacles to prevent equipment damage from overloading circuits or electrical interference
- Accommodates industrial electrical receptacles with two or three blades

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-ERB	Blockout for 120 V electrical receptacle	1	25

Global Plug Lockout Device



- Individual plugs in a wide range of sizes can be locked out to prevent energization
- Accommodates padlocks with shackle lengths of 1.50 inches or greater and plugs with a hole in a blade
- Constructed of rugged polycarbonate providing strength, durability, added security, and corrosion resistance

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PI	Global plug lockout for 220 – 240 Volt AC/Industrial Plugs	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

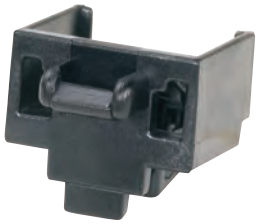
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Network Security Devices

Network security devices block unauthorized access to existing network infrastructure in the data center, at the workstation, in the industrial automation panel, and more. These devices save time and money associated with network downtime, data security breaches, infrastructure repair, and hardware replacement due to theft. The innovative design of the blockout device snaps into modules and is released with the removal tool, ensuring the safety and security of the network infrastructure. The versatile design of the lock-in device is compatible with most existing patch cords, faceplates, patch panels, IP cameras, and other IP devices. It is also compatible with VoIP phones to help prevent unauthorized tampering with connectivity to ensure E911 continuity.



PSL-DCJB



PSL-DCJB-BL



PSL-USBA



PSL-DCPLRX



PSL-DCPLRX-BL



Removal Tool

Jack Module Blockout Device

- Blocks unauthorized access to jacks and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair and hardware replacement
- Compatible with most RJ45 and USB Type 'A' jacks to accommodate a variety of applications and does not interfere with jack contacts separation and punched hole for hanging
- Can be installed/removed without interfering with adjacent jacks or hardware
- May only be released with the special removal tool, ensuring the safety and security of your network infrastructure

Part No.	Jack Type	Package Content	Blockout Color	Std. Pkg. Qty.
PSL-DCJB	RJ45	RJ45 jack blockout devices and one removal tool	Red	10
PSL-DCJB-BL			Black	
PSL-USBA	USB Type 'A'	USB Type 'A' blockout devices and one removal tool	Red	5

RJ45 Plug Lock-In Devices

- Tamper-resistant design blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection
- Deters unauthorized users from moving or stealing VoIP phones helping to maintain E911 service
- Compact design does not interfere with adjacent jacks, even in high-density applications

Part No.	Package Content	Plug Lock-In Color	Std. Pkg. Qty.
PSL-DCPLX	Lock-in devices, and one installation/removal tool	Red	10
PSL-DCPLX-BL		Black	
PSL-DCPLRX	Recessed lock-in devices, and one installation/removal tool	Red	
PSL-DCPLRX-BL		Black	

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Plastic Group Lock Box



Look to view the keys and padlocks in a secure lock box that is shaped to say STOP!

Four rows of aluminum strips contain 16 hooks to hang keys – identifiable through the clear front cover. Once closed, holes and slots along the edges of box and cover align. Secure with up to 42 padlocks (sold separately). Plus, there is a hole on the left backside for a supervisor's padlock.

- Cover pry guard edge provides security when using minimal padlocks
- Visible safety red shows through the clear front cover
- Familiar octagon box shape conveys STOP message
- Front cover slides to hinge open
- 13" x 13" x 3 1/2" box is made of durable, impact-resistant plastic, designed for industrial environments

Each padlock represents a worker on the lockout project. Each padlock removed signifies the worker has completed their portion of the project. Yet there is no access to the keys of the locked-out devices until the last padlock is removed.

Additional features of the lock box include:

- Top carry handle for portability to lockout location
- Two rear keyholes for wall mounting
- Flange foot to set down on flat surface
- Front slot to drop in additional keys after lockout procedures have started

Part No.	UOM
PSL-1026	Each

Compact Plastic Group Lock Box

Small, portable group lock box goes with you on the job – from the office to the production floor.

- Slots in lid to insert and store keys of locked-out devices
- Unique twist-to-turn lid for secure close
- Inner pry guard prevents tamper access
- Lid has two see-through windows and carry handle
- Octagon-shaped box in red conveys the STOP message
- 7 3/4" x 7 3/4" x 4" box is durable, impact-resistant plastic

Part No.	UOM
PSL-1025	Each



Metal Group Lock Box

- Manage multiple employees and energy sources involved in a group lockout procedure
- Accommodates up to 13 padlocks (not included)
- Available in industrial powder-coated or stainless steel construction
- Dimensions: 9.00"W x 6.00"H x 3.25"D



Part No.	Description	UOM
PSL-GLBN	Group Lock Box	Each
PSL-GLBNSS	Stainless Steel Group Lock Box	

Lockout Quick Reference Card


DANGER

A LIFE IS ON THE LINE!

OSHA LOCKOUT STEPS

SHUTDOWN

Inform operator and supervisor about work to be done

1) Prepare for shutdown
2) Shutdown/turn off equipment
3) Isolate from energy source
4) Apply lockout/tagout to energy isolating device
5) Release all potentially hazardous stored or residual energy
6) Verify the isolation

STARTUP

1) Assure equipment operationally intact, clear all personnel & tools
2) Notify all affected employees about startup and lockout/tagout device removal
3) Assure lockout/tagout is removed from each energy-isolating device

(See section 6(e) and 6(f) of 29 CFR 1910.147 for specific requirements of the standard)

- Provides those employees responsible for lockout/tagout with a constant reminder of the OSHA recommended steps for shutdown and startup
- Current calendar year is printed on back side

Part No.	Part Description	Number of Cards Included	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-STEPS	2.13" x 3.38", lockout/tagout steps/calendar wallet card	25	1	4

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

6-Padlock Lockout Shadow Board Kit

Shadow printed on board shows lockout/tagout devices are removed for use.

Durable 14" x14" x 0.063" aluminum board has aluminum pronged hooks to hang padlocks and hasps. Thick, molded, clear, plastic tag pockets measure 4 3/4"H x 3 5/8"W x 2"D.



Board shown w/Kit



Shadow effect enlarged for detail

Kit Contents:

6 Steel Padlocks, 3/4" shackle (keyed differently)
10 Laminated Lockout Tags
10 Plastic Ties
1 Scissor Hasp, 1" opening
1 Scissor Hasp, 1 1/2" opening

Part No.	Description	Size	UOM
PSL-1010	Board w/Kit	14" x 14"	Each
PSL-1011	Board Only		

6-Padlock Hanger Board Kit

Identifies and displays lockout/tagout devices while storing supplies – at the same place.

Durable 14" x 14" x 0.063" aluminum board with metal hooks to hang padlocks and clear plastic tag pocket.



Kit Contents:

6 Steel Padlocks, 3/4" shackle(keyed differently)
10 Laminated Lockout Tags
10 Plastic Ties
1 Scissor Hasp, 1" opening
1 Scissor Hasp, 1 1/2" opening

Part No.	Description	Size	UOM
PSL-1009	Board w/Kit	14" x 14"	Each

Lockout Stations

- Conveniently store padlocks, tags, and lockout devices in one common area
- Designs available to accommodate four, ten, or twenty people



Part No.	Part Description	Std. Pkg. Qty.
PSL-20SWCA	23.00" x 23.00" (584.2mm x 584.2mm), 20 person lockout station with components; components include: (20) PSL-8 red non-conductive lockout padlocks (keyed differently) (6) PSL-1.5 lockout hasps (25 tags) PVT-98 safety tags (25 tags) PVT-41 safety tags	1
PSL-20SA	23.00" x 23.00" (584.2mm x 584.2mm) 20 person lockout station (sign only)	
PSL-10SWCA	11.50" x 23.00" (292.2mm x 584.2mm), 10 person lockout station with components; components include: (10) PSL-8 red non-conductive lockout padlocks (keyed differently) (3) PSL-1.5 lockout hasps (15 tags) PVT-98 safety tags (10 tags) PVT-41 safety tags	
PSL-10SA	11.50" x 23.00" (292.2mm x 584.2mm) 10 person lockout station (sign only)	
PSL-4SWCA	11.50" x 11.50" (292.2mm x 292.2mm), 4 person lockout station with components, components include: (4) PSL-8 red non-conductive padlocks (keyed differently) (3) PSL-1.5 lockout hasps (15 tags) PVT-98 safety tags	
PSL-4SA	11.50" x 11.50" (292.2mm x 292.2mm) 4 person lockout station (sign only)	

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Electrician Lockout Kit



PSL-PK-EAP

Part No.	Kit Contents	Std. Pkg. Qty.
PSL-PK-EA	(1) Screwdriver (1) PSL-PK pouch (1) PSL-8 padlock (1) PSL-MLD multiple lockout (1) PSL-WS wall switch lockout (1) PSL-CBNT "No Tool" circuit breaker lockout (1) PSL-P plug lockout (5) PVT-30 blocking tags	
PSL-PK-EAP	(1) Screwdriver (1) PSL-PK pouch (1) PSL-8 padlock (1) PSL-MLD multiple lockout (1) PSL-WS wall switch lockout (1) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (1) PSL-P plug lockout (5) PVT-30 blocking tags	
PSL-PK-EAPX	(1) Screwdriver (1) PSL-PK pouch (1) PSL-MLD multiple lockout (1) PSL-WS wall switch lockout (1) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (1) PSL-P plug lockout (5) PVT-30 blocking tags	1
PSL-PK-EA-F	(1) Screwdriver (1) PSL-PK pouch (1) PSL-8 padlock (1) PSL-MLD multiple lockout (1) PSL-WS wall switch lockout (1) PSL-CBNT "No Tool" circuit breaker lockout (1) PSL-P plug lockout (5) PVT-30 blocking tags	
PSL-PK-EAKS	(1) Klein Screwdriver (1) PSL-PK pouch (1) PSL-8 red non-conductive lockout padlock (1) PSL-MLD multiple lockout (1) PSL-WS wall switch lockout (1) PSL-CBNT "No Tool" circuit breaker lockout (1) PSL-P plug lockout (5) PVT-30 blocking tags	
PSL-PK	Empty pouch for PSL-PK-EA	

Metal Wall Mount Cabinet

- Conveniently store lockout tools and accessories in one common area
- Durable steel case can be wall-mounted (nine mounting holes) or used as a portable case
- 14.75" x 10.25" x 4.63"



Part No.	Description	Std. Pkg. Qty.
PSL-STATION	Metal Wall Mount Cabinet	1

Contractor Lockout Kit



PSL-KT-CONA

Part No.	Kit Contents	Std. Pkg. Qty.
PSL-KT-CONA	(1) Screwdriver (1) PSL-KT case (6) PSL-8 padlocks (1) PSL-1A hasp (1) PSL-MLD lockout (3) PSL-WS wall switch lockout (3) PSL-CBNT "No Tool" circuit breaker lockout (3) PSL-P plug lockouts (15) PVT-98 tags	
PSL-KT-CONAP	(1) Screwdriver (1) PSL-KT case (6) PSL-8 padlocks (1) PSL-1A hasp (1) PSL-MLD lockout (3) PSL-WS wall switch lockout (3) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (3) PSL-P plug lockouts (15) PVT-98 tags	
PSL-KT-CONAPX	(1) Screwdriver (1) PSL-KT case (1) PSL-1A hasp (1) PSL-MLD lockout (3) PSL-WS wall switch lockout (3) PSL-P plug lockouts (15) PVT-98 tags.	1
PSL-KT-CONA-F	(1) Screwdriver, (1) PSL-KT case (6) PSL-8 padlocks (1) PSL-1A hasp (1) PSL-MLD lockout (3) PSL-WS wall switch lockout (3) PSL-CBNT "No Tool" circuit breaker lockout (3) PSL-P plug lockouts (15) PVT-98 "EQUIPMENT LOCKED OUT BY..." safety tags in French	
PSL-KT-CONA-S	(1) Screwdriver (1) PSL-KT case (6) PSL-8 padlocks (1) PSL-1A hasp (1) PSL-MLD lockout (3) PSL-WS wall switch lockout (3) PSL-CBNT "No Tool" circuit breaker lockout (3) PSL-P plug lockouts (15) PVT-98 tags in Spanish	
PSL-KT	Empty plastic kit box for PSL-KT-CONA	

Safety Tool Bag

Red/Black Polyester Fabric

- Width: 18 inches
- Height: 11 inches
- Depth: 11 inches

Part No.	Color	Std. Pkg. Qty.
PSL-BG	Red	1



Order number of pieces required, in multiples of Standard Package Quantity.

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Maintenance Lockout Kit



PSL-KT-MROAP

Part No.	Kit Content	Std. Pkg. Qty.
PSL-KT-MROA	(1) Screwdriver (1) PSL-BX case (3) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-WS wall switch lockout (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-P plug lockout (1) PSL-V6A gate valve lockout, 2.50" to 6.50" diam. handle (1) PSL-V2A gate valve lockout, 1.00" to 2.50" diam. handle (1) PSL-BV2 ball-valve lockout (1) PSL-CL110 120 volt AC cord lockout (10) PVT-44 maintenance tags	
PSL-KT-MROAP	(1) Screwdriver (1) PSL-BX case (3) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-WS wall switch lockout (2) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (2) PSL-P plug lockout (1) PSL-V6A gate valve lockout, 2.50" to 6.50" diam. handle (1) PSL-V2A gate valve lockout, 1.00" to 2.50" diam. handle (1) PSL-BV2 ball-valve lockout (1) PSL-CL110 120 volt AC cord lockout (10) PVT-44 maintenance tags	
PSL-KT-MROAPX	(1) Screwdriver (1) PSL-BX case (1) PSL-MLD multiple lockout device (2) PSL-WS wall switch lockout (2) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (2) PSL-P plug lockout (1) PSL-V6A gate valve lockout, 2.50" to 6.50" diam. handle (1) PSL-V2A gate valve lockout, 1.00" to 2.50" diam. handle (1) PSL-BV2 ball-valve lockout (1) PSL-CL110 120 volt AC cord lockout (10) PVT-44 maintenance tags	1
PSL-KT-MROA-F	(1) Screwdriver (1) PSL-BX case (3) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-WS wall switch lockout (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-P plug lockout (1) PSL-V6A gate valve lockout, 2.50" to 6.50" diam. handle (1) PSL-V2A gate valve lockout, 1.00" to 2.50" diam. handle (1) PSL-BV2 ball-valve lockout (1) PSL-CL110 120 volt AC cord lockout (10) PVT-44 "DO NOT OPERATE" maintenance tags in French	
PSL-KT-MROA-S	(1) Screwdriver (1) PSL-BX case (3) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-WS wall switch lockout (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-P plug lockout (1) PSL-V6A gate valve lockout, 2.50" to 6.50" diam. handle (1) PSL-V2A gate valve lockout, 1.00" to 2.50" diam. handle (1) PSL-BV2 ball-valve lockout (1) PSL-CL110 120 volt AC cord lockout (10) PVT-44 maintenance tags in Spanish	
PSL-BX	Empty plastic kit box for PSL-KT-MROA	

Power and Panel Distribution Lockout Kit



PSL-KT-PWRP

Part No.	Kit Content	Std. Pkg. Qty.
PSL-KT-PWR	(1) Screwdriver (1) PSL-STATION metal wall mount cabinet (2) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-CBILNT "No Tool" circuit breaker lockout for I-Line™ (2) PSL-CBL large handle circuit breaker lockout (1) PSL-P plug lockout (25) PVT-23-Q tags	
PSL-KT-PWRP	(1) Screwdriver (1) PSL-STATION metal wall mount cabinet (2) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (2) PSL-CBILNT "No Tool" circuit breaker lockout for I-Line™ (2) PSL-CBL large handle circuit breaker lockout (1) PSL-P plug lockout (25) PVT-23-Q tags	
PSL-KT-PWRPX	(1) Screwdriver (1) PSL-STATION metal wall mount cabinet (1) PSL-MLD multiple lockout device (2) PSL-PCBNT PowerLOK™ "No Tool" circuit breaker lockout (2) PSL-CBILNT "No Tool" circuit breaker lockout for I-Line™ (2) PSL-CBL large handle circuit breaker lockout (1) PSL-P plug lockout (25) PVT-23-Q tags	1
PSL-KT-PWR-F	(1) Screwdriver (1) PSL-STATION metal wall mount cabinet (2) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-CBILNT "No Tool" circuit breaker lockout for I-Line™ (2) PSL-CBL large handle circuit breaker lockout (1) PSL-P plug lockout (25) PVT-23-Q "DO NOT OPERATE ELECTRICIANS AT WORK" tags in French	
PSL-KT-PWR-S	(1) Screwdriver (1) PSL-STATION metal wall mount cabinet (2) PSL-8 padlocks (1) PSL-MLD multiple lockout device (2) PSL-CBNT "No Tool" circuit breaker lockout (2) PSL-CBILNT "No Tool" circuit breaker lockout for I-Line™ (2) PSL-CBL large handle circuit breaker lockout (1) PSL-P plug lockout (25) PVT-23-Q "DO NOT OPERATE ELECTRICIANS AT WORK" tags in Spanish	

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Non-Conductive Safety Padlocks

Aluminum body and shackle with non-conductive vinyl cover delivers protection against electrical hazards for maximum safety, specifically in lockout/tagout applications. Padlock is available with the standard 1.77" body or 3.00" long body design that allows safety message to be displayed on the padlocks in two languages.

Body Height 1.77" (45.2mm) Part Number	Body Height 3.00" (76.2mm) Part Number	Color	Std. Pkg. Qty.
PSL-8BL	PSL-8BL-LB	Black	1
PSL-8BU	PSL-8BU-LB	Blue	
PSL-8GR	PSL-8GR-LB	Green	
PSL-8OR	PSL-8OR-LB	Orange	
PSL-8	PSL-8-LB	Red	
PSL-8YL	PSL-8YL-LB	Yellow	
PSL-8PU	PSL-8PU-LB	Purple	
PSL-8BR	PSL-8BR-LB	Brown	



PSL-8 and PSL-8-LB

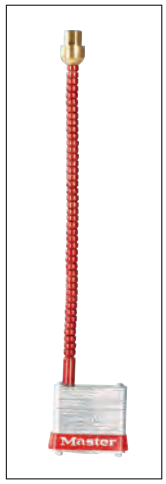
Specialty Padlocks

Harsh environment padlocks are created with a solid brass body with a chrome finish and stainless steel shackle for use in severe weather and environmental conditions. Flexible shackle padlocks allow movement of the lock body in order to close the panel door.

Part No.	Part Description	Color	Std. Pkg. Qty.
PSL-9	Harsh environment padlock; shackle height 1.00" (25.4mm)	Silver	1
PSL-9-LS	Harsh environment padlock; shackle height 3.00" (76.2mm)		
PSL-CS	Flexible shackle padlock; shackle height 5.00" (127.0mm)	Red	



PSL-9 and PSL-9-LS



PSL-CS

Aluminum Padlocks

Solid aluminum body with anodized aluminum finish design can withstand extreme environmental conditions for improved durability and enhanced corrosion resistance. These padlocks are available with standard 1.50" x 1.62" body or ultra-compact 1.25" x 1.37" body for lockout operations in tight spaces.



PSL-7 and PSL-7-LS



PSL-12

Body Height 1.62" (41.1mm) Shackle Height 1.00" (25.4mm) Part Number	Body Height 1.62" (41.1mm) Shackle Height 3.00" (76.2mm) Part Number	Body Height 1.25" (41.1mm) Shackle Height 1.00" (25.4mm) Part Number	Color	Std. Pkg. Qty.
PSL-7BL	PSL-7BL-LS	PSL-12BL	Black	1
PSL-7BU	PSL-7BU-LS	PSL-12BU	Blue	
PSL-7GR	PSL-7GR-LS	PSL-12GR	Green	
PSL-7OR	PSL-7OR-LS	PSL-12OR	Orange	
PSL-7	PSL-7-LS	PSL-12	Red	
PSL-7YL	PSL-7YL-LS	PSL-12YL	Yellow	
PSL-7PU	PSL-7PU-LS	PSL-12PU	Purple	
PSL-7BR	PSL-7BR-LS	PSL-12BR	Brown	

Order number of pieces required, in multiples of Standard Package Quantity.

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Weatherproof Padlock

- Solid brass body to stand up to the harshest environments
- Sealed lock body with cover seal and drainage channels to protect against water and dirt
- Inner components made from non-corrosive materials
- Standard locks are keyed differently. Also available in keyed alike and master keyed options (contact customer service for further details).

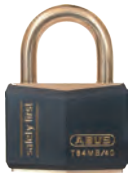




Part No.	Color	Body Width		Shackle Clearance Height		Shackle Clearance Width		Shackle Diameter		Pins in Cyl.	Shackle Material	Std. Pkg. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm			
PSL-14ABL	Black	1 21/64	34	31/32	24.5	17/32	13.5	1/4	6.5	4	Steel	1
PSL-14BYL	Yellow	1 3/4	49	7/8	25	13/16	20	9/32	8	5	Steel	
PSL-14BYL-LS				2 1/2	63							
PSL-15ABU	Blue	1 3/4	49	7/8	25	13/16	20	9/32	8	5	Stainless	
PSL-15ABU-LS				2 1/2	63							
PSL-15BBU	Blue	1 5/32	55	1 3/64	26.5	59/64	23.5	23/64	9	5	Stainless	

Non-Sparking Brass Padlock

- Shackle and body made from solid brass
- Inner components made from non-corrosive materials
- Color: Black
- Standard locks are keyed differently. Also available in keyed alike and master keyed options (contact customer service for further details).



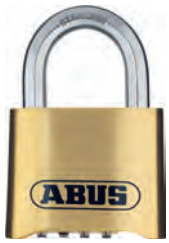


Available in other colors by special order

Part No.	Body Width		Shackle Clearance Height		Shackle Clearance Width		Shackle Diameter		Pins in Cyl.	Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm		
PSL-17ABL	1 11/16	43	13/16	21	13/16	20	1/4	6	4	1
PSL-17BBL	2	53	15/16	24	1	25	9/32	7	5	

Brass Weatherproof Combination Padlock

- Forged brass body with stainless steel shackle
- 4-digit resettable code
- Inner components made from non-corrosive materials
- Resettable combination (comes with resettable tool)
- Color: Brass

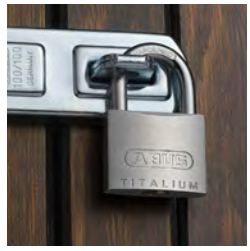




Part No.	Body Width		Shackle Clearance Height		Shackle Clearance Width		Shackle Diameter		Std. Pkg. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	
PSL-18	2	53	1	25	1	25	5/16	8	1
PSL-18-LS			2 1/2	63					

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TITALIUM™ Padlock



- TITALIUM™ aluminum alloy lock body; light, yet secure
- Shackle made of hardened steel with NANO PROTECT™ coating for extra corrosion resistance
- Color: Gray
- Standard locks are keyed differently. Also available in keyed alike options (contact customer service for further details).



Part No.	Body Width In.	Body Width mm	Shackle Clearance Height In.	Shackle Clearance Height mm	Shackle Clearance Width In.	Shackle Clearance Width mm	Shackle Diameter In.	Shackle Diameter mm	Pins in Cyl.	Std. Pkg. Qty.
PSL-13A	25/32	20	29/64	11.5	3/8	9.5	9/64	3.5	3	1
PSL-13B	31/32	24.5	17/32	13.5	33/64	13	5/32	4	4	
PSL-13C	1 3/16	30	43/64	17	5/8	16	13/64	5		
PSL-13D	1 9/16	40	29/32	23	7/8	22	15/64	6	5	
PSL-13D-LS			1 37/64	40						
PSL-13E	1 31/32	50	1 9/64	29	1 7/64	28	5/16	8	5	

Brass Padlock

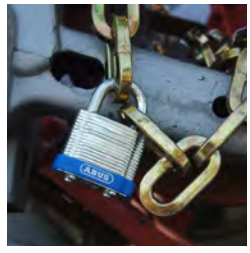


- Solid brass body for extra corrosion resistance
- Shackle made from hardened steel
- Color: Brass
- Standard locks are keyed differently. Also available in keyed alike options (contact customer service for further details).



Part No.	Body Width In.	Body Width mm	Shackle Clearance Height In.	Shackle Clearance Height mm	Shackle Clearance Width In.	Shackle Clearance Width mm	Shackle Diameter In.	Shackle Diameter mm	Pins in Cyl.	Std. Pkg. Qty.
PSL-16A	15/16	24	7/16	11	15/32	12	5/32	4	3	1
PSL-16B	1 9/64	29	33/64	13	19/32	15	13/64	5		
PSL-16C	1 1/2	38	7/8	22	53/64	21	15/64	6.5	4	
PSL-16C-LS			2 1/2	63						
PSL-16D	1 3/4	43	15/16	24	15/16	24	1/4	6	4	
PSL-16E	1 7/8	48			63/64	25	9/32	7	5	
PSL-16F	2 9/32	58	1 1/4	32	1 1/4	32	5/16	8	5	

Laminated Steel Padlock



- Laminated steel with ETERNA™ coating on each laminate for extreme corrosion resistance
- Tough, countersunk rivets for extra strength
- High-precision 5-pin tumbler, drilling and pulling protected
- Color: Blue
- Standard locks are keyed differently. Also available in keyed alike options (contact customer service for further details).



Part No.	Body Width In.	Body Width mm	Shackle Clearance Height In.	Shackle Clearance Height mm	Shackle Clearance Width In.	Shackle Clearance Width mm	Shackle Diameter In.	Shackle Diameter mm	Pins in Cyl.	Std. Pkg. Qty.
PSL-6ABU	1 1/4	35	5/8	15	19/32	15	3/16	5	4/5	1
PSL-6ABU-LS		25	2	50						
PSL-6BU	1 1/2	44	3/4	20	13/16	18	1/4	7		
PSL-6BU-LS			2	50						
PSL-6CBU	1 59/64	49	29/32	23	25/32	20	5/16	8		
PSL-6CBU-LS			2	50						
PSL-6DBU	2	53	1	25	15/16	23	11/32	9		
PSL-6DBU-LS			2	50						

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Steering Wheel Covers

Prevent others from driving a vehicle that is disabled or undergoing maintenance.

- Flexible, reinforced vinyl cover
- Backside of upper half has stitched pocket to slip over steering wheel
- Secure cover to steering wheel to prevent removal
- 3/8" metal grommeted hole at bottom accommodates 1 1/2" hasp with padlocks (sold separately)
- Octagon shape reinforces lockout status and conveys STOP



16" **PSL-1075**
20" **PSL-1078**
24" **PSL-1081**



16" **PSL-1076**
20" **PSL-1079**
24" **PSL-1082**



16" **PSL-1077**
20" **PSL-1080**
24" **PSL-1083**

Metal I.D. Tags and Collars



- Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments
- All marker plates/tags can be embossed or laser etched with Panduit Factory Custom Marking Service*

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-TG1	Brass padlock identification tag	12	48
PSL-SC	Padlock shackle collar and rivet		
MTB1D-Q	Brass identification tag 1.00" (25.4mm) diameter	25	250
MT172W38-C	Stainless steel tag 1.72" x 0.38" (43.7mm x 9.7mm)	100	1000

*For more information on the Panduit Custom Marking Service please contact cs@panduit.com

Padlock Eyes



- Padlock eyes can be added to equipment to lock it out
- Surface mounted eyes are made of 0.13" (3.0mm) hard wrought steel
- Tamper resistant inside mounting eyes – 2.50" (64.0mm) wide, accept shackle diameters up to 0.63" (16.0mm)

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PE1	Padlock eyes, angled (metal mounting screws included)	1	10
PSL-PE2	Padlock eyes, straight (wood mounting screws included)		

Chain Attachment



- Optional 9.00" (229.0mm) chain for permanently attaching lockouts at pre-designed locations

Part No.	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PC	Heavy duty zinc plated steel chain with chain holder attached	1	10

Padlock Overlaminate Label



Instantly identify the padlock.

- Write on the surface with pen or pencil — name, date, and any other identification necessary
- 9"W x 0.875"H self-adhesive vinyl label has peel-off liner
- Half of label has printed and writable area and the other half is clear to wrap and protect written area

Part No.	Danger Message	Std. Pkg. Qty.
PSL-1028	DO NOT REMOVE THIS LOCK	50
PSL-1029	EQUIPMENT LOCKED OUT	

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Self-Laminating Padlock Labels

- Used to identify employees' locks; employees sign the label, attach it to the padlock, and overwrap with the clear vinyl to protect the legend
- Available in six colors for departmental coding
- One-piece design is easy to use
- Width: 10.00 inches
- Height: 0.75 inches



Part No.	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PL1BLKY	Black	25	150
PSL-PL1BLUY	Blue		
PSL-PL1GRNY	Green		
PSL-PL1REDY	Red		
PSL-PL1WHTY	White		
PSL-PL1YELY	Yellow		
PSL-PL1REDY-D	Red Label with DANGER header		
PSL-PL1REDY-P	Red Label with DANGER header in Portuguese		
PSL-8-LABEL	Red/Black/White	1	20

Labels are designed with blank write-on area for name and department designation and can be clearly identified with Panduit permanent marking pens.

Steel Hasp

- Hardened steel construction for extra strength
- Hidden screws and hinge pins for extra security
- Corrosion protected galvanized finish
- Color: Silver
- Available in 5 different sizes





Part No.	Eye Loop Diameter		Length		Std. Pkg. Qty.
	In.	mm	In.	mm	
PSL-PH1	23/64	9	3	75	1
PSL-PH2	33/64	13.4	3 3/4	95	1
PSL-PH3			4 1/2	115	
PSL-PH4			5 1/4	135	
PSL-PH5			6 1/2	155	

Braided Steel Cable

- Flexible poly-coated braided steel cable
- The cable loops can be intertwined and locked with a padlock
- Color: Black
- Available in a variety of diameters and lengths





Part No.	Diameter		Length		Std. Pkg. Qty.
	In.	mm	ft.	cm	
PSL-PC31-6	5/16	8	6	200	1
PSL-PC31-10			10	250	
PSL-PC38-6	3/8	10	6	200	
PSL-PC38-16			16	500	
PSL-PC38-33			33	1000	

Order number of pieces required, in multiples of Standard Package Quantity.

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NFPA Placard Sign Kits

Display the four-color NFPA diamond format for the hazard categories.

- 10" x 7" sign available in 0.040" aluminum
- Adhesive hazard panels printed black on clear to apply on-site
- Kit includes: 1 sign, 15 numbers (3 sets, 0 – 4), 7 specific hazard symbols, NFPA wallet guide

UOM
Kit



PHC0126 PHC0127

Hazardous Material Classification Sign

Properly identify the four hazard ratings of chemicals and materials on hand.

- Post on or in area of chemical containers
- Write in hazard ratings and chemical name for on-the-spot identification

To Order: Add material code before part number.
Example: Material Code PVS + Part No. 1007B4845 = PVS1007B4845

Material	Code	UOM
Adhesive Vinyl	PVS	Each
Polyethylene Plastic	PRS	



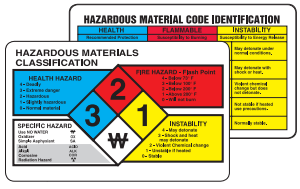
10" x 7" **1007B4845**

Wallet Cards

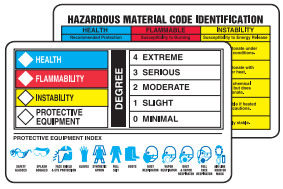
Quick reference fits in employee's pocket.

- Color-printed plastic in three front styles: NFPA, HMCIS and Combo
- Back features hazard rating code index definitions
- Measures 2 1/8" x 3 3/8"
- Available each

UOM
Each



NFPA **PHC0122**

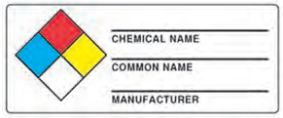


HMCIS **PHC0078**

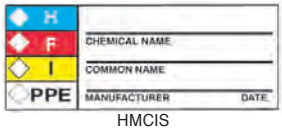
Chemical Identifier Roll Labels

Identify hazardous chemicals with appropriate information.

- Write-in chemical name, hazard ratings and PPE
- Self-laminating has clear flap to protect writing
- Adhesive-poly in roll of 500
- Self-laminating vinyl in roll of 100



NFPA



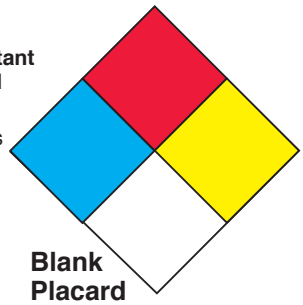
HMCIS

NFPA Part No.	HMCIS Part No.	Material/Size	Std. Pkg. Qty.
PHC0075	PHC0079	Adhesive-Poly, 1 1/2" x 3 7/8"	500
PHC0074	PHC0076	Self-Laminating Vinyl, 1" x 3"	100

NFPA Placard Sign Kits

Easy installation and convenient for instant on-site classification of chemical hazard identification.

- Kit includes: 1 blank placard, 15 numbers (3 sets of 0-4), 7 hazard symbols, and NFPA wallet guide
- 0.004" adhesive vinyl placards with clear, self-adhesive hazard panels
- Blank colored placards and self-adhesive hazard panels also available separately



Blank Placard

Hazard Panels



Placard Kit		Blank Placard		
Part No.	UOM	Part No.	UOM	Size
PHC0124	Kit	PHC0082	Each	4" x 4"
PHC0123		PHC0080		10" x 10"
PHC0125		PHC0081		15" x 15"

To Order Hazard Panels: *Add desired hazard panel number or symbol code after part number.
Number Example: Part No. PHC4X4N + Hazard Panel Number 2 = PHC4X4N2
Symbol Example: Part No. PHC4X4 + Symbol Code RAD = PHC4X4RAD

Number Part No.	Symbol Part No.	Fits Placard	Char. Height	UOM
PHC4X4N*	PHC4X4*	4" x 4"	1"	Each
PHC10X10N*	PHC10X10*	10" x 10"	4"	
PHC15X15N*	PHC15X15*	15" x 15"	6"	

Additional sizes and materials available.

NFPA Flip Placard Sign

Flip and change panels to reflect any hazard.

- Aluminum flip panels display the hazard rating required by NFPA 704
- 15 1/2" x 15 1/2", 0.063" sturdy, rust-proof aluminum backboard
- 0.120" clear plastic face fits over placard with center screw
- Withstands weather and other environmental conditions
- 3/16" corner mounting holes

Part No.	UOM
PHC0128	Each





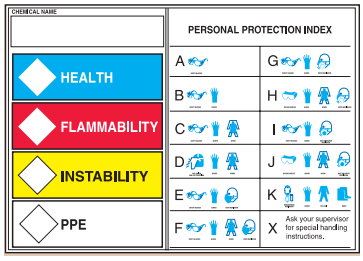
Comply with OSHA standard 29 CFR §1910.1200, commonly known as the "Right-To-Know" standard.

Hazardous Material Labels

On-the-spot chemical hazard identification.

- Write-in chemical name, hazard ratings, and PPE information
- Adhesive vinyl

Size	UOM
3 1/2" x 5"	Each



HMCIS Protective Equipment **PHC0077**

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Drum & Container Labels



Label drums and containers to identify contents considered hazardous for handling.

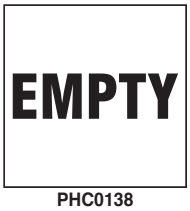
- Available with peel-off liner in: Adhesive Coated Paper and flexible Adhesive-Poly Sheet
- Labels measure 6" x 6"
- Package of 25 or 100



PHC0139



PHC0134



PHC0138



PHC0135



PHC0136



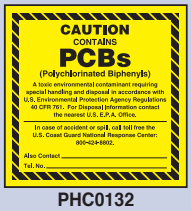
PHC0137

PCB Labels

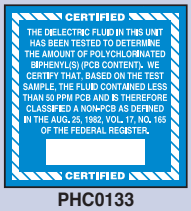
Available in Adhesive-Poly Sheet,

Package of 25 only

Std. Pkg. Qty.
25



PHC0132



PHC0133

To Order Labels: Add material/quantity code after part number.
Example: Part No. PHC0139 + Material/Quantity Code PQ = PHC0139PQ

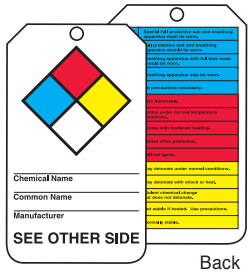
Adhesive Coated Paper	Adhesive-Poly Sheet	
Code	Code	Std. Pkg. Qty.
PQ	VQ	25
PC	VC	100

Hazardous Material Tags

Attach tags to hazardous material containers that are difficult to label with adhesive marking.

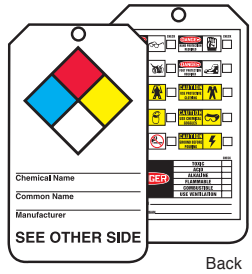
Tags contain NFPA or HMCIS symbols to help communicate and comply with OSHA 29 CFR 1910.1200 by conveying important chemical hazard information. Fill in the hazard code and related information for handling and exposure to hazardous chemicals.

Use Hazardous Waste tags to comply with EPA (40 CFR part 262.32) and DOT (49 CFR part 172) regulations to mark hazardous waste.



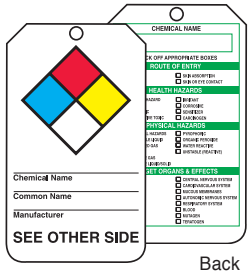
Front Back
1118

Back - quick reference to the hazard code index; definitions.



Front Back
1119

Back - protective equipment; chemical's severity; chemical name; target organ.



Front Back
1120

Back - chemical name; route of entry; health hazards; physical hazards; target organs and effects.



Front Back
1124

Back - protective equipment; chemical's severity; chemical name; target organ.

Available Materials	Codes	Available Packages	Codes
Poly Cardstock	**PCT-**	Pk. of 5	**(blank)**
Rigid Plastic	**PVT-**	Pk. of 25	**-Q**

How to Order Tags:

1. Select Material Code: **PCT-**
2. Select Tag Base Part Number: **1118** 
3. Select Package: 5/Pk – **(blank)**; 25/Pk – **-Q**
4. Combine Codes in Specific Order for Complete Part Number: 5/Pk – **PCT-1118;** 25/pk – **PCT-1118-Q**

Order number of pieces required, in multiples of Standard Package Quantity.

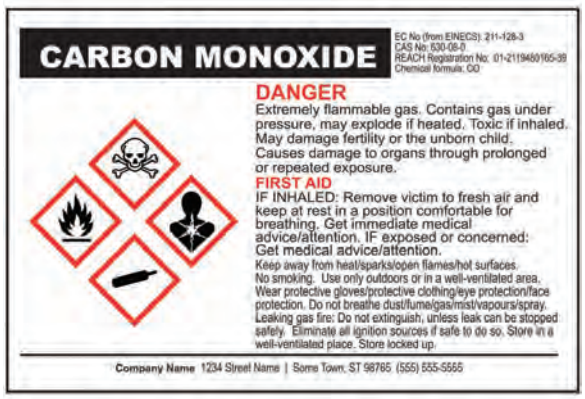
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New Globally Harmonized Standard (GHS) Label Format Required Elements

1. **Product Identifier or Name:**

2. **Pictogram Hazard Symbols in Red Diamonds:** Indicates what type of risk physical/chemical, health, or environmental.

6. **Manufacturer Information:** Company name, address, and phone number.



3. **Signal Word:** Indicates relative level of hazard. "DANGER" is used for most severe instances; "WARNING" is less severe.

5. **Hazard Statement:** Describes the nature of the hazard(s) of a chemical and often the degree of the hazard.

4. **Precautionary Statement:** Indicates recommended measures to be taken to minimize or prevent adverse effects from exposure to a hazardous chemical.

GHS Pre-Printed Hazard Symbols

Nine hazard pictograms available on cards are in compliance with the GHS standard. Labels are vinyl material for indoor or outdoor use. Available in four size options:

- 1.00" with 16 labels per card
- 2.00" with 4 labels per card
- 4.00" with 2 labels per card

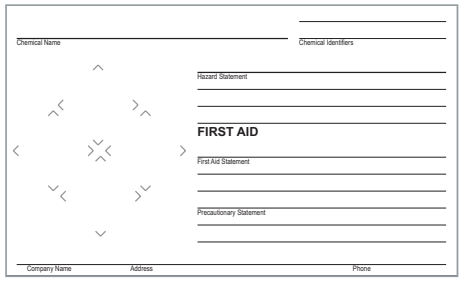
Hazard Pictogram	Part Number Size 1.00"	Part Number Size 2.00"	Part Number Size 4.00"
Exploding Bomb	PVS0101GEX	PVS0202GEX	PVS0404GEX
Gas Cylinder	PVS0101GGP	PVS0202GGP	PVS0404GGP
Flame Over Circle	PVS0101GOX	PVS0202GOX	PVS0404GOX
Flame	PVS0101GF	PVS0202GF	PVS0404GF
Corrosion	PVS0101GC	PVS0202GC	PVS0404GC
Skull and Crossbones	PVS0101GST	PVS0202GST	PVS0404GST
Exclamation Mark	PVS0101GAT	PVS0202GAT	PVS0404GAT
Health Danger	PVS0101GHD	PVS0202GHD	PVS0404GHD
Environmental	PVS0101GE	PVS0202GE	PVS0404GE

Write-On GHS Tags and Signs

Write-on tags and signs allow for quick and easy labeling for compliance with the new GHS requirements. GHS tags and signs are for use with PVS006006G*
Pictogram Labels (sold separately).



Vinyl Tag
5.75"H x 3.00"W
PVT-GHS-Q



Vinyl Sign
3.00"H x 5.00"W
PVS0305GHS

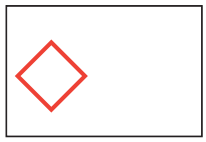
*Custom Printed GHS Labels are also available. Please visit www.panduit.com/ghs for more information.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

GHS Print On-Demand Thermal Transfer Labels

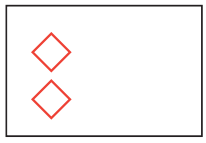


1 Diamond Thermal Transfer Labels



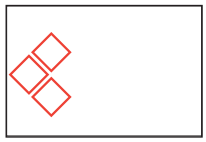
Part No.	Size
C400X200YPT-G1	2.50" x 4.00"
C400X400YPT-G1	4.00" x 4.00"
C400X600YPT-G1	4.00" x 6.00"

2 Diamond Thermal Transfer Labels



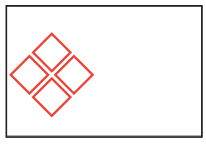
Part No.	Size
C400X200YPT-G2	2.50" x 4.00"
C400X400YPT-G2	4.00" x 4.00"
C400X600YPT-G2	4.00" x 6.00"

3 Diamond Thermal Transfer Labels



Part No.	Size
C400X200YPT-G3	2.50" x 4.00"
C400X400YPT-G3	4.00" x 4.00"
C400X600YPT-G3	4.00" x 6.00"

4 Diamond Thermal Transfer Labels



Part No.	Size
C400X200YPT-G4	2.50" x 4.00"
C400X400YPT-G4	4.00" x 4.00"
C400X600YPT-G4	4.00" x 6.00"

Print from the Easy-Mark Plus™ Labeling Software or Easy-Mark™ Labeling Software directly to die cut polyester labels that match the formats in the software. Labels feature 1, 2, 3, or 4 red pre-printed diamonds for one-pass printing of the two-color GHS labels; 250 labels per roll.

GHS Hazard Pictogram and Classes

Physical/Chemical Risk



Exploding Bomb
Explosives, Self-Reactive, Organic Peroxides



Gas Cylinder
Gases under pressure



Flame over Circle
Oxidizers



Flame
Flammables, Pyrophoric, Self-Heating, Emits Flammable Gas, Self-Reactive, Organic Peroxides



Corrosion
Corrosive to Metals

Health Risk



Corrosion
Skin Corrosion/ Burns and Eye Damage



Skull and Crossbones
Acute Toxicity (fatal or toxic)



Exclamation Mark
Irritant (skin and eye), Skin Sensitizer, Acute Toxicity (harmful), Narcotic Effects, Respiratory Tract Irritant, Hazardous to Ozone Layer



Health Danger
Carcinogen, Mutagenicity, Reproductive Toxicity, Respiratory Sensitizer, Target Organ Toxicity, Aspiration Toxicity

Environmental Risk



Environmental
Aquatic Toxicity

Order number of pieces required, in multiples of Standard Package Quantity.

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GHS Pictogram Labels



Pictogram labels comply with the Globally Harmonized System.

- Identify hazards associated with chemicals
- The Hazard Communication Standard (HCS) requires eight of the nine GHS pictograms
- The environment pictogram is non-mandatory since environmental hazards fall outside OSHA's jurisdiction
- Available in adhesive-coated paper and adhesive-poly sheet
- 250 or 500 per roll



Flame
1" x 1" **PHC02**
2" x 2" **PHC11**



Flame Over Circle
1" x 1" **PHC03**
2" x 2" **PHC12**



Exploding Bomb
1" x 1" **PHC04**
2" x 2" **PHC13**



Corrosion
1" x 1" **PHC05**
2" x 2" **PHC14**



Gas Cylinder
1" x 1" **PHC06**
2" x 2" **PHC15**



Skull & Crossbones
1" x 1" **PHC07**
2" x 2" **PHC16**



Exclamation Mark
1" x 1" **PHC08**
2" x 2" **PHC17**



Environment
1" x 1" **PHC09**
2" x 2" **PHC18**

Non-mandatory



Health Hazard
1" x 1" **PHC10**
2" x 2" **PHC19**

To Order Labels: Add material/quantity code after part number.
Example: Part No. PHC02 + Material/Quantity Code PB = PHC02PB

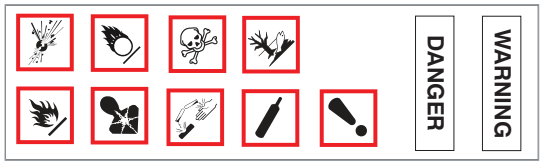
Adhesive Coated Paper	Adhesive-Poly Sheet	
Code	Code	Std. Pkg. Qty.
PS	VS	250
PB	VB	500

GHS Jumbo Tags



Attach tags to chemicals in the workplace, and add the appropriate signal word and GHS pictogram labels to identify the hazards.

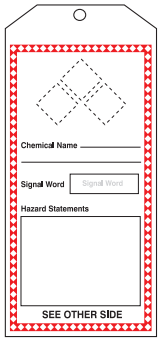
- Large tags with space to write in the product/chemical identification, hazard statements and additional comments on the back
- Label set of nine pictograms and the two approved signal words "Danger" and "Warning" are included for each tag and made of adhesive vinyl
- Available in two stock materials, in packs of 5



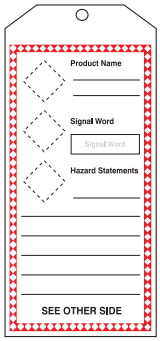
Label set includes 9 pictograms and 2 signal words



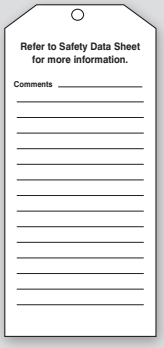
1121



1122



1123



Standard Back

To Order Tags: Add material code before part number.
Example: Material Code PCT- + Part No. 1121 = PCT-1121

Size	Material	Code	Std. Pkg. Qty.
8 1/2" x 3 7/8"	Poly Cardstock	PCT-	5
	Rigid Plastic	PVT-	

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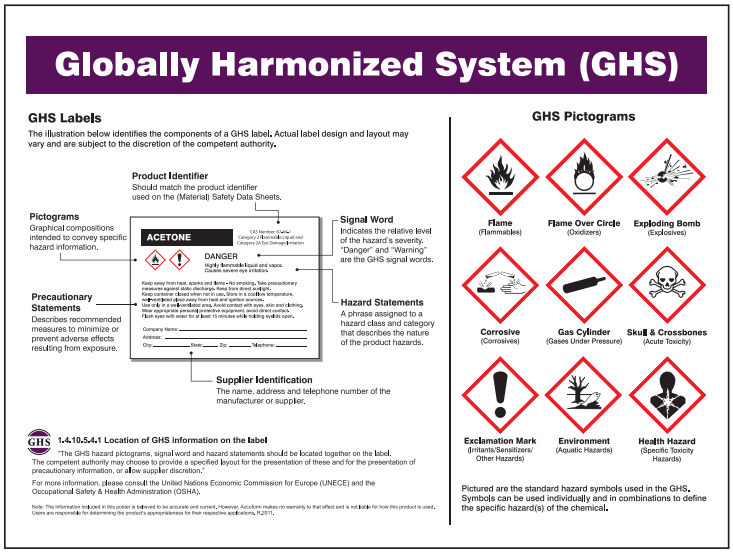
GHS Hazard Communication Training Kit



Panduit GHS Hazard Communication Training Kit provides instruction on OSHA 1910.1200 Hazard Communication Standard, including changes related to Globally Harmonized System for the Classification of Hazardous Chemicals (GHS). Included is a seventy minute video with instructor led training on setting up a Hazard Communication Program and understanding the new labeling and safety data sheet requirements. The companion CD provided consists of PowerPoint slides, PDF files of the quiz, training record and certificate of completion.

Part No.	Kit Contents
PSL-GHS-TRAIN	(1) Panduit GHS Hazard Communication Training DVD (1) Panduit GHS Hazard Communication Training Companion CD (1) Leaders Guide (1) Participant Quiz (1) Participant Quiz Answers (1) Training Record (4) 4" x 6" Acetone GHS label sample (1) PSL-GHSPOSTE GHS Training Poster (25) PSL-GHSWALLETE GHS Training Wallet Cards

GHS Posters



English PHC0131

Post GHS label and pictogram guidelines for quick reference.

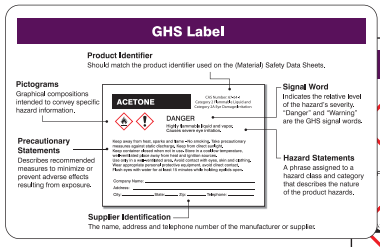
- 18" x 24" plastic laminate poster
- Displays easy-to-understand information on GHS labels and pictograms
- Label & pictogram. Guidelines for quick reference.



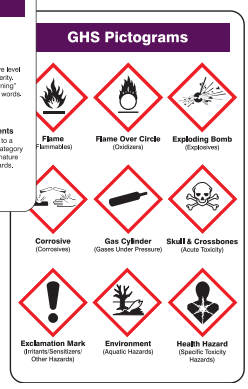
Spanish PHC0120

Part No.	Description	UOM
PHC0131	English	Each
PHC0120	Spanish	

GHS Wallet Cards



English Front
PHC0001



English Back

Keep a visual reminder of GHS label and pictogram requirements close at hand.

- Double-sided plastic wallet card
- One side shows a representation of the nine standard GHS pictograms, while the flip side shows a GHS label example
- Measures 3 3/8" x 2 1/8"

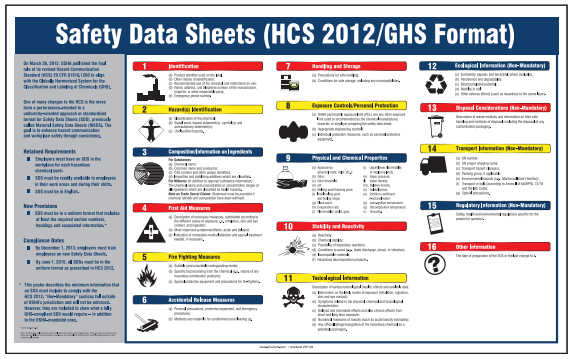
Part No.	Description	UOM
PHC0001	English	Each
PHC0119	Spanish	

Training Posters

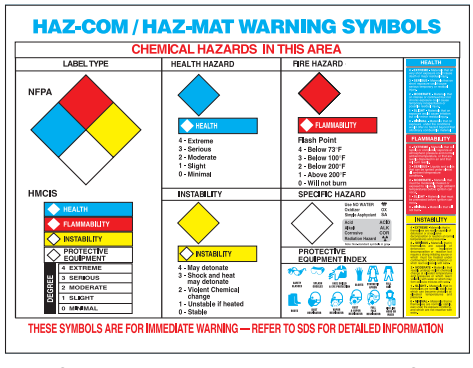
Inform employees and support your hazard communication program.

- Plastic laminated posters provide instructional information regarding chemical identification and hazard communication
- SDS poster summarizes the information found in the 16 sections OSHA outlines in its revised Haz-Com standard
- Haz-Com poster includes information pertaining to both NFPA and HMCIS

Part No.	Description	UOM
PHC0130	SDS	Each
PHC0129	Haz-Com	



SDS, 20" x 32" **PHC0130**



Haz-Com, 18" x 24" **PHC0129**

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



Traffic Signs

Post traffic signs to safely control and regulate the flow of vehicles and pedestrians.

- Constructed of heavy-duty, 0.080" aluminum, rustproof to withstand weather conditions
- Reflective face for added bounce-back light visibility from headlights and other light sources
- Abrasion-resistant face is also UV-resistant to prevent fading for years of outdoor exposure
- Top and bottom center holes for post- or fence-mount installation

Materials

Engineer-Grade Prismatic – Good choice for added visibility in low-light conditions. Type I

High-Intensity Prismatic – Better choice for greater visibility with 3X brighter than Engineer-Grade. Type III, IV, X

Stop Signs & Yield Signs



Engineer-Grade Prismatic Part No.	High-Intensity Prismatic Part No.	Size
PTS075	PTS080	18" x 18"
PTS186	PTS083	24" x 24"
PTS187	PTS084	30" x 30"
PTS188	PTS085	36" x 36"



Engineer-Grade Prismatic Part No.	High-Intensity Prismatic Part No.	Size
PTS141	PTS140	24" x 24"
PTS143	PTS142	30" x 30"
PTS145	PTS144	36" x 36"

Speed Limit Signs









Engineer-Grade Prismatic				High-Intensity Prismatic				
SPEED LIMIT 5 Part No.	SPEED LIMIT 10 Part No.	SPEED LIMIT 15 Part No.	SPEED LIMIT 20 Part No.	SPEED LIMIT 5 Part No.	SPEED LIMIT 10 Part No.	SPEED LIMIT 15 Part No.	SPEED LIMIT 20 Part No.	Size
PTS103	PTS091	PTS093	PTS095	PTS102	PTS090	PTS092	PTS094	18" x 12"
PTS123	PTS111	PTS113	PTS115	PTS122	PTS110	PTS112	PTS114	24" x 18"

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Parking Signs

Material – Engineer-Grade Prismatic



18" x 12" **PTS051**



18" x 12" **PTS053**



18" x 12" **PTS054**



18" x 12" **PTS052**



18" x 12" **PTS055**



18" x 12" **PTS056**



18" x 12" **PTS057**



18" x 12" **PTS065**



18" x 12" **PTS069**



18" x 12" **PTS067**



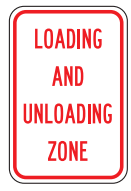
18" x 12" **PTS068**



18" x 12" **PTS070**



18" x 12" **PTS063**



18" x 12" **PTS058**



18" x 12" **PTS066**



18" x 12" **PTS064**



18" x 12" **PTS061**



18" x 12" **PTS059**



18" x 12" **PTS060**



18" x 12" **PTS062**


18" x 12" **PTS005**



18" x 12" **PTS004**



18" x 12" **PTS006**



18" x 12" **PTS001**



18" x 12" **PTS007**



18" x 12" **PTS003**



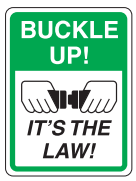
18" x 12" **PTS002**

Traffic Direction Signs

Material – Engineer-Grade Prismatic



24" x 18" **PTS198**



24" x 18" **PTS200**



18" x 12" **PTS147**



18" x 12" **PTS149**



24" x 18" **PTS089**



24" x 18"
Arrow rt. **PTS196**
Arrow lt. **PTS194**



24" x 18" **PTS087**



18" x 24" **PTS082**



18" x 24" **PTS077**
18" x 30" **PTS079**



24" x 24" **PTS190**
30" x 30" **PTS192**



18" x 18" **PTS151**



18" x 18" **PTS153**



18" x 12" **PTS165**



18" x 12" **PTS167**

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Spring-Less Sign Stand



Economy-grade, roll-up stand for use in moderate winds and light traffic conditions.

- Opens quickly and easily to a wide, 66 1/2" x 43 1/2", stable footprint
- Folds to compact size, 6 1/2" x 8 1/2" x 25"
- Powder-coated, galvanized steel frames with non-slip rubber tips
- Weight: 22 lbs.
- For use with 36" or 48" diamond shaped roll-up construction signs with fiberglass cross-ribs (sold separately on next page)
- Meets Manual on Uniform Traffic Control Devices (MUTCD) specifications



NCHRP-350 compliant.

Part No.	UOM
PTS201	Each

Single Spring Sign Stand



Single coil spring-loaded design adds stability and flexibility to stand up to wind loads and gusts.

- Leg levers for easy deployment – opens to a wide footprint of 67 1/2" x 42"
- Ergonomic design also allows users to lift up on legs to drop them into place
- Folds to compact size, 8" x 6" x 25 1/4"
- Powder-coated, galvanized steel frames with non-slip rubber tips
- Weight: 24 lbs.
- For use with 36" or 48" diamond shaped roll-up construction signs with fiberglass cross-ribs (sold separately on next page)
- Meets Manual on Uniform Traffic Control Devices (MUTCD)specifications



NCHRP-350 compliant.

Part No.	UOM
PTS202	Each

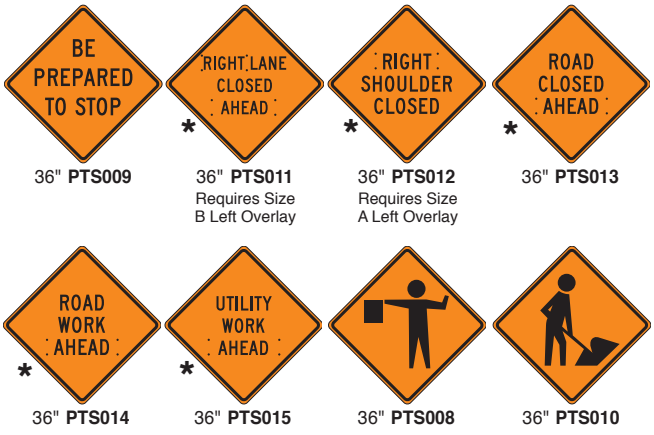
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Roll-Up Construction Signs

Quickly set up highly visible signs for temporary warning of hazard and construction areas.

- Flexible fabric, quick and easy to setup and takedown – roll up for compact storage and portability
- Safety orange with contrasting black messages and symbols
- Cross-Ribs (sold separately) insert into four corner pockets, providing rigid support
- Overlay signs snap on to change directional or distance message

Materials:
Mesh Vinyl (V) – Non-reflective, ideal for daytime only applications
Fluorescent Vinyl (F) – Non-reflective, UV stable bright colored vinyl for daytime use only
Reflective Vinyl (R) – High-Intensity retro-reflective fiber reinforced nylon fabric, ideal for attention getting and low-light conditions



36" **PTS009**
36" **PTS011** Requires Size B Left Overlay
36" **PTS012** Requires Size A Left Overlay
36" **PTS013**
36" **PTS014**
36" **PTS015**
36" **PTS008**
36" **PTS010**

*Available Overlays

Size A


for 36" **PTS016**

Size B


for 36" **PTS017**



for 36" **PTS018**



for 36" **PTS019**



To Order: Add material & size code after part number.
Example: Part No. PTS009 + Material/Size Code V36 = PTS009V36

Material & Size Code		Signs 36"	Overlays* 36"
Mesh Vinyl	**V36**	Each	Each
Fluorescent Vinyl	**F36**		
Reflective Vinyl	**R36**		

Cautionary Signs





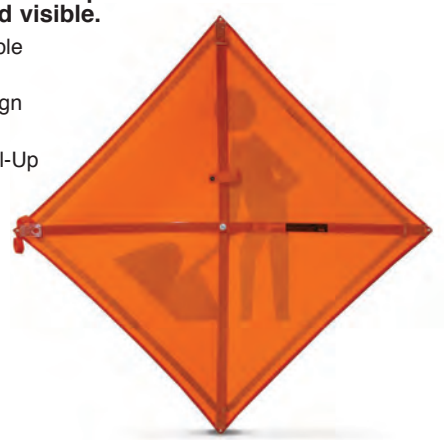
Engineer-Grade Prismatic		High-Intensity Prismatic		
SLOW Part No.	PEDXING Part No.	SLOW Part No.	PEDXING Part No.	Size
PTS163	PTS161	PTS162	PTS160	24" x 24"
—	PTS170	—	PTS169	30" x 30"

Cross-Ribs

Rigid support keeps roll-up signs deployed and visible.

- Constructed of durable fiberglass material
- Inserts into roll-up sign four-corner pockets
- For use with 36" Roll-Up Construction Signs

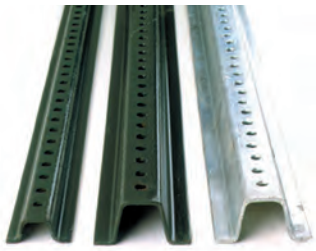
Part No.	UOM
PTS203	Each



Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Steel U-Channel Posts



Everything you need to post-mount your sign.

- Available in 2 colors, green or galvanized
- Two lengths – 6-ft., 8-ft.
- Hardware set (sold separately) includes – 2 bolts, 2 nuts, 4 washers

Price per Each

Length	Green Finish		Galvanized Finish	
	Part No.	UOM	Part No.	UOM
Standard Weight – 1.12 lb/foot				
6-ft.	PTS174	Each	PTS175	Each
Heavy Weight – 2.00 lb/foot				
6-ft.	PTS173	Each	PTS172	Each
8-ft.	PTS176		PTS177	
Description			**Part No.**	**UOM**
Hardware Set			PTS171	Set

Sign Mounting Brackets and Plate



Fence Mount Brackets

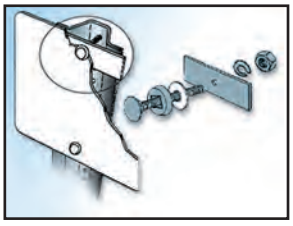
- Easily secure your sign to a chain link fence
- Rust-proof aluminum with mounting holes to attach sign through fence spaces

Part No.	Fits Sign	UOM
PTS183	12"H	Each
PTS184	18"H	
PTS185	24"H	

Sign Mounting Plate

- Keep signs flat when mounting to U-Channel post
- Includes adaptor ringbolt, washer, plate and hex nut
- Two sets required per sign

Part No.	UOM
PTS182	Set



Fence Sign Holder Bracket





Post signs and warnings on chain link fences.

- Galvanized steel bracket
- Universal to work with nearly any size chain link fence
- Protects signs from damage by distributing pressure along the surface area of the bracket
- Two brackets required for post mounting
- Includes 5/16"-18 thread, 3/4" long stainless steel bolt and nylon washer – works well for use with 3/8" sign mounting holes
- Sized to fit most signs

Part No.	UOM
PBB0080	Each

Cast Iron Base and Steel Post

Mount signs with stable post and weighted base that can be moved as needed.

- Solid, heavyweight cast iron base available in 14" and 18" diameters
- 1 7/8" outside diameter x 48"H steel post can accommodates sign sizes up to 24" x 24"
- Sign mounting hardware included

Part No.	Base Size	Weight	UOM
PTS179	14" dia.	27 lbs.	Each
PTS180	18" dia.	37 lbs.	



Optional wheel attachment for easy tilting and moving – fits 14" base only.

Part No.	UOM
PTS178	Each



Sign sold separately

Portable Sign Stand

Ideal for temporary applications or crosswalks.

- 6-ft., white powder-coated steel post with pre-drilled mounting holes
- Base plate with locking pin, and a road-gripping, 40 lb., recycled rubber base
- When disassembled, bases nest for easy storage
- NCHRP-350 compliant

Part No.	Description	UOM
PTS181*	Portable Sign Stand	Each

*Sign sold separately

Part No.	Description	UOM
PTS154	Stop Sign Kit	Kit

Includes – (1) Portable Sign Stand, (1) 24" x 24" Engineer-Grade Prismatic Aluminum Stop Sign, (1) Hardware Set



Blinker Signs

Maximum Visibility in any Environment.

- Flashing LED lights, combined with DG High-Prism sheeting, provide superior luminance and visibility
- Eco-friendly, 13 watt solar panel, 6VDC battery charger require no AC
- Low power allows for smaller panel and cleaner look
- LED automatically measures available light and adjusts the LED flash brightness accordingly
- Up to 30 day autonomy (flashing 24/7)
- Heavy-duty aluminum construction with fully enclosed wiring withstands harsh elements
- Attaches to 2 3/8" post with mounting brackets (sold separately)
- MUTCD-compliant for public roadway use

Size	UOM
30" x 30"	Each



30" x 30"
PTS155

30" x 30"
PTS156

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Security Stop Safety Signs



12" x 12"
B4221



12" x 12"
B4203



12" x 12"
B4209



12" x 12"
B4219



12" x 12"
B4201

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	**PVS**	12" x 12"	**1212**
Polyester Laminated Vinyl (Each)	**PLVS**		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **1212**
3. Select Sign Base Part Number: **B4201**
4. Combine Codes in Specific Order for Complete Part Number: **PVS1212B4201**



Speed Bump Signs

Engineer-Grade Prismatic – Good choice for added visibility in low-light conditions



24" x 24" **PTS159**
30" x 30" **PTS158**



18" x 12"
PTS157



18" x 12"
PTS167



18" x 12"
PTS168

Non-Regulatory Traffic Signs

These signs are on non-reflective material. Intended for indoor or non-public roadway use.



12" x 12" 18" x 18" 24" x 24
B4472



12" x 12" 18" x 18" 24" x 24
B4481



12" x 12" 18" x 18"
B4477



12" x 12" 18" x 18"
B4939



12" x 12" 18" x 18"
B4933

Available Materials	Codes	Available Sizes	Codes
Adhesive Vinyl (Each)	**PVS**	12" x 12"	**1212**
Polyester Laminated Vinyl (Each)	**PLVS**	18" x 18"	**1818**
Polyethylene Plastic (Each)	**PRS**	24" x 24"	**2424**
Aluminum (Each)	**PAS**		

How to Order Signs:

1. Select Material Code: **PVS**
2. Select Size Code: **1212**
3. Select Sign Base Part Number: **B4481**
4. Combine Codes in Specific Order for Complete Part Number: **PVS1212B4481**

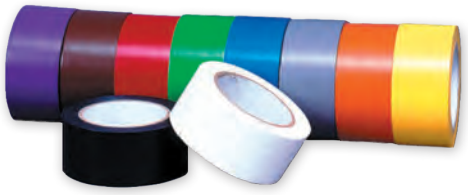


Order number of pieces required, in multiples of Standard Package Quantity.

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Marking Tapes

Colors and combinations meet specific industry and OSHA 29 CFR §1910.144 warning requirements





Mark specific areas and promote safety by identifying potential hazard areas with visible tapes.



- 0.006" vinyl adheres to floors, walls, piping, posts, beams, handrails, stairways, machinery, and equipment
- Waterproof, wear-resistant, minor resistance to acids, oils, grease, caustics, alkalis, and most solvents
- Permanent self-adhesive back

Color/Combination	Code	Application
Solid Colors		
White	WHT	General Facility
Gray	GRY	
Brown	BRN	
Black	BLK	
Red	RED	Fire Protection Equipment & Danger Hazards
Orange	ORN	Danger Points on Machines
Yellow	YEL	Physical Hazards
Green	GRN	First Aid & Safety Equipment
Blue	BLU	Machinery being Worked On
Purple	PUR	X-ray & Radiation Hazards
Checkerboard and Stripe Pattern		
Black/Yellow	BY	General, Physical Hazards
Red/White	RW	Fire Protection & Equipment
Black/White	BW	Housekeeping, Aisles, Traffic, & Passageways
Magenta/Yellow	MY	Radiation Areas
Green/White	GW	Safety & First Aid
Blue/White	BLW	Defective Equipment
Orange/White	OW	Traffic and Caution

To Order: Add color code after part number.
Example: Part No. PFM2X36 + Color Code WHT = PFM2X36WHT

Part No.	Size	UOM
Solid Colors		
PFM2X36	2" x 108-ft.	Roll
PFM2X60	2" x 180-ft.	
Checkerboard Pattern		
PFMC2X18	2" x 54-ft.	Roll
Stripe Pattern		
PFM2X18	2" x 54-ft.	Roll
PFM2X36	2" x 108-ft.	

Part No.	Size	UOM
Solid Colors		
PFM3X36	3" x 108-ft.	Roll
PFM3X60	3" x 180-ft.	
Checkerboard Pattern		
PFMC3X18	3" x 54-ft.	Roll
Stripe Pattern		
PFM3X18	3" x 54-ft.	Roll
PFM3X36	3" x 108-ft.	

Reflective Tapes



- Safety-grade with 'bounce-back' reflectivity
- Improved daytime, low-light and night time visibility
- 0.0055" thick urethane tape
- Permanent adhesive with peel-off liner
- Suitable for outdoor use on poles, barricades, fences, buildings, private roads, and off-road vehicles

Available colors with color code:

Color	Code
Solid Colors	
Black	BLK
Blue	BLU
Green	GRN
Orange	ORN
Red	RED
White	WHT
Yellow	YEL
Stripe Colors	
Black/White	BW
Black/Yellow	BY
Orange/White	OW
Red/White	RW

To Order: Add color code after part number.
Example: Part No. PFMR2X15 + Color Code BW = PFMR2X15BW

Part No.	Size	UOM
PFMR2X15	2" x 15-ft.	Roll
PFMR2X30	2" x 30-ft.	
PFMR3X15	3" x 15-ft.	

Message Marking Tapes

Use marking tape with specific message to point out potential hazard areas.

- Bold contrasting message printed repeatedly
- 6-mil vinyl adheres to floors, walls, and equipment
- Clear overlaminate protective film resists dirt, light chemicals and light abrasions
- Permanent, self-adhesive back
- 2" x 54-ft. rolls

UOM
Roll



PFM0114



PFM0115



PFM0116

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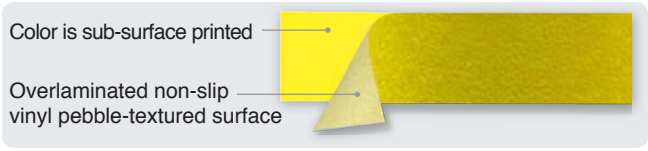
Non-Slip Floor Marking Tapes



Use non-slip tapes to mark and identify aisles, pathways, and designated locations in your facility.

Sub-surface printed 0.004" vinyl tapes are overlaminated with a 0.017" clear, protective pebble-textured tread. The dimpled non-slip surface is ideal for pedestrian traffic areas.

- Dual-layer, color vinyl and clear textured vinyl construction
- Strong acrylic-based adhesive peel-off back liner
- Adhere to clean, smooth, dry surface
- Service temperature range: -20° to 140°F
- Available in solid colors or with messages



To Order Solid Color Tapes:
Add color code after part number: Red – RED, Orange – ORN, Yellow – YEL, Green – GRN, Blue – BLU, White – WHT, Black – BLK.
Example: Part No. PFMT2X100 + Color Code YEL = PFMT2X100YEL



Part No.	Size	UOM
PFMT2X100	2"W x 100-ft.	Roll
PFMT3X100	3"W x 100-ft.	

Message Tapes

Size	UOM
3"W x 50-ft.	Roll



PFM0598



PFM0600



PFM0599



PFM0597



PFM0601

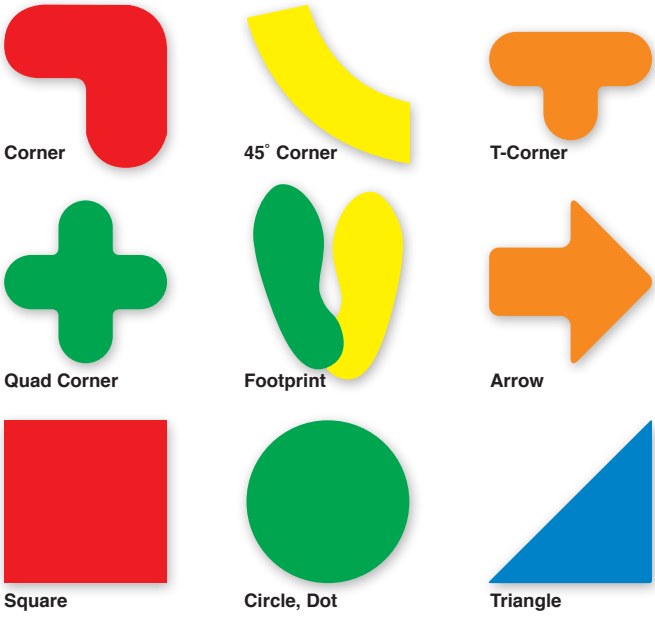
Non-Slip Floor Marking Shapes

Mark pallets, storage, and walkways in your facility – ideal for 5S programs.

- Self-adhesive 0.004" vinyl
- Protective non-slip, pebble-textured overlaminate
- Strong acrylic-based adhesive peel-off back liner
- Adhere to clean, smooth, dry surface
- Service temperature range: -20° to 140°F







To Order: Add color code after part number: Red – RED, Orange – ORN, Yellow – YEL, Green – GRN, Blue – BLU, White – WHT, Black – BLK.
Example: Part No. PFMTS09 + Color Code GRN = PFMTS09GRN

Part No.	Size	UOM
Corner		
PFMTS09	6" x 6"	Each
PFMTS10	12" x 12"	
45˚ Corner		
PFMTS20	6"	Each
PFMTS19	12"	
T-Corner		
PFMTS11	6" x 9"	Each
PFMTS12	8" x 12"	
Quad Corner		
PFMTS17	9" x 9"	Each
PFMTS18	12" x 12"	
Part No.	**Length**	**UOM**
Footprints		
PFMTS01	6"	Pair
PFMTS02	12"	

Part No.	Size	UOM
Arrow		
PFMTS14	3"	Each
PFMTS15	6"	
PFMTS16	12"	
Square		
PFMTS05	3" x 3"	Each
PFMTS06	6" x 6"	
Circle, Dot		
PFMTS03	3" dia	Each
PFMTS04	6" dia	
Triangle		
PFMTS07	3"	Each
PFMTS08	6"	

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Floor Marking Shapes

Mark directional traffic paths or hazardous areas on floors, stairways, and walls.

- 0.005" vinyl
- Individually die-cut shapes
- Aggressive, permanent, self-adhesive back
- Peel-off liner

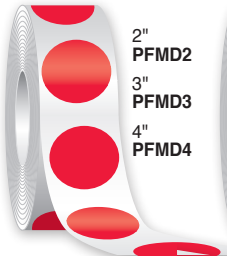


Available colors with color code:
Red – RED, Blue – BLU, Green – GRN, Black – BLK, Yellow – YEL, Orange – ORN, White – WHT

To Order: Add color code after part number.
Example: Part No. PFMD2 + Color Code BLU = PFMD2BLU

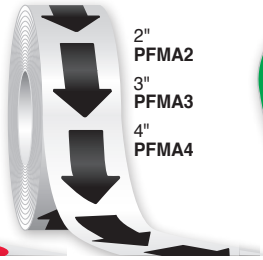
Size*	Std. Pkg. Qty.	UOM
2"	250	Roll
3"		
4"	100	Roll
6"	5 Pair	Pkg.
12"		

Dots



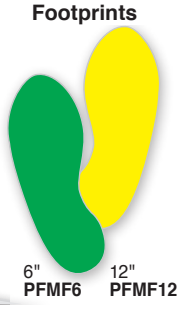
*Size for: Dot by diameter

Arrows



*Size for: Arrow measured by width of point

Footprints



*Size for: Footprint is 6" or 12" length

Glow-in-the-Dark Tapes & Shapes

Glows

Visibility and safety in emergency blackout situations

- Photoluminescent tapes and shapes store energy from any light source
- 10-hour glow rating
- 0.010" polyester with laminated gloss surface
- Permanent adhesive backing with peel-off liner

MEETS STANDARDS ASTM DIN IMO ISO MEETS STANDARDS MEETS STANDARDS



Glow-in-the-Dark Tapes

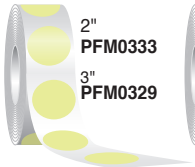
Solid Color		Stripe Pattern		Arrow Pattern		
Part No.	UOM	Part No.	UOM	Part No.	UOM	Size
PFM0243	Roll	PFM0246	Roll	PFM0249	Roll	2" x 15-ft.
PFM0244		PFM0247		PFM0250		2" x 30-ft.
PFM0245		PFM0248		PFM0251		3" x 15-ft.



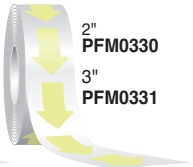
Glow-in-the-Dark Shapes

Size	Std. Pkg. Qty.	UOM
2"	50	Roll
3"		
6"	1 Pair	Pkg.
12"		

Dots



Arrows



Footprints



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Non-Skid Floor Tapes

Create a high-traction surface to prevent slips, trips, and falls.

OSHA 29 CFR §1910.24 (f)

- Durable surface provides good grip, wear resistance, and water resistance
- Suitable for indoor and outdoor environments
- Resists sliding, buckling, wrinkling, and peeling
- Black tape is 60-grit aluminum oxide compound layer fused onto thick PVC base; colored and striped tapes are 46-grit
- High-tack acrylic adhesive back
- Peel-off liner

NFSI CERTIFIED





Part No.	Size	UOM
Solid Black		
PFM0090	1" x 60-ft.	Roll
PFM0092	2" x 60-ft.	
PFM0094	3" x 60-ft.	
PFM0095	4" x 60-ft.	
PFM0097	6" x 60-ft.	





Part No.	Size	UOM
Solid Yellow		
PFM0091	1" x 60-ft.	Roll
PFM0093	2" x 60-ft.	
PFM0096	4" x 60-ft.	
Striped Black/Yellow		
PFM0103	2" x 60-ft.	Roll
PFM0105	4" x 60-ft.	





- Muted yellow appearance masks dirt and grime

Part No.	Size	UOM
Muted Yellow w/ Black Particles		
PFM0107	2" x 60-ft.	Roll
PFM0108	4" x 60-ft.	

Non-Skid Floor Signs

High-traction, anti-skid, clear grit surface. 6" x 24". Sub-surface printed vinyl floor signs. High-tack, acrylic adhesive back. Peel-off liner.

UOM
Each




PFM0040



PFM0041



PFM0045



PFM0044


PFM0042



PFM0046



PFM0043



PFM0047

Non-Skid Floor Shape Tapes

Get a finished look to your anti-skid tapes in pre-cut shapes.

NFSI CERTIFIED



- Rounded corners to prevent corners from lifting
- Aggressive 60-grit aluminum oxide compound layer fused onto a thick PVC base
- Peel-off liner with high-tack acrylic adhesive back
- Suitable for indoor and outdoor environments, water resistant



Part No.	Description	Size	UOM
PFM0110	Square	5 1/2" x 5 1/2"	Each
PFM0109	Wide Strip	3" x 24"	
PFM0111	Cleat	6" x 24"	
PFM0112	Cleat w/ Refl. Yellow		
PFM0113	Cleat w/ Glow		

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

High Performance Marking Tapes

Heavy-duty composite tape outperforms standard floor marking tapes.

Printed 0.002" polyester tape with 2-mil gloss overlaminate provides superior durability for industrial facility and high plant traffic.

- High-gloss surface resists marks and smudges
- Resistant to abrasions, water, chemicals and heat
- High tack, acrylic adhesive back minimizes peel or lift
- Applies to clean, non-coated, smooth or rough surfaces, including concrete
- Low-profile reduces tears and scratches from skids and pallet jacks
- Removes easily without leaving residue or damage to the floor
- Minimum application temperature: 50°F
- Available in solid colors or with messages





To Order Solid Color Tapes: Add color code after part number: Red – RED, Orange – ORN, Yellow – YEL, Green – GRN, Blue – BLU, White – WHT, Black – BLK.
Example: Part No. PFMH2X100 + Color Code BLK = PFMH2X100BLK

Part No.	Size	UOM
PFMH2X100	2"W x 100-ft.	Roll
PFMH3X100	3"W x 100-ft.	

Message Tapes

Size	UOM
3"W x 50-ft.	Roll



PFM0268



PFM0270



PFM0269



PFM0267



PFM0266

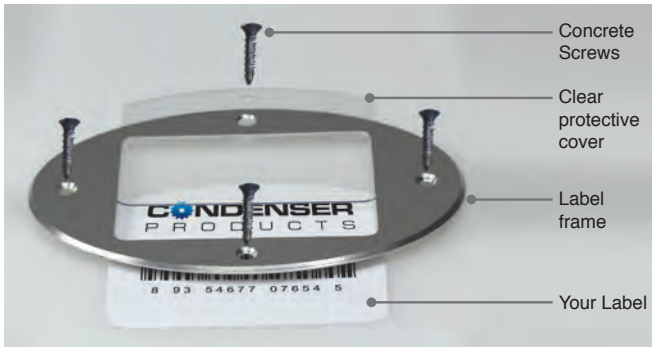


PFM0271

Floor Label Frame System

Place and protect message, barcode and other identification on the floor in a sturdy frame system.

Metal frame mounts directly to the floor with four concrete screws (included) and contains a clear protective cover to protect your label (not included) underneath. Beveled edges prevent damage from rollover of pallet jacks and forklift vehicles.



Small size:

- 8 1/2" x 5 1/2" x 1/8" all-aluminum oval frame
- 3 1/2" x 5" x 0.063" clear visible protective polycarbonate cover

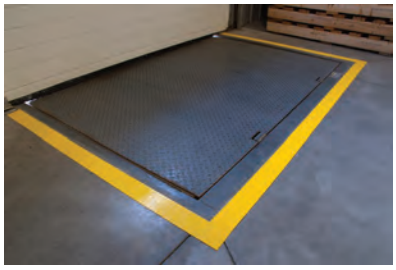
Large size:

- 12" x 7 1/2" x 1/8" all-aluminum oval frame
- 5" x 7" x 0.063" clear visible protective polycarbonate cover

Small Part No.	Large Part No.	Std. Pkg. Qty.	UOM
PBB0085	PBB0086	Each	Each
PBB0081	PFM0001	10	Pkg.
PBB0083	PFM0002	25	
PBB0084	PFM0003	50	
PBB0082	PFM0004	100	

Textured Marking Tapes

Low-profile grip vinyl tapes are ideal for indoor/outdoor and wet or dry environments.



- Reinforced vinyl with weather-proof adhesive system
- Slip-resistant, mild abrasive surface
- Install on smooth, clean and dry surfaces
- Low level reflectivity
- 3"W x 108-ft. long rolls
- Service temperature range: 0° to 150°F-



To Order: Add color code after part number: Red – RED, Blue – BLU, Yellow – YEL, White – WHT, Green – GRN.
Example: Part No. PFMT3X36 + Color Code YEL = PFMT3X36YEL

Part No.	UOM
PFMT3X36	Roll

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Non-Slip Shape Floor Signs

Grab attention with non-slip floor message signs.

- Bold colors and graphics in unique shapes
- Self-adhesive vinyl floor signs are sub-surface printed
- Overlaminated with pebble-textured, non-slip layer
- Can withstand heavy foot traffic
- Permanent adhesive back with peel-off liner
- Signs adhere to smooth, clean, and dry surface

Diamond



17" PFM0054



17" PFM0055



17" PFM0056



17" PFM0057



17" PFM0058



17" PFM0059



17" PFM0060



17" PFM0062



17" PFM0061

Triangle



17" PFM0071



17" PFM0074



17" PFM0072



17" PFM0073



17" PFM0075



17" PFM0076

Pavement-Print Signs



Place message and graphic signs outdoors on pavement.

- Adheres to asphalt, concrete and step-stones
- Conforms to rough, untreated surfaces like stone and cement
- High-performance adhesive back, foil-base material
- Non-laminate surface contains embedded glass beads for a non-slip texture - meeting NFSI and ASTM D2047 specifications
- Withstands normal to heavy walking foot traffic and other abrasions
- Apply to swept, clean, dry surface
- Application temperature range: 50° to 100°F
- For short- to long-term applications
- Removes easily, usually without any residues



17" PFM0083



17" PFM0082



17" PFM0078



17" PFM0088



17" PFM0080



17" PFM0081



17" PFM0085



17" PFM0079



17" PFM0087



17" PFM0077



17" PFM0089



17" PFM0086



17" PFM0084

Order number of pieces required, in multiples of Standard Package Quantity.

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Non-Slip Floor Signs

Non-slip, pebble-textured, clear surface withstands heavy pedestrian traffic. Image is sub-surface printed. Permanent, self-adhesive vinyl with peel-off liner.

Description	UOM
Round-Style	Each
Round-Style Glow Adhesive	
Mat-Style	
Step-Style	



Round-Style



17" PFM0009



17" PFM0029



17" PFM0033



17" PFM0030



17" PFM0016



17" PFM0011



17" PFM0008



17" PFM0031



17" PFM0020



17" PFM0026



17" PFM0022



17" PFM0027



17" PFM0017



17" PFM0018


17" PFM0023



17" PFM0034



17" PFM0010



17" PFM0028



17" PFM0015



17" PFM0019



17" PFM0013



17" PFM0025



17" PFM0021



17" PFM0036



17" PFM0012



17" PFM0032



17" PFM0014



17" PFM0037



17" PFM0024



17" PFM0035

Mat-style



20" x 14" PFM0063



20" x 14" PFM0069



20" x 14" PFM0064



20" x 14" PFM0065



20" x 14" PFM0067



20" x 14" PFM0068



20" x 14" PFM0066



20" x 14" PFM0070

Step-Style



6" x 24" PFM0048



6" x 24" PFM0053



6" x 24" PFM0051



6" x 24" PFM0050



6" x 24" PFM0052



6" x 24" PFM0049

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Cone Top Warning Signs

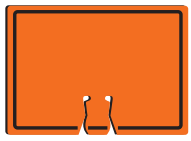


Cone sold separately

Temporarily and quickly direct facility traffic.

- Slips into top of any standard, flexible traffic cone
- Rugged, 0.060" plastic
- Same message both sides
- Weather- and fade-resistant
- 10" x 14"

UOM
Each



PBB0067



PBB0072



PBB0077



PBB0070



PBB0071



PBB0069



PBB0068



PBB0073



PBB0074

Pennant Flag Tapes

Attention-getting pennant flag tapes warn of hazardous areas.

Standard style

- 9" x 12" red, polyethylene plastic pennants
- Sewn onto durable cord - approx. 66" lead cord each end
- Ideal for indoor and temporary outdoor applications

Heavy-Duty style

- Large 18" x 18" fluorescent orange 9-oz. vinyl laminated, nylon pennants
- Tough, tear-resistant
- Sewn onto high-tensile strength cord - approx. 20-ft. lead each end
- Ideal for extended periods outdoors, withstands harsh conditions

OSHA-Compliant style

- Large 18" x 18", fluorescent orange 9-oz. vinyl laminated, nylon pennants
- Sewn onto heavy-duty reinforced chord that exceeds OSHA's 500 lb. tensile strength requirements
- Meets OSHA 1926.502(f)(2)(iv) withstanding the harshest conditions



Part No.	Description	No. of Pennants	UOM
Standard			
PBB0025	60-ft.	36	Each
Heavy-Duty			
PFM0038	83-ft.	15	Each
PBB0004	113-ft.	25	
OSHA-Compliant Style			
PFM0039	83-ft.	15	Each
PBB0003	113-ft.	25	

Cones

Brightly colored cones are ideal to mark hazardous areas.

- Durable, flexible spring-back design
- Molded PVC (Poly-Vinyl-Chloride) plastic
- UV stabilizers for fade resistance
- Stackable for easy transport and storage

Meets applicable MUTCD and State Standards



Part No.	Height	Weight	UOM
All Red/Orange - Standard			
PBB0165	12"	1.5 lbs	Each
PBB0126	18"	3 lbs	
PBB0167	28"	7 lbs	
PBB0169	36"	10 lbs	
PBB0170		12 lbs	
All Red/Orange - w/ reflective collars			
PBB0017	28"	7 lbs	Each
PBB0022	36"	12 lbs	
Fluorescent Yellow/Green - Standard			
PBB0166	18"	3 lbs	Each
PBB0168	28"	7 lbs	
PBB0171	36"	10 lbs	

Universal Cone Adapter

Universal Cone Adapter fits most standard traffic cones.

- Quickly and easily mount signs, flags and lights
- Can also be used with rope or barricade tape to form various sized barriers

Orange No.	Yellow Part No.	UOM
PBB0065	PBB0066	Each



Sign and cone sold separately

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Underground Hazard Tape



- Polyethylene (HTU, HTB) materials
- Temperature range: -30°F to 200°F (-34°C to 93°C)
- Detectible Laminated Aluminum (HTDU) materials temper
- Temperature range: -30°F to 220°F (-34°C to 104°C)
- Pre-Printed
- Indoor/outdoor rated
- Designed for direct burial
- Highly visible legend is protected from abrasion and chemicals
- Resistant to UV light, chemical atmosphere, and abrasion
- Will not biodegrade

Part Number	Legend	Color (Legend/Background)	Height		Length		Std. Pkg. Qty.
			In.	mm	Ft.	m	
Laminated Detectable Aluminum							
HTDU3O-FO	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	3.00	76.00	1000.00	305.00	1
HTDU3O-T	CAUTION TELEPHONE LINE BURIED BELOW						
HTDU3R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	3.00	76.00	1000.00	305.00	
HTDU6O-FO	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	6.00	152.00	1000.00	305.00	1
HTDU6O-T	CAUTION TELEPHONE LINE BURIED BELOW						
HTDU6R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	6.00	152.00	1000.00	305.00	
Polyethylene							
HTU3G-T-M	CAUTION TELEPHONE LINE BURIED BELOW	Black/Green	3.00	76.00	1000.00	305.00	1
HTU3O-FO-M	CAUTION BURIED FIBER OPTIC CABLE	Black/Orange	3.00	76.00	1000.00	305.00	
HTU3O-T-M	CAUTION TELEPHONE LINE BURIED BELOW						
HTU3R-E-M	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	3.00	76.00	1000.00	305.00	
HTU3Y-E-M		Black/Yellow					
HTU6R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	6.00	152.00	1000.00	305.00	
HTU6O-FO	CAUTION BURIED FIBER OPTIC CABLE	Black/Orange	6.00	152.00	1000.00	305.00	1
HTU6O-T	CAUTION TELEPHONE LINE BURIED BELOW						
HTU6O-TV	CAUTION CABLE TV LINE BURIED BELOW						
HTU6Y-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Yellow	6.00	152.00	1000.00	305.00	
HTU6Y-G	CAUTION GAS LINE BURIED BELOW						

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Plastic Barricade Tapes

Quick and effective temporary way to section-off hazards and danger zones.

- Bold warning message continuously repeated the length of the roll
- Lightweight, 0.003" polyethylene plastic
- Durable for indoor and outdoor environments
- Easily cut and secure with nails, tape, staples or tie-off
- 3" x 1000-ft.





PBB0034



PBB0041



PBB0076



PBB0040



PBB0037



PBB0038



PBB0036



PBB0035



PBB0030



PBB0039



PBB0029



PBB0031



PBB0033



PBB0032


PBB0042


PBB0175

UOM
Roll

Comply with requirements of ANSI Z535.5-3.2

Woven Barricade Tapes





Mark off hazard areas with extra-strong, durable polypropylene tapes.

- Woven polypropylene
- 300-lbs. tensile strength
- Chemical- and weather-resistant
- Ideal outdoor use
- Reusable
- 2" x 200-ft. rolls

Part No.	Color	UOM
PBB0173	Black/Red	Roll
PBB0174	Black/Yellow	

Barricade Rope

Mark off restricted and hazardous areas with high visibility rope.

- Twisted strands in two-tone, contrasting safety colors
- 5/16" diameter polypropylene
- Floats, resistant to mildew and light chemical exposure
- 600-ft. per roll



Black/Yellow Part No.	Magenta/Yellow Part No.	Red/White Part No.	UOM
PFM0005	PFM0006	PFM0007	Roll

Reflective Plastic Barricade Tapes



Get reflective visibility in low light areas.

- 0.003" polyethylene tape
- Words alternate in black and reflective silver print
- 3" x 1000-ft.

UOM
Roll



PBB0023



PBB0024

Order number of pieces required, in multiples of Standard Package Quantity.

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Free Standing Signs

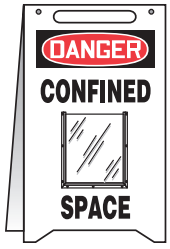


Set out free-standing signs to identify temporary hazardous conditions.

- Panels have message on both sides
- Rugged 0.125" thick high-impact plastic
- Folds flat for transport and storage
- 20"H x 12"W

UOM
Each

7" x 5" clear pocket for holding a tag or folded permit sheet.



PBB0075



PBB0097



PBB0099



PBB0100



PBB0098



PBB0101



PBB0108



PBB0058



PBB0087



PBB0092



PBB0093



PBB0094



PBB0095



PBB0091



PBB0096



PBB0103



PBB0105



PBB0104



PBB0089



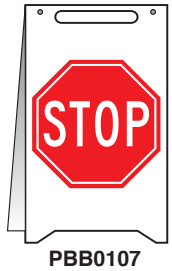
PBB0090



PBB0102



PBB0088



PBB0107



PBB0106

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Reversible Free Standing Signs

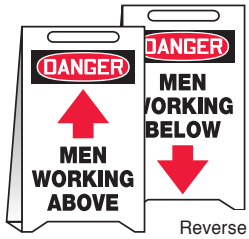
Mark temporary hazards with lightweight plastic stand-up signs.

- Versatile - two signs in one
- Economical - ideal for limited purposes or disposable for one-time use
- Flip and fold sign inside-out to reveal second message
- Lightweight, waterproof corrugated plastic with fold-and-insert-tab
- Stands 20"H x 12"W
- Carry handle cut-out on top
- Folds flat





PBB0130



PBB0132



PBB0128



PBB0134



PBB0135



PBB0136



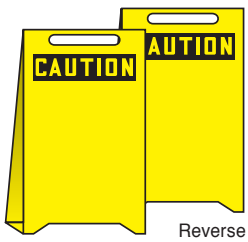
PBB0129



PBB0131



PBB0137



PBB0127



PBB0133

UOM
Each

Molded 2-Sided Free Standing Signs



PBB0018

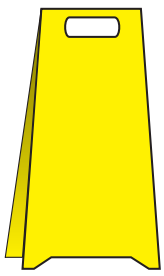
Open up floor signs to mark temporary hazards.

- Sturdy molded plastic to withstand elements indoors and outdoors
- Message on both sides of the 12"W x 25"H free standing signs stand-up floor sign
- Easy-carry handle
- Sign folds flat for storage

UOM
Each



PBB0020



PBB0021



PBB0019

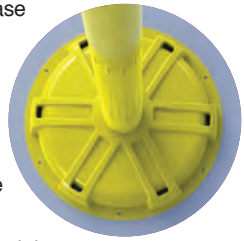
Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Stanchion Post



Unique, industrial design ideal for plant or facility.



- All-plastic, yellow, polyethylene post and base
- 3" dia. post stands 38"H with 16"W, low-profile fillable base
- Base has pre-drilled holes to secure to floor
- Snap lock ensures post will not pull out from base when lifted and moved
- Breaks down and stacks for compact storage
- Finishing cap and C-Hooks included
- Optional color striping in standard and specialty reflective, fluorescent, or glow-in-the-dark
- Connect several posts with 2" x 1" x 1/4" plastic chain links sold separately by the foot

Standard Yellow Post

Part No.	Height	UOM
PBB0149	38"	Each

Striped Post

Yellow Post w/ Standard Color Vinyl Stripe

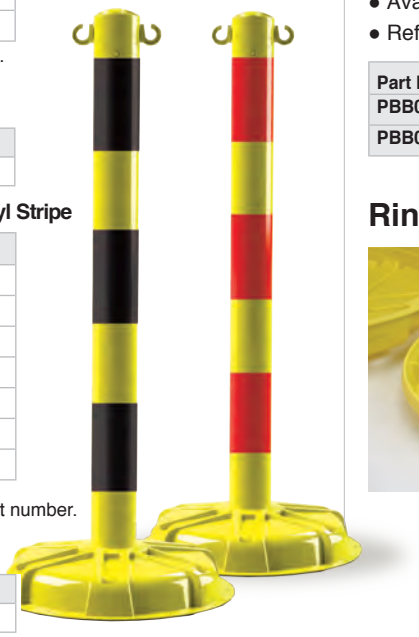
Color	Code
Red	RED
Green	GRN
Black	BLK
White	WHT
Blue	BLU
Orange	ORN
Magenta	MAG

Add stripe color code after part number.
Example: Part No. PBB0150 +
Color Code MAG = PBB0150MAG

Part No.	Height	UOM
PBB0150	38"	Each

Yellow Post w/ Specialty Color Vinyl Stripe

Color	Code
Reflective Red	RRED
Reflective Yellow	RYEL
Reflective White	RWHT
Fluorescent Red	REDF
Fluorescent Orange	ORNF
Fluorescent Green	GRNF
Glow-in-the-Dark	GLOW



Add specialty stripe color code after part number.
Example: Part No. PBB0152 +
Color Code RRED = PBB0152RRED

Part No.	Height	UOM
PBB0152	38"	Each

Barrier Cone Bars





Cones sold separately

In an immediate situation, deploy a bar – placed between two traffic cones – to create a quick and temporary visible barrier.

- Portable, expandable barrier bar
- Ring-ends fit over traffic cones
- Expands up to 6 1/2-ft.
- Collapses to 4-ft. for storage and transport
- Available in two contrasting colors
- Reflective strips for visibility in low light conditions

Part No.	Color	UOM
PBB0078	Black/Yellow	Each
PBB0079	Orange/White	

Ring Weight



Prevent post from easily tipping. Fill vinyl ring weight with water to add 3-lbs. for stability. The 11 3/4" x 1" ring weight fits and conceals inside the base of the post.

Part No.	UOM
PBB0148	Each

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chain Links

- Lightweight, yet strong polyethylene plastic
- Each link measures 2" x 1" x 1/4"
- Alternating colors change every two feet
- Available by the foot up to 500-ft.
- Indoor and limited outdoor use



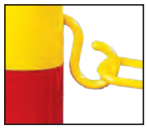
White – WHT
Yellow – YEL
Black – BLK
Red – RED
Alternating White & Red – RW
Alternating Black & Yellow – BY

To Order Chain Links: Add color code after part number.
Example: Part No. PBB0115 + Color Code YEL = PBB0115YEL

Part No.	Description	Color Code	UOM
PBB0115	Standard	WHT, YEL, BLK, RED	Foot
PBB0115	Alternating	RW, BY	
Part No.	**Description**	**Color Code**	**Std. Pkg. Qty.**
PBB0119	Standard	WHT, YEL, BLK, RED	100 ft.



Master Link
- Permanently joins separate lengths of chain



S-Hooks
- Open ends quickly link separate lengths of chain

To Order Chain Accessories: Add color code after part number.
Example: Part No. PBB0109 + Color Code WHT = PBB0109WHT

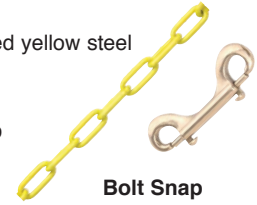
Part No.	Description	Color Code	UOM
PBB0109	Master Link Standard	WHT, YEL, BLK, RED	Each
PBB0138	S-Hook Standard		

Steel Safety Post & Chain

Set out a sturdy post and chain system that stays in place.

Steel Post
- 2" dia. x 34" H powder-coated yellow steel
- 13.5" dia. base covered with durable, black ABS plastic
- Forged universal loop on top
- Indoor and outdoor use

Steel Chain
- Poly-coated yellow steel
- 2/0 straight link coil - 0.18" material dia., 1.29" inside length x 0.34" inside width (Maximum continuous length is 120 ft.)



Bolt Snap
- 4" nickel-plated cast zinc
- Double-ended



Part No.	Description	UOM
PBB0164	Steel Post	Each
PBB0057	Bolt Snap	
PBB0123	Poly-Coated Steel Chain	Foot

Retractable Banner Barrier



PBB0026

Convey safety or warning messages with bold barriers.
- 0.060" aluminum roller housing holds 40"H x 54"W poly-vinyl banner
- Total viewable area: 32"H x 54"W
- Banner housing connects to stanchion posts via (2) paddle sleeves (included that insert into interchangeable accessory caps (2 included)
- Sets up and breaks down easily

UOM
Each



PBB0027



PBB0028

Rack Mount Retractable Belt Tape Barriers

Extend belt tape from the end of a storage rack.
- Mount with choice of hose clamp for semi-permanent installation or magnet for quick install and removal
- Durable 2" wide belt tape end has S-Clip to wrap and secure
- Yellow case with diagonal yellow/black striped tape or 'Caution' message tape



To Order: Add belt style code after part number. Black/Yellow – BY, Caution – C
Example: Part No. PBB0006 + Belt Style Code BY = PBB0006BY

Hose Clamp

Part No.	UOM	Belt Length
PBB0006	Each	15-ft.
PBB0009		20-ft.
PBB0013		25-ft.

Magnetic Mount

Part No.	UOM	Belt Length
PBB0007	Each	15-ft.
PBB0011		20-ft.
PBB0015		25-ft.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Retractable Belt Tape Barriers



Connect belt tape in any combination of posts and wall mounts to control pedestrian traffic indoors.

Belt Tape:

- Woven-polyester tape, wound in a self-tension, spring-loaded unit
- 2"W tape extends up to 8-ft – with straight tension without sag or slack
- Retracts smoothly back into the head unit for storage
- Safety mechanism in the spring-tension reduces the whip action of the belt braking, in case of accidental release

Post Barriers:

- 2 1/2" dia. x 38"H with 14" dia. weighted base
- Available as post barrier with belt tape or as receiver posts (does not contain belt tape)

To Order Post Barriers: Add belt tape color code after Post Barriers part number: Black – BLK, Yellow – YEL, Red – RED.
Example: Part No. PBB0177 + Color Code BLK = PBB0177BLK

Part No.	Post Color	UOM
PBB0177	Brushed Steel	Each
PBB0178	Black	
PBB0179	Yellow	

Receiver Posts Only (Without Belt Tape)

Part No.	Post Color	UOM
PBB0181STL	Brushed Steel	Each
PBB0181BLK	Black	
PBB0181YEL	Yellow	

Wall Mount Retractable Belt Tape Barriers

Close off doorways or hallways.

- 2"W woven-polyester tape, wound in self-tension, spring-loaded unit
- Extends up to 8-ft. without sagging, retracts smoothly
- Head unit with bracket installs with four screws
- Wall mount receiver (sold separately) connects end of belt tape to facing wall



To Order: Add belt tape color code after part number:
Black – BLK, Yellow – YEL, Red – RED.
Example: Part No. PBB0045 + Color Code YEL = PBB0045YEL

Part No.	Case Color	UOM
PBB0045	Brushed Steel	Each
PBB0043	Black	
PBB0049	Yellow	

Wall Mount Receiver

Part No.	UOM
PBB0172	Each



Outdoor Retractable Belt Tape Barriers

Sturdy aluminum stanchion is ideal for use outdoors and in tough indoor environments

- 2 1/2" diameter aluminum post measures 40" high with a sturdy 14" diameter base
- Uses rust-proof stainless steel hardware
- Belt top has 2" wide retractable belt tape with ergonomic, rounded corner belt end and noticeable red slide action lock
- Can accept up to 3 additional belt ends from other belt tape posts
- Available with either 10-ft. or 15-ft. belt tape with contrasting black and yellow hazard stripes.
- Receiver posts available separately



Part No.	Description	UOM
PBB0001	Black Post, Head, & Base	Each
PBB0002	Yellow Post, Black Head & Base	

Aluminum Receiver Posts

Accepts up up to 4 belts. Does not contain belt tape.

Part No.	Description	UOM
PBB0124	Black	Each
PBB0125	Yellow	

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Electronic Safety Scoreboards

Count the number of safe work days in two colors.

- Innovative, durable, frameless construction
- Count days without an accident in green, and if a lost time accident occurs, set the display back to red until you meet your new safe-days goal
- Display can be set to count days or flash between days, date and clock
- Track the 7-day week, or set the display to track only your company's work days
- Display count can be set to freeze or hold
- In a power failure, all information is stored*
- Tamper-proof display easily sets with handheld remote control

*Indicators notify when a hold or power failure has occurred

Specifications:

- For indoor use only
- 28" x 20" x 1" aluminum construction
- Built-in hidden rear mounting brackets
- Four-digit, bright LED display with 2 1/2"H numbers
- Operates on 110 VAC with 6-ft. power cord



UOM
Each



Automatically count safe work days with 2 color LED display – red and green.



PSTB009



PSTB010



PSTB007



PSTB006



PSTB005



PSTB008+

*Scoreboards featuring "BEST PREVIOUS RECORD" include: One (1) electronic display to count safe days and one (1) magnetic display with changeable numbers set to track record number of days.

Turn-A-Day Scoreboards



Safety scoreboard has built-in turn dial to display safe days.

- Number dials are plastic and independently rotate from behind
- Lightweight, durable plastic
- Corner mounting holes

UOM
Each



36" x 24" PSTB001



36" x 24" PSTB003



36" x 24" PSTB004



20" x 14" PSTB002

Write-A-Day Scoreboards

Update safe working days on large scoreboard by writing in the number with dry-erase marker.

- Keep score of consecutive days
- Wipe-off and write-in on poly-coated space provided
- Constructed of durable plastic
- Corner mounting holes

Size	UOM
20" x 14"	Each
36" x 24"	



Marker not included.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Notes

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Notes

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Keystone Cabling System

The Keystone Copper Cabling System provides a complete component and standards-compliant cabling infrastructure solution for voice, data, and video applications.

Keystone modules feature the universal “keystone” design and are compatible with a wide assortment of modular patch panels, faceplates, and surface mount boxes. When combined with complementary Panduit products, NetKey® connectivity provides solutions from the telecommunication room to the work area with proven innovation and quality.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

NetKey® Category 6A, 6 and 5e Jack Modules

- Meet all industry performance standards for Category 6A, 6 and 5e
- Punchdown jack modules are 100% performance tested and individually serialized for future traceability
- Keystone punchdown jacks meet ANSI/TIA 568-C.2 and ISO 11801 component requirements
- Snap in and out of keystone openings for easy moves, adds and changes
- Universal label includes T568A and T568B wiring schemes



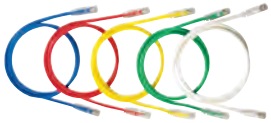
NK6X88MIW
NK688MIW
NKP5E88MIW

Part Number	Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
NetKey® Category 6A UTP Jack Modules*				
NK6X88MIW	Category 6A, component compliant, 8-position, 8-wire keystone punchdown jack module.	Off White	1	50
NK6X88MIW-Q	Convenience pack of 25, Category 6A, component compliant, 8-position, 8-wire keystone punchdown jack modules.	Off White	25	250
NetKey® Category 6 UTP Jack Modules				
NK688MIW	Category 6, component compliant, 8-position, 8-wire, keystone punchdown jack module.	Off White	1	50
NK688MIW-Q	Convenience pack of 25, Category 6, component compliant, 8-position, 8-wire, keystone punchdown jack modules.	Off White	25	250
NetKey® Category 5e UTP Jack Modules*				
NKP5E88MIW	Category 5e, component compliant, 8-position, 8-wire, keystone punchdown jack module.	Off White	1	50
NKP5E88MIW-Q	Convenience pack of 25, Category 5e, component compliant, 8-position, 8-wire, keystone punchdown jack modules.	Off White	25	250

*For standard colors other than IW (Off White), replace IW in part number with EI (Electric Ivory), IG (International Gray), WH (White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet).

NetKey® Copper UTP Patch Cords

- Meet all industry performance standards for Category 6A, 6 and 5e
- 100% performance tested
- Available in a variety of colors and lengths for design flexibility



NK6APC^*
NK6PC^*Y



NK5EPC^*Y

Part Number	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Category 6A UTP Patch Cord			
NK6APC^*	Category 6A, UTP patch cord with modular plugs on each end.	1	10
Category 6 UTP Patch Cord			
NK6PC^*Y	Category 6, UTP patch cord with modular plugs on each end.	1	10
Category 5e UTP Patch Cord			
NK5EPC^*Y	Category 5e, UTP patch cord with modular plugs on each end.	1	10

^Available in 3, 5, 7, 10, 14 and 20-foot lengths.
*For standard colors other than Off White, add suffix BU (Blue), RD (Red), YL (Yellow) or GR (Green) before Y in the part number. For example, the part number of a blue, Category 6, 5-foot patch cord is NK6PC5BUY.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

NetKey® Keystone Patch Panels

- Mount to standard ANSI/TIA 19" racks
- Punchdown patch panels meet all industry performance standards for Category 6A, 6 and 5e
- Modular patch panels accept all NetKey® Modules
- Optional angled versions available for high density installations
- Optional strain relief bars assist in cable management and bend radius control
- Not compatible with Mini-Com® Jacks and Modules



NK6XPPG24Y



NKA6XPPG24Y



NK6PPG12WY
NK5EPPG12WY



NKFP12W



NKFP24Y



NKFP48Y



NKPPA48FMY



WB89D



SRB19BLY



SRBM19BLY

Part Number	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Punchdown Patch Panels* – Category 6A			
NKA6XPPG24Y	Category 6A angled punchdown patch panel, 24 port, 1 RU.	1	10
NKA6XPPG48Y	Category 6A angled punchdown patch panel, 48 port, 2 RU.		
NK6XPPG24Y	Category 6A punchdown patch panel, 24 port, 1 RU.		
NK6XPPG48Y	Category 6A punchdown patch panel, 48 port, 2 RU.		
Punchdown Patch Panels – Category 6			
NK6PPG12WY	Category 6, 12-port punchdown patch panel. Mounts to wall with standard 89D bracket (WB89D).	1	10
NKA6PPG24Y	Category 6, 24-port, angled punchdown patch panel, 1 RU.		
NKA6PPG48Y	Category 6, 48-port, angled punchdown patch panel, 2 RU.		
NK6PPG24Y	Category 6, 24-port, punchdown patch panel, 1 RU.		
NK6PPG48Y	Category 6, 48-port, punchdown patch panel, 2 RU.		
Punchdown Patch Panels – Category 5e			
NK5EPPG12WY	Category 5e, 12-port punchdown patch panel. Mounts to wall with standard 89D bracket (WB89D).	1	10
NKA5EPPG24Y	Category 5e, 24-port, angled punchdown patch panel, 1 RU.		
NKA5EPPG48Y	Category 5e, 48-port, angled punchdown patch panel, 2 RU.		
NK5EPPG24Y	Category 5e, 24-port, punchdown patch panel, 1 RU.		
NK5EPPG48Y	Category 5e, 48-port, punchdown patch panel, 2 RU.		
Modular Patch Panels			
NKFP12W	12-port modular patch panel with front removable faceplate. Mounts to wall with standard 89D bracket (WB89D).	1	10
NKFP24Y	24-port modular patch panel with front removable faceplate, 1 RU.		
NKFP48Y	48-port modular patch panel with front removable faceplate, 2 RU.		
NKPPA24FMY	24-port flush mount angled modular patch panel, 1 RU.		
NKPPA48FMY	48-port flush mount angled modular patch panel, 2 RU.		
NKPP24FMY	24-port flush mount modular patch panel, 1 RU.		
NKPP48FMY	48-port flush mount modular patch panel, 2 RU.		
Wall Mount Bracket			
WB89D	Wall mount bracket. Ideal for use with 12-port punchdown or modular patch panels.	1	10
Strain Relief Bars			
SRB19BLY	Strain relief bar extends 2" from standard 19" rack for additional cable support.	1	10
SRBM19BLY	Strain relief bar and Tak-Ty® Hook & Loop Cable Ties for additional cable support.		
SRBS19BL-XY	Straight strain relief bar.	10	—

*Punchdown patch panels are color-coded for T568A and T568B wiring schemes.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

NetKey® Keystone Faceplates

- Accept all NetKey® Modules
- Available in a variety of port densities
- Optional labels for easy port identification
- Not compatible with Mini-Com® Jacks and Modules



NK2FNIW NK2FIWY



NK2HSFIWY NK4VSFIWY



NKF2S

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
Flush Mount Screw-On Faceplates				
NK*FNIW	Single gang, flush mount vertical faceplate.	—	1	10
NK**FIWY	Single or double gang, flush mount vertical faceplate with labels.	—		
NK^HSFIWY	Single gang, sloped, horizontal faceplate with labels.	—		
NK4VSF	Single gang, 4-port, sloped, vertical faceplate with labels.	Off White		
Stainless Steel Faceplates				
NKF^^S	Single gang, stainless steel, vertical faceplate with labels.	—	1	10

*Available in 1, 2, 3 and 4-port density configurations.
**Available in single gang 1, 2, 4, and 6-port density configurations and 8 or 12-port double gang port density configurations.
^Available in 2 or 4-port density configurations.
^^Available in 2, 4 or 6-port density configurations. When mounting, opening should be a minimum of 2" wide.
‡For standard colors other than IW (Off White), replace suffix with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black). NK2HSF**Y and NK4HSF**Y not available in BL (Black).

NetKey® Snap-On Sloped Keystone Faceplates

- Accept all Panduit® NetKey® Keystone Copper Modules and Duplex Fiber Optic Modules
- Snap into raceway channel, requires no additional mounting hardware or adapters – greatly reducing installation time
- Lowest cost for moves, adds, and changes
- Tamper resistant
- Can be used with Pan-Way® Cove, TG-70, T70, Twin-70, T-45 Raceway Systems, Fast-Snap™ Outlet Boxes, and Pan-Pole™ Aluminum Outlet Poles



NK2HSRF NK4HSRF



NK4VSRF

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
NK2HSRFIW	Snap-On 2-position sloped horizontal faceplate accepts any Panduit® NetKey® Module. Compatible with Panduit® NetKey® Outlet Boxes, Surface Raceway Systems, and Pan-Pole™ Outlet Poles.	Off White	1	10
NK4HSRFIW	Snap-On 4-position sloped horizontal faceplate accepts any Panduit® NetKey® Module. Compatible with Panduit® NetKey® Outlet Boxes, Surface Raceway Systems, and Pan-Pole™ Outlet Poles.			
NK4VSRFIW	Snap-On 4-position sloped vertical faceplate accepts any Panduit® NetKey® Module. Compatible with Panduit® NetKey® Outlet Boxes, Surface Raceway Systems, and Pan-Pole™ Outlet Poles.			

Panduit® NetKey® faceplates are NOT compatible with Panduit® Mini-Com® Modules.
‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).
For complete labeling solutions refer to www.panduit.com.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

NetKey® Snap-On Flush Universal Keystone Faceplates

- Wider module spacing to accept common manufacturers' keystone modules 0.900 inches wide or less
- Can be used with Pan-Way® Cove, TG-70, T70, Twin-70, T-45 Raceway Systems, Fast-Snap™ Outlet Boxes, and Pan-Pole™ Aluminum Outlet Poles



T70KW2 T70KW4

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T70KW2IW	Snap-On 2-position flush mount faceplate accepts any Panduit® NetKey® Module and most other manufacturers' keystone modules. Compatible with Panduit® Fast-Snap™ Outlet Boxes, Surface Raceway Systems, and Pan-Pole™ Outlet Poles.	Off White	1	10
T70KW4IW	Snap-On 4-position flush mount faceplate accepts any Panduit® NetKey® Module and most other manufacturers' keystone modules. Compatible with Panduit® Fast-Snap™ Outlet Boxes, Surface Raceway Systems, and Pan-Pole™ Outlet Poles.			

Panduit® NetKey® faceplates are NOT compatible with Panduit® Mini-Com® Modules.
‡For other colors replace IW (Off White) in part number with EI (Electric Ivory), IG (International Gray), or WH (White).
For complete labeling solutions refer to www.panduit.com.

NetKey® Keystone Module Frames and Furniture Faceplate



NK2106MFIW



NK4106MFIW



NK2RMFIW



NK4RMFIW



NK4MFIW



NK4MFABL

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
NK2106MFIW	Screw mount "106" duplex module frame. Accepts two NetKey® Modules.	Off White	1	10
NK4106MFIW	Screw mount "106" duplex module frame. Accepts four NetKey® Modules.			
NK2RMFIW	Screw mount module frame. Accepts two NetKey® Modules. Compatible with standard NEMA outlet boxes and rectangular faceplates.			
NK4RMFIW	Screw mount module frame. Accepts four NetKey® Modules. Compatible with standard NEMA outlet boxes and rectangular faceplates.			
NK4MFIW	Snap on modular furniture faceplate. Accepts four NetKey® Modules.			
NK4MFABL	Sloped modular furniture faceplate for industry standard opening, accepts four keystone modules	Black	1	10

‡For standard colors other than Off White, replace IW in part number with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

Keystone Phone Plates



KWPY



KWP3Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
KWPY	Stainless steel wall phone plate accepts one module.	1	10
KWP3Y	Stainless steel wall phone plate supplied with one Category 3 keystone leadframe module.		

Wall mount faceplate kits compatible with wall mountable phones with short patch cord connections to the jack module.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

NetKey® Keystone Surface Mount Boxes

- Accept all NetKey® Modules
- Include mounting screws and adhesive tape
- Compatible with Panduit® LD3, LD5, and LD10 Raceway
- Not compatible with Mini-Com® Jacks and Modules



NK2BXIW-A



NK4BXIW-AY



NK6BXIW-AY



CBM-X

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
NK2BXIW-A	Surface mount box accepts two NetKey® Modules.	Off White	1	10
NK4BXIW-AY	Surface mount box accepts four NetKey® Modules.			
NK6BXIW-AY	Surface mount box accepts six NetKey® Modules.			
CBM-X	Optional magnet for mounting on metal surfaces. Compatible with NK2BXIW-A and NK4BXIW-AY.	—	10	100

‡For surface mount box standard colors other than IW (Off White), replace suffix with EI (Electric Ivory), IG (International Gray) or WH (White).

NetKey® Audio/Video Modules



NKFIW



NKBNCMIWY



NKHDMIIW



NKUSBAAIW



NKBMIW-X

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
F-Type Module				
NKFIW	Keystone module supplied with F-type 3 GHz coupler	Off White	1	10
50 Ohm BNC Coax Module				
NKBNCMIWY	Keystone module supplied with 50 ohm industry standard coax bulkhead coupler.	Off White	1	10
HDMI Coupler				
NKHDMIIW	Keystone module supplied with HDMI 2.0 Type A female to female coupler module.	Off White	1	10
USB Coupler				
NKUSBAAIW	Keystone module supplied with one USB 2.0 female A to female A coupler module.	Off White	1	10
Blank Module				
NKBMIW-X	Blank keystone module reserves space for future use.	Off White	1	10

‡For standard colors other than IW (Off White), replace IW in part number with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black). 5-Way Binding Post Module (NKBP^IWY) only available in EI (Electric Ivory) and WH (White).

Termination Tool



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Punchdown Base			
NKSPB	Base used to assist in terminating keystone punchdown modules.	1	50
Pan-Punch® Termination Tool			
PDT110	Single pair punchdown tool and blade terminates and cuts UTP cable in one operation. Ideal for use with the Pan-Punch Punchdown System	1	50
PDTH110	Replacement blade for single pair punchdown tool (PDT110).		

Order number of pieces required, in multiples of Standard Package Quantity.

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Industrial Networks

Panduit® Industrial Network solutions provide a reliable end-to-end network physical layer infrastructure from the enterprise to the edge. A comprehensive range of products ensures fast, repeatable, and high-quality installations to simplify robust industrial network deployment.

- **Industrially rated copper and fiber cabling and connectivity is available in many performance levels and configurations, offering flexibility and fast installations for structured and point-to-point applications**
- **IndustrialNet™ M12 Overmolded Cordsets deliver fast, reliable connections from machines and devices to Ethernet switches and enclosures on the plant floor**
- **The Pre-Configured Micro Data Center (MDC) provides a secure and protected environment for active equipment and physical media when connecting enterprise and plant floor networks**
- **Network Zone Systems and Pre-Configured Industrial Distribution Frames (IDF) deploy Ethernet networks from machine-to-machine with fast implementation**
- **The no-battery, maintenance-free Industrial Network Uninterruptible Power Supply (UPS) supports industrial switches during power outages with up to 40% decreased downtime risk compared to battery-based devices**

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IndustrialNet™ Copper Cable for Category 5e, Category 6, and Category 6A Ethernet

- Cable has been tested by an independent laboratory and complies with the electrical standard requirements of ISO11801 and ANSI/TIA-568.2-D
- UL Approved
- Industrial rated cable for reliable performance in harsh environments
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Packaged on a reel



ISFCH6X04ATL-UG*



IUC6C04ABL-CEG



ISX6004AYL-LED



ISFCH5C04ATL-XG



ISFCH5C02ATL-XG



ISFX5502ATL-LED

Part Number	Part Description	Min. Order Qty. (MOQ)*	Min. Order Increment (MOI)*	UOM
ISFCH6X04ATL-UG	Category 6A, 4-pair, 24 AWG stranded, SF/UTP, industrial 600 V, (CMX), Teal.	**10000**	1000	Ft.
ISFCH6X04BTL-UG	Category 6A, 4-pair, 26 AWG stranded, SF/UTP, industrial 600 V, (CMX), Teal.			
IUC6C04ABL-CEG	Category 6, 4-pair, 24 AWG stranded, U/UTP, flame-retardant (CM) Black.	6	1	Reel
ISX6004AYL-LED	Category 6, 4-Pair, 24 AWG stranded, S/FTP, industrial high flex, flame retardant, Yellow.	12	12	Reel
ISFCH5C04ATL-XG	Category 5e, 4-pair, 24 AWG stranded, SF/UTP, 600 V high flex, flame-retardant (CM/CMX), Teal.	9000	1000	Ft.
ISFCH5C02ATL-XG	Category 5e, 2-pair, 24 AWG stranded, SF/UTP, 600 V high flex, flame-retardant (CM/CMX), Teal.			
ISFX5502ATL-LED	Category 5e, 2-pair, 24 AWG stranded, SF/UTP, industrial high flex, flame-retardant (CM/CMX), Teal.	6	1	Reel
IFRH6C04BL-UG	Category 6, 4-pair, 23 AWG solid, F/UTP, industrial 600 V, (CMR), Black.	5000	1000	Ft.
IFRH5C04BL-UG	Category 5e, 4-pair, 24 AWG solid, F/UTP, industrial 600 V, (CMR), Black.	9000	1000	Ft.

*MOQ needs to be met prior to MOI. Contact Customer Service for additional information.
For additional colors, refer to www.panduit.com.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

IndustrialNet™ RJ45 Copper Patch Cords for Category 5e and Category 6 Ethernet

- Patch cords have been tested by an independent laboratory and comply with the electrical standard requirements of IEC 60603-7 and ANSI/TIA-568.2-D
- Variant 1 bulkhead patch cords meet IP67 when mated to IP67 IndustrialNet™ Connectors
- UL Approved
- Industrial rated patch cord for reliable performance in harsh environments
- 600 V rated patch cords provide reliable performance for panel or on-machine applications when space is shared with 600 V high voltage power cables



ISTPHCH1MTL



ISTPCH1MBLY, ISPTH6X1MTL, ISTPSP1MBL, IUTPCH3BLY, IUTPSP3BL

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ISTPHCH1MTL	Category 5e, 600 V 24 AWG stranded SF/UTP patch cord, RJ45 plug to RJ45 plug, 1m, Teal.	**1**	10
ISTPCH1MBLY	Category 5e, 26 AWG stranded F/UTP patch cord, RJ45 plug to RJ45 plug, 1m, Black. Includes dust caps.		
ISPTH6X1MTL	Category 6A, 600 V 26 AWG stranded SF/UTP patch cord, RJ45 plug to RJ45 plug, 1m, Teal.		
ISTPSP1MBL	Category 6, 26 AWG stranded S/UTP patch cord, RJ45 plug with bulkhead to RJ45 plug with bulkhead, 1m, Black. Includes dust caps.		
IUTPCH3BLY	Category 5e, 24 stranded U/UTP patch cord, RJ45 plug to RJ45 plug, 3 ft., Black. Includes dust caps.		
IUTPSP3BL	Category 6, 24 AWG stranded U/UTP patch cord, RJ45 plug with bulkhead to RJ45 plug with bulkhead, 3 ft., Black. Includes dust caps.		

For additional colors and lengths, refer to www.panduit.com.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

IndustrialNet™ Copper Connectors

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- Extended temperature range provides durable connections in extreme conditions
- Optional RJ45 connector speeds deployment



ISPS5E44MFA,
ISPS6A88MFA



ICAM12X90RJS



ICAM12DRJS



IAEBHV56XS MPSIV56XT



IAEBH5*, IAEBH6*,
IAEBHC5*, IAEBHC6*



MPI588T, MPSI588T



ISPS688FA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Industrial M12 Connectors			
ISPS5E44MFA	Category 5e, M12 D-Code shielded field terminable connector, male.	1	25
ISPS6A88MFA	Category 6A, M12 X-Code shielded field terminable connector, male.		10
ICAM12X90RJS	Category 6A, M12 X-Code shielded to RJ45 industrial adapter, 90° angle, panel mount.		15
ICAM12XRJS	Category 6A, M12 X-Code shielded to RJ45 industrial adapter, panel mount.		15
ICAM12DRJS	Category 5e, M12 D-Code to RJ45 industrial adapter, panel mount.		10
Industrial Bulkhead Connector with Protective Cover			
IAEBHV56XS	Category 6A, Variant 5 IP67 rated RJ45 connector, shielded.	1	10
MPSIV56XT	Category 6A, Variant 5 IP67, RJ45 modular plug, shielded.		
IAEBH6X	Category 6A, Variant 1 IP67 rated RJ45 connector.		
IAEBH6XS	Category 6A, Variant 1 IP67 rated RJ45 connector, shielded.		
IAEBH6	Category 6, Variant 1 IP67 rated RJ45 connector.		
IAEBH6S	Category 6, Variant 1 IP67 rated RJ45 connector, shielded.		
IAEBH5E	Category 5e, Variant 1 IP67 rated RJ45 connector.		
IAEBH5ES	Category 5e, Variant 1 IP67 rated RJ45 connector, shielded.		
MPI588T	Category 5e, Variant 1 IP67 rated modular plug.		
MPSI588T	Category 5e, Variant 1 IP67 rated modular plug, shielded.		
Industrial Bulkhead Coupler with Protective Cover			
IAEBHC6	Category 6, Variant 1 IP67 rated RJ45 coupler.	1	10
IAEBHC5E	Category 5e, Variant 1 IP67 rated RJ45 coupler.		
Industrial Mini-Com® Coupler Module			
IAEBHUSBAA	USB 2.0 Variant 1 IP67 rated female A to female A coupler.	1	10
Industrial RJ45 Plugs			
ISPS688FA	Category 6A, RJ45 plug for 24-22 AWG solid, 1.0-1.6mm conductor diameter, shielded.	1	10
ISPS688FAS	Category 6A, RJ45 plug for 24-22 AWG stranded, 0.85-1.00mm conductor diameter, shielded.		

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

IndustrialNet™ Overmolded Cordsets

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- TPE/TPU jackets protect cable, providing increased reliability in high-flex applications
- Extended temperature range provides durable connections in extreme conditions
- Rated to 10 million flex cycles
- Optional RJ45 connector speeds deployment



M12, Male D-Code, Straight Connector



M12, Male D-Code, Angled Connector



RJ45 Modular Plug



M12, Bulkhead, Female D-Code Connector



M12, Female D-Code, Straight Connector



M12, Male X-Code, Straight Connector



M12, Bulkhead, Female X-Code Connector

Part Number	Termination End 1	Termination End 2	Std. Pkg. Qty.	Std. Ctn. Qty.
Category 5e, STP Cable				
ICD11T1NTL*M	M12, Male D-Code, Straight Connector	M12, Male D-Code, Straight Connector	1	10
ICD22T1NTL*M	M12, Male D-Code, Angled Connector	M12, Male D-Code, Angled Connector		
ICD14T1NTL*M	M12, Male D-Code, Straight Connector	RJ45 Modular Plug		
ICD44T1NTL*M	M12, Bulkhead, Female D-Code Connector	RJ45 Modular Plug		
ICD45T1NTL0.5M	M12, Bulkhead, Female D-Code Connector	Unterminated		
Category 5e, UTP Cable				
ICD11T2NTL*M	M12, Male D-Code, Straight Connector	M12, Male D-Code, Straight Connector	1	10
ICD35T2NTL*M	M12, Female D-Code, Straight Connector	Unterminated		
ICD25T2NTL*M	M12, Male D-Code, Angled Connector	Unterminated		
ICD15T2NTL*M	M12, Male D-Code, Straight Connector	Unterminated		
Category 6A, STP Cable				
ICX11T1NTL*M	M12, Male X-Code, Straight Connector	M12, Male X-Code, Straight Connector	1	10
ICX44T1NTL*M	M12, Bulkhead, Female X-Code Connector	RJ45 Modular Plug		
ICX45T1NTL0.5M	M12, Bulkhead, Female X-Code Connector	Unterminated		
ICX15T1NTL*M	M12, Male X-Code, Straight Connector	Unterminated		

*A variety of standard lengths and configurations are available. Contact customer service. Representative list only.
Please visit www.panduit.com for full offering.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

IndustrialNet™ Motor Control Connectivity (MCC)

- Used to upgrade legacy MCCs to intelligent MCCs or to quickly connect Micro Data Centers with Industrial Distribution Frames and Network Zone Systems for holistic network connectivity
- Factory terminated design assures reliability and saves time
- 100% factory tested ensures performance
- Snaps in and out of DIN rail patch panels and other Mini-Com® Products
- Each bundle is wrapped with a Kevlar** band
- Cables are bundled to prevent alien cross-talk within the bundle
- Each bundle includes cable assembly identification for future traceability



I4JPBJLUXX

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
I4JPBJLUXX*	Category 6A plenum; jack no stagger to jack no stagger, Black.	1	—
I4KOTJLUXX*	Category 6A outdoor; jack no stagger to jack no stagger, Teal.		

*A variety of connections and lengths in loomed and non-loomed versions available. Contact customer service.
**Kevlar is a registered trademark of E.I. du Pont de Nemours and Company or its affiliates.

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Fiber Adapter and Patch Cords

- NEC 770 Compliant
- UL Approved
- LSZH cable jacket rating
- Industrial rated cable for reliable performance in harsh environments



IAEF617P-7PM1



IAEF617P-NM1



IAEF7JMA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
IAEF617P-7PM1	Industrial LC to LC multimode duplex patch cord - 62.5/125µm.	1	10
IAEF617P-NM1	Industrial LC to pigtail multimode duplex pigtail – 62.5/125µm.		
IAEF7JMA	Industrial LC fiber optic bulkhead adapter.		

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Industrial Accessories

- Modular design for easy DIN rail mounting
- Include labels for easy moves, adds and changes
- Compact size and low profile saves valuable DIN rail space
- Easy installation - no special tools required



CADIN1IG



CMDJAQLCZBL



CJ688TGBL



CDPP8RG



FDME8RG



IAEFP1



IAEFP2-2G

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Mini-Com® DIN Rail Mount Adapter			
CADIN1IG	Single-port DIN rail mount adapter, International Gray.	1	10
CADIN1BL	Single-port DIN rail mount adapter, Black.		
CADIN1IW	Single-port DIN rail mount adapter, International White.		
CMDJAQLCZBL	Adapter module supplied with one LC Sr./Jr. OM3/ OM4 duplex multimode fiber optic adapter (AQ) with zirconial ceramic split sleeves.		
CJ688TGBL	Category 6, RJ45, UTP Mini-Com® Universal Jack Module, TG-style termination, Black.		50
IndustrialNet™ DIN Rail Mount Copper Patch Panel			
CDPP8RG	8-port patch panel, DIN rail mount.	1	10
IndustrialNet™ DIN Rail Mount Fiber Enclosure			
FDME8RG	8-port fiber optic enclosure, DIN rail mount.	1	10
IndustrialNet™ Stainless Steel Faceplate			
IAEFP1	Vertical faceplate accepts one IndustrialNet™ Bulkhead Connector or Adapter.	1	10
IAEFP2-2G	Double gang, vertical faceplate accepts two IndustrialNet™ Bulkhead Connectors or Adapters.		

Order number of pieces required, in multiples of Standard Package Quantity.

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Pre-Configured Micro Data Center (MDC)

- Pre-configured solution enables fast deployment of servers, storage, and switches for an industrial network
- Dynamic rated version ensures safe transport of IT equipment under typical shipping conditions
- Includes space for future expansion of server, storage, and related patching to allow for increased network capacity without requiring addition to control room footprint
- Bonded structure helps ensure network reliability and prevent equipment failure
- Integrated cable management with bend radius control maintains bandwidth through the network for increased uptime
- Reference architecture provides a physical map of the logical network layer following recommended installation practices to increase reliability



MDC79D and MDC79

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MDC79D	Dynamic, single hinge perforated front door, split perforated rear doors, split side panels (2), 42 RU, network cabling, patch panels, cable management, grounding, casters, shock pallet, and ramp. Color Black. Dimensions: 79.8" H x 27.6" W x 48.0" D (2026mm x 700mm x 1200mm)	1	—
MDC79	Single hinge perforated front door, split perforated rear doors, split side panels (2), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Black. Dimensions: 79.8" H x 27.6" W x 48.0" D (2026mm x 700mm x 1200mm)		

Industrial Network Uninterruptible Power Supply (UPS)

- Supports industrial switches during power outages
- Ultracapacitor technology decreases downtime risk by up to 40%*
- Maintenance-free operation contributes to 50-70% reduced cost of ownership*
- Non-HazMat
- Remote management with auto alerts works with standard web browsers and EtherNet/IP**
- Easy device monitoring through SNMP v1/V2c/V3
- Wide operating temperature range -40°C to +60°C
- Compact, one-piece design saves 50% or more DIN Rail space compared to similar UPS devices



UPS00100DC



UPS003LSM

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
UPS00100DC	Uninterruptible power supply (UPS), 100 W; no-battery, maintenance-free with remote management; 24-28 VDC in/out; DIN rail mount.	1	—
UPS003LSM	UPS load sense module; optional accessory for use in dual, redundant power supply configurations to monitor load on primary supply.		

*Compared to battery-based UPS devices. **EtherNet/IP is a trademark of ODVA.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

IndustrialNet™ Data Access Port

- NEMA/UL Type 4X and Type 12, IP65 Rated
- Modular design for increased flexibility; accepts select Mini-Com® Modules including copper, fiber, USB ports, serial ports, and HMI memory components
- Integrated GFCI receptable outlet provides power to external monitoring devices, preventing downtime associated with overloading critical system components
- Locking hasp accepts Panduit lockout/tagout products or padlock to prevent unauthorized access for improved security
- Removable mounting plate accepts a variety of power supplies, providing flexibility to meet regional electrical requirements
- Meets TIA/EIA-606-A labeling standards allowing identification of data and power, reducing downtime during maintenance and trouble shooting
- Covered screw holes prevent unintentional disruption of service by unathorized personnel and protection against arc flash, improving security, safety, and network uptime
- Pre-configured mounting template quickly and easily identifies mounting hole locations and cutouts



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
IAPNG5EWH	GFCI data access port, Category 5e coupler and blank, White.	1	—

Order number of pieces required, in multiples of Standard Package Quantity.

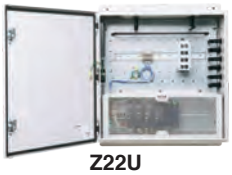
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Network Zone Systems

- Universal design works with most DIN mount industrial Ethernet switches, providing design flexibility
- Pre-configured solution delivers up to 75% faster implementation
- Designed to accept customer supplied switches
- Copper/fiber patch fields and connectivity enable troubleshooting of network connections
- Isolation barrier segregates higher line voltage from lower voltage switch for increased safety
- Bonding provisions and grounding bar ensure path to ground to protect personnel and equipment
- Gland plate allows quick and easy access to machine ingress points into enclosure
- Detailed installation guide provides easy, repeatable design instructions, assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, CE Approved, IP66 Rated



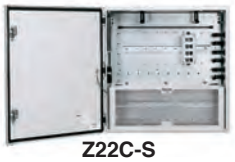
Z23U



Z22U



Z23C-S



Z22C-S



ZFLEX1



ZFLEX 2

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Universal Network Zone System - Includes Power Infrastructure			
Z23U-S25	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, maintenance-free UPS.	1	—
Z23U-S25S	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, maintenance-free UPS.		
Z23U-S24	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.		
Z23U-S24S	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.		
Z23U-S26	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, battery UPS, PoE.		
Z23U-S26S	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, battery UPS, PoE.		
Z22U-S15	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, maintenance-free UPS.		
Z22U-S15S	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, maintenance-free UPS.		
Z22U-S14	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.		
Z22U-S14S	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.		
Z22U-S16	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, battery UPS, PoE.		
Z22U-S16S	24" x 24" mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies, battery UPS, PoE.		
Pre-Configured Network Zone Systems			
Z23C-S	24" x 36" mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber patch cords with (6) adapters, backplane, and cable management.	1	—
Z22C-S	24" x 24" mild steel enclosure, for two industrial switches, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber patch cords with 6 LC adapters, backplane, and cable management.		
HD Flex Cassettes			
ZFLEX1	Mounting bracket for one 6-port fiber cassette in network zone systems Z22X-X and Z23X-X.	1	—
ZFLEX2	Mounting bracket for two 6-port fiber cassettes in network zone systems Z22X-X and Z23X-X.		

Also available in 316 stainless steel. Refer to www.panduit.com.

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Pre-Configured Industrial Distribution Frame (IDF)

- Engineered to deploy and protect rack mount Ethernet switches in industrial applications
- Pre-configured, wall mount design delivers up to 25% faster implementation
- Defined equipment locations and cable routings incorporate Panduit best practices in connectivity, cable management, wiring, and grounding
- Additional back-end space allows for 3X the cooling capacity over typical deployments
- Key-locking handle limits access to authorized personnel for a secure network
- Detailed installation guide provides easy instructions, assuring consistency and saving time on the job-site
- UL Type 4/12 or 4/4X/12 and IP66 Rated



ZDF48-RA



ZDF242430

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ZDF48-RA	Mild steel enclosure; 26U; for two access and two distribution switches; pre-installed with front and rear rack angles, fiber enclosure, 48-port patch panel, cable management, grounding, 10" DIN rail, (2) fiber spools, (2) back panels, (2) ESD ports, 30" length of duct, (2) duplex power receptacles, cage nuts, labeling for cable routing, strain relief bars, (4) power cables; includes ESD wrist strap, (1) hook and loop, (1) grounding cable, mounting hardware, conduit schedule, and ingress template.	1	—
ZDF48-EA	Mild steel enclosure; 26U; for two access and two distribution switches; pre-installed with front and rear rack angles, fiber enclosure, 48-port patch panel, cable management, grounding, 10" DIN rail, (2) fiber spools, (2) back panels, (2) ESD ports, 30" length of duct, cage nuts, labeling for cable routing, strain relief bars, includes ESD wrist strap, (1) hook and loop, (1) grounding cable, mounting hardware, conduit schedule, and ingress template, for EMEA/APJ.		
ZDF242430	Mild steel enclosure, 12U, for two access or two distribution switches; pre-installed with front and rear rack angles, fiber enclosure, 48-port patch panel, grounding, 10" DIN rail, (2) fiber spools, (1) back panel, (2) ESD ports, 30" length of duct, cage nuts, labeling for cable routing, strain relief bars; includes ESD wrist strap, (1) hook and loop, (1) grounding cable, mounting hardware, conduit schedule, and ingress template.		

Also available in 316 stainless steel. Refer to www.panduit.com.

Wireless Enclosures

- Accommodates the most popular Wireless Access Points
- Fiberglass construction and aluminum mounting plate allow quick and easy access point installation
- Provisions for padlocks to protect against tampering and theft
- Includes pre-configured mounting template and connectivity kit with 2-position outlet box, Mini-Com® TX6™ PLUS Jack Module, TX6™ PLUS patch cord, silicone sealant, and grounding cable
- UL 508A Listed, NEMA 4X and IP66 Rated



PZNWE12



PZNWE14

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PZNWE12	Wireless enclosure designed for Power over Ethernet applications. Includes UTP connectivity kit and pre-configured mounting template. External dimensions: 13.56" H x 13.47" W x 6.56" D (344.4mm x 342.1mm x 166.6mm). Internal dimensions: 11.70" H x 11.70" W x 6.29" D (297.2mm x 297.2mm x 159.8mm).	1	—
PZNWE14	Wireless enclosure designed for traditional AC power applications. Includes UTP connectivity kit and pre-configured mounting template. External dimensions: 15.50" H x 13.50" W x 6.25" D (393.7mm x 342.9mm x 158.8mm). Internal dimensions: 13.53" H x 11.55" W x 5.94" D (343.7mm x 293.4mm x 150.9mm).		

Shielded connectivity kit, NEMA 4X rated fittings, and NEMA 4X drain and vent kit available. Refer to www.panduit.com.

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
1001	E5.36, E5.46
1002	E5.36
1003	E5.36, E5.46
1004	E5.36
1005	E5.36, E5.46
1006	E5.36
1007	E5.36, E5.46
1007B4845	E5.71
1008	E5.36
1009	E5.36, E5.46
1010	E5.36
1011	E5.36, E5.46
1012	E5.36
1013	E5.38, E5.46
1014	E5.36
1015	E5.36, E5.46
1016	E5.36
1017	E5.36, E5.46
1018	E5.36
1019	E5.36, E5.46
1020	E5.36
1021	E5.36, E5.46
1022	E5.36
1023	E5.36, E5.46
1024	E5.36
1025	E5.36, E5.46
1026	E5.36
1027	E5.36, E5.46
1028	E5.43
1029	E5.43, E5.46
1030	E5.43
1031	E5.43, E5.46
1032	E5.43
1033	E5.43, E5.46
1034	E5.36
1035	E5.36, E5.46
1036	E5.36
1037	E5.36, E5.46
1038	E5.36
1039	E5.36, E5.46
1040	E5.36
1041	E5.36, E5.46
1042	E5.36
1043	E5.36, E5.46
1044	E5.38
1045	E5.38, E5.46
1046	E5.38
1047	E5.37, E5.46
1048	E5.37
1049	E5.38, E5.46
1050	E5.38
1051	E5.39, E5.46
1052	E5.39
1053	E5.39, E5.46
1054	E5.39
1055	E5.39
1056	E5.39
1057	E5.39, E5.46
1058	E5.39
1059	E5.39, E5.46
1060	E5.39
1061	E5.36, E5.46
1063	E5.37, E5.46
1064	E5.36
1065	E5.38, E5.46
1066	E5.38
1067	E5.38, E5.46
1068	E5.38
1069	E5.46
1071	E5.46
1073	E5.46
1075	E5.46
1077	E5.46
1079	E5.46
1081	E5.46
1083	E5.46
1085	E5.46
1087	E5.46
1089	E5.46
1091	E5.46
1093	E5.46
1095	E5.46
1097	E5.46
1099	E5.46
1101	E5.46
1103	E5.46
1105	E5.46
1107	E5.46
1109	E5.46
1111	E5.46
1113	E5.46
1115	E5.46
1117	E5.37, E5.46
1118	E5.72
1119	E5.46, E5.72
1120	E5.72
1121	E5.46, E5.75
1122	E5.75
1123	E5.46, E5.75
1124	E5.72
1125	E5.37, E5.46
1126	E5.37
1127	E5.37, E5.46
1128	E5.37
1129	E5.46
1130	E5.37
1131	E5.37, E5.46
1132	E5.37
1133	E5.37, E5.46
1134	E5.37
1135	E5.38, E5.46
1136	E5.37
1137	E5.37, E5.46
1138	E5.37
1139	E5.38, E5.46
1140	E5.38
1141	E5.38, E5.46
1142	E5.38
1143	E5.38, E5.46
1144	E5.38
1145	E5.38, E5.46
1146	E5.38
1147	E5.38, E5.46
1148	E5.37
1149	E5.46
1150	E5.39
1151	E5.37, E5.46
1152	E5.37
1153	E5.37, E5.46
1154	E5.38
1155	E5.38
1156	E5.38
1157	E5.46
1159	E5.46
1161	E5.46
1163	E5.46
1165	E5.46
1167	E5.46
1169	E5.46
1171	E5.46
1173	E5.46
1175	E5.46
1177	E5.46
1179	E5.46
1181	E5.46
1183	E5.46
1185	E5.46
1187	E5.46
1189	E5.46
1191	E5.46
1193	E5.46
1195	E5.46
1197	E5.46
1199	E5.46
1201	E5.46
1203	E5.46
1205	E5.47
1207	E5.47
1209	E5.47
1211	E5.47
1213	E5.47
1215	E5.47
1217	E5.47
1219	E5.47
1221	E5.47
1223	E5.47
1225	E5.47
1227	E5.47
1229	E5.47
1231	E5.47
1233	E5.47
1235	E5.47
1237	E5.47
1239	E5.47
1241	E5.47
1243	E5.47
1245	E5.47
1247	E5.47
1249	E5.47
1251	E5.47
1253	E5.47
1257	E5.47
1259	E5.47
1261	E5.47
1263	E5.47
1265	E5.47

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
1267	E5.47	1393	E5.47	1519	E5.48
1269	E5.47	1395	E5.47	1521	E5.48
1271	E5.47	1397	E5.47	1523	E5.48
1273	E5.47	1399	E5.47	1525	E5.48
1275	E5.47	1401	E5.47	1527	E5.48
1277	E5.47	1403	E5.47	1529	E5.48
1279	E5.47	1405	E5.47	1531	E5.48
1281	E5.47	1407	E5.47	1533	E5.48
1283	E5.47	1409	E5.47	1535	E5.48
1285	E5.47	1411	E5.47	1537	E5.48
1287	E5.47	1413	E5.47	1539	E5.48
1289	E5.47	1415	E5.47	1541	E5.48
1291	E5.47	1417	E5.47	1543	E5.48
1293	E5.47	1419	E5.47	1545	E5.48
1295	E5.47	1421	E5.47	1547	E5.48
1297	E5.47	1423	E5.47	1549	E5.48
1299	E5.47	1425	E5.47	1551	E5.48
1301	E5.47	1427	E5.47	1553	E5.48
1303	E5.47	1429	E5.47	1557	E5.48
1305	E5.47	1431	E5.47	1559	E5.48
1307	E5.47	1433	E5.47	1561	E5.48
1309	E5.47	1435	E5.47	1563	E5.48
1311	E5.47	1437	E5.47	1565	E5.48
1313	E5.47	1439	E5.47	1567	E5.48
1315	E5.47	1441	E5.47	1569	E5.48
1317	E5.47	1443	E5.47	1571	E5.48
1319	E5.47	1445	E5.47	1573	E5.48
1321	E5.47	1447	E5.47	1575	E5.48
1323	E5.47	1449	E5.47	1577	E5.48
1325	E5.47	1451	E5.47	1579	E5.48
1327	E5.47	1453	E5.47	1581	E5.48
1329	E5.47	1457	E5.47	1583	E5.48
1331	E5.47	1459	E5.47	1585	E5.48
1333	E5.47	1461	E5.47	1587	E5.48
1335	E5.47	1463	E5.47	1589	E5.48
1337	E5.47	1465	E5.47	1591	E5.48
1339	E5.47	1467	E5.47	1593	E5.48
1341	E5.47	1469	E5.47	1595	E5.48
1343	E5.47	1471	E5.47	1597	E5.48
1345	E5.47	1473	E5.47	1599	E5.48
1347	E5.47	1475	E5.47	1601	E5.48
1349	E5.47	1477	E5.47	1603	E5.48
1351	E5.47	1479	E5.47	1605	E5.48
1353	E5.47	1481	E5.47	1607	E5.48
1357	E5.47	1483	E5.47	1609	E5.48
1359	E5.47	1485	E5.47	1611	E5.48
1361	E5.47	1487	E5.47	1613	E5.48
1363	E5.47	1489	E5.47	1615	E5.48
1365	E5.47	1491	E5.47	1617	E5.48
1367	E5.47	1493	E5.47	1619	E5.48
1369	E5.47	1495	E5.47	1621	E5.48
1371	E5.47	1497	E5.47	1623	E5.48
1373	E5.47	1499	E5.47	1625	E5.48
1375	E5.47	1501	E5.47	1627	E5.48
1377	E5.47	1503	E5.47	1629	E5.48
1379	E5.47	1505	E5.47	1631	E5.48
1381	E5.47	1507	E5.47	1633	E5.48
1383	E5.47	1509	E5.47	1635	E5.48
1385	E5.47	1511	E5.47	1637	E5.48
1387	E5.47	1513	E5.47	1639	E5.48
1389	E5.47	1515	E5.48	1641	E5.48
1391	E5.47	1517	E5.48	1643	E5.48

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
1645	E5.48
1647	E5.48
1649	E5.48
1651	E5.48
1653	E5.48
1657	E5.48
1659	E5.48
1661	E5.48
1663	E5.48
1665	E5.48
1667	E5.48
1669	E5.48
A1C12-A-C8	B2.29
A1C25-A-C8	B2.29
A1C38-A-C8	B2.29
A1C50-A-C8	B2.29
A2C12-A-C8	B2.30
A2C25-A-C8	B2.30
A2C38-A-C8	B2.30
A2C50-A-C8	B2.30
ABMQS-A-C	B2.5
ABMQS-A-Q	B2.5
ABMQS-A-Q20	B2.5
ABMQS-S6-C	B2.5
ABMT-A-C	B2.5
ABMT-A-C20	B2.5
ABMT-S6-C	B2.5
ABMT-S6-C20	B2.5
ABMT-S6-C60	B2.5
ABMT-S6-C69	B2.5
ACB250-1AR-Q	D2.81
ADCC31-AT-C10	B2.33
AJC12-A-C	B2.29
AJC19-A-C	B2.29
AJC25-A-C	B2.29
AJC31-A-C	B2.29
AJC38-A-C	B2.29
AM2-C	B2.8
AMC25-AT-C10	B2.33
ARC.68-A-Q	B2.27
ARC.68-A-Q14	B2.27
ARC.68-S6-Q	B2.27
ARC.68-S6-Q14	B2.27
ASMS-A-X	B2.8
AST10-5-C100	B2.25
AST15-5-C100	B2.25
AST20-5-C100	B2.25
AST25-5-C100	B2.25
B2M2S-D	B1.50, B1.53
B2M2S-D0	B1.50
B3M2S-TL	B1.50, B1.53
B3M2S-TL0	B1.50
B4M2S-TL	B1.50, B1.53
B4M2S-TL0	B1.50
B3431	E5.22
B3440	E5.22
B3445	E5.22
B3449	E5.22
B3452	E5.22
B3500	E5.11
B3501	E5.11
B3502	E5.11
B3503	E5.24
B3504	E5.24
B3506	E5.24
B3507	E5.13
B3508	E5.31
B3509	E5.31
B3510	E5.24
B3511	E5.24
B3512	E5.16
B3513	E5.8
B3514	E5.27
B3515	E5.27
B3516	E5.11
B3517	E5.10
B3518	E5.24
B3519	E5.22
B3520	E5.24
B3521	E5.22
B3522	E5.24
B3523	E5.24
B3524	E5.24
B3525	E5.28
B3526	E5.22
B3527	E5.28
B3528	E5.24
B3529	E5.24
B3530	E5.16
B3531	E5.22
B3532	E5.22
B3533	E5.8
B3534	E5.11
B3535	E5.24
B3536	E5.16
B3538	E5.24
B3539	E5.22
B3540	E5.24
B3541	E5.16
B3542	E5.11
B3543	E5.28
B3545	E5.28
B3546	E5.13
B3548	E5.10
B3549	E5.28
B3550	E5.22
B3552	E5.13
B3556	E5.11
B3557	E5.28
B3559	E5.28
B3562	E5.28
B3565	E5.28
B3567	E5.28
B3569	E5.28
B3571	E5.28
B3576	E5.28
B3587	E5.11
B3589	E5.27
B3915	E5.22
B3920	E5.24
B3923	E5.20
B3927	E5.20
B4201	E5.82
B4203	E5.82
B4209	E5.82
B4219	E5.82
B4221	E5.82
B4472	E5.82
B4477	E5.82
B4481	E5.82
B4501	E5.26
B4502	E5.22
B4503	E5.22
B4504	E5.31
B4505	E5.14
B4507	E5.31
B4508	E5.22
B4509	E5.30
B4510	E5.31
B4511	E5.7
B4512	E5.20
B4513	E5.13
B4515	E5.31
B4516	E5.31
B4518	E5.10
B4519	E5.21
B4520	E5.7
B4521	E5.24
B4524	E5.10
B4526	E5.26
B4529	E5.24
B4531	E5.26
B4533	E5.26
B4534	E5.31
B4535	E5.8
B4536	E5.31
B4542	E5.13
B4547	E5.13
B4549	E5.31
B4551	E5.20
B4552	E5.20
B4557	E5.24
B4559	E5.24
B4563	E5.24
B4575	E5.24
B4576	E5.24
B4578	E5.24
B4579	E5.31
B4581	E5.21
B4585	E5.21
B4586	E5.23
B4907	E5.8
B4908	E5.8
B4912	E5.8
B4913	E5.30
B4933	E5.82
B4935	E5.21
B4939	E5.82
B4944	E5.23
B4974	E5.23
B4997	E5.22
B5531	E5.24
B5579	E5.31
B5616	E5.13
B5624	E5.24
B7012	E5.7

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
B7024	E5.8
B7025	E5.8
B7026	E5.8
B7027	E5.8
B7028	E5.7
B7029	E5.7
B7030	E5.7
B7031	E5.7
B7032	E5.7
B7033	E5.7
B7038	E5.8
B7039	E5.8
B7040	E5.7
B7041	E5.7
B7042	E5.7
B7050	E5.8
B7075	E5.7
B7076	E5.8
B7077	E5.8
B7078	E5.8
B7079	E5.8
B7080	E5.8
B7081	E5.8
B7082	E5.8
B7100	E5.10
B7182	E5.21
B7183	E5.21
B7184	E5.21
B7185	E5.21
B7186	E5.21
B7187	E5.21
B7188	E5.21
B7189	E5.21
B7191	E5.21
B7192	E5.21
B7193	E5.21
B7194	E5.21
B7195	E5.21
B7196	E5.21
B7199	E5.21
B7200	E5.21
B7201	E5.21
B7202	E5.21
B7203	E5.21
B7204	E5.21
B7205	E5.21
B7206	E5.21
B7208	E5.21
B7209	E5.21
B7210	E5.21
B7211	E5.21
B7217	E5.22
B7218	E5.22
B7219	E5.22
B7220	E5.22
B7221	E5.22
B7222	E5.22
B7223	E5.22
B7224	E5.22
B7225	E5.22
B7226	E5.30
B7227	E5.22
B7228	E5.22
B7229	E5.22
B7230	E5.22
B7240	E5.23
B7241	E5.23
B7244	E5.23
B7245	E5.23
B7246	E5.24
B7247	E5.24
B7248	E5.24
B7249	E5.24
B7250	E5.24
B7251	E5.24
B7252	E5.24
B7253	E5.24
B7254	E5.24
B7255	E5.24
B7256	E5.24
B7257	E5.24
B7258	E5.24
B7259	E5.24
B7260	E5.24
B7261	E5.24
B7262	E5.24
B7263	E5.24
B7267	E5.23
B7268	E5.23
B7269	E5.23
B7270	E5.23
B7271	E5.23
B7288	E5.26
B7289	E5.26
B7290	E5.26
B7291	E5.26
B7292	E5.26
B7293	E5.26
B7294	E5.26
B7295	E5.26
B7297	E5.26
B7298	E5.26
B7299	E5.26
B7300	E5.26
B7301	E5.26
B7302	E5.26
B7303	E5.26
B7304	E5.27
B7323	E5.31
B7324	E5.31
B7325	E5.31
B7326	E5.31
B7327	E5.31
B7328	E5.31
B7329	E5.31
B7330	E5.31
B7331	E5.31
B7332	E5.31
B7333	E5.31
B7340	E5.14
B7341	E5.14
B7342	E5.14
B7343	E5.14
B7344	E5.14
BC1.5I-S8-M	B1.46, B1.53
BC1.5I-S8-M0	B1.47
BC1M-S4-M	B1.46, B1.53
BC1M-S4-M0	B1.47
BC2M-S4-M	B1.46, B1.53
BC2M-S4-M0	B1.47
BC2S-S10-C	B1.46, B1.53
BC2S-S10-C0	B1.47
BC2S-S10-D	B1.53
BC3S-S10-D	B1.46, B1.53
BC3S-S10-D0	B1.47
BC4LH-S25-L	B1.46, B1.53
BC4LH-S25-L0	B1.47
BC4LH-S25-TL	B1.53
BC4S-S10-C	B1.46, B1.53
BC4S-S10-C0	B1.47
BC4S-S10-D	B1.53
BC4S-S10-D30	B1.47
BEC38-A-L	B2.32
BEC38-A-L20	B2.32
BEC62-A-L	B2.32
BEC62-A-L20	B2.32
BEC75-A-L	B2.32
BEC75-A-L20	B2.32
BECP38H25-L	B2.32
BECP38H25-L20	B2.32
BECP75H25-L	B2.32
BECP75H25-L20	B2.32
BF1M-C	B1.50, B1.53
BF1M-M	B1.53
BF1M-M0	B1.50
BF2M-C	B1.50, B1.53
BF2M-M	B1.53
BF2M-M0	B1.50
BLKPSB2/0-AP-12	D2.98
BLKPSB4-2S-12	D2.98
BLKPSB4-AP-12	D2.98
BLKPSB250-3-6	D2.99
BLKPSB600-2-4	D2.99
BM1M-C	B1.50, B1.53
BM1M-M	B1.53
BM1M-M0	B1.50
BM2M-C	B1.50, B1.53
BM2M-M	B1.53
BM2M-M0	B1.50
BM2S-C	B1.50, B1.53
BM2S-D	B1.53
BM2S-D0	B1.50
BM4S-C	B1.50, B1.53
BM4S-D	B1.53
BM4S-D0	B1.50
BP2S-D	B1.53
BP2S-D0	B1.49
BP4-14-C	D2.71
BP4-14T-C	D2.71
BPC1/0-X	D2.64
BPC1-X	D2.64
BPC2/0-X	D2.64
BPC2-L	D2.64
BPC3/0-X	D2.64
BPC4/0-X	D2.64
BPC4-L	D2.64

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
BPC6-L	D2.64
BPC250-X	D2.64
BPC300-X	D2.64
BPC350-X	D2.64
BPC400-X	D2.64
BPC500-X	D2.64
BPC600-6	D2.64
BPC750-6	D2.64
BR-1.5-PAF	C4.6
BR-1.5-SN	C4.6
BR-1.5-TW	C4.6
BR-1.25-1/4-20	C4.6
BR-1.25-10-24	C4.6
BR-1.25-14WS	C4.6
BR-2.0	C4.6
BR-2.0-1/4-20	C4.6
BR-2.0-10-24	C4.6
BR-2.0-14WS	C4.6
BR-2.0-PAF	C4.6
BR-2.0-SN	C4.6
BR-2.0-TW	C4.6
BR2-1.3-X	B2.48
BR2-1.5-X	B2.48
BR2-4-X	B2.48
BR2-6-X	B2.48
BR-4.0-1/4-20	C4.6
BR.5-E6-C	B2.48
BR-.50-10-24	C4.6
BR-.75-10-24	C4.6
BR.75-E6-C	B2.48
BS10-L	D1.52
BS14-C	D1.52
BS18-C	D1.52
BS22-C	D1.52
BSH10-E	D1.54
BSH14-Q	D1.54
BSH18-Q	D1.54
BSN10-2K	D1.95
BSN10-L	D1.51
BSN14-3K	D1.95
BSN14-C	D1.51
BSN18-3K	D1.95
BSN18-C	D1.51
BSN22-C	D1.51
BSP14-3K	D1.95
BSP18-3K	D1.95
BSV10X-Q	D1.51
BSV14X-L	D1.51
BSV18X-LY	D1.51
BT1.5I-C	B1.43, B1.53
BT1.5I-C0	B1.44
BT1.5I-M	B1.53
BT1.5I-M30	B1.45
BT1.5I-M39	B1.45
BT1.5M-C	B1.43, B1.53
BT1.5M-C0	B1.44
BT1.5M-M	B1.53
BT1.5M-M30	B1.45
BT1.5M-XMR	B1.53, B1.106
BT1.5M-XMR0	B1.106
BT1.5M-XMR30	B1.106
BT1M-C	B1.43, B1.53
BT1M-C0	B1.44
BT1M-C30	B1.45
BT1M-M	B1.53
BT1M-M39	B1.45
BT1M-XMR	B1.53, B1.106
BT1M-XMR0	B1.106
BT1M-XMR30	B1.106
BT2I-C	B1.43, B1.53
BT2I-C0	B1.44
BT2I-M	B1.53
BT2I-M30	B1.45
BT2LH-L	B1.43, B1.53
BT2LH-L0	B1.44
BT2LH-TL	B1.53
BT2M-C	B1.43, B1.53
BT2M-C0	B1.44
BT2M-M	B1.53
BT2M-M30	B1.45
BT2S-C	B1.43, B1.53
BT2S-C0	B1.44
BT2S-M	B1.53
BT2S-M30	B1.45
BT2S-M39	B1.45
BT3I-C	B1.43, B1.53
BT3I-C0	B1.44
BT3I-M	B1.53
BT3I-M30	B1.45
BT3LH-L	B1.43, B1.53
BT3LH-L0	B1.44
BT3LH-TL	B1.53
BT3S-C	B1.43, B1.53
BT3S-C0	B1.44
BT3S-M	B1.53
BT3S-M30	B1.45
BT3S-M39	B1.45
BT4I-C	B1.43, B1.53
BT4I-C0	B1.44
BT4I-M	B1.53
BT4LH-L	B1.43, B1.53
BT4LH-L0	B1.44
BT4LH-TL	B1.53
BT4LH-TL30	B1.45
BT4LH-TL39	B1.45
BT4M-C	B1.43, B1.53
BT4M-C0	B1.44
BT4M-M	B1.53
BT4S-C	B1.43, B1.53
BT4S-C0	B1.44
BT4S-M	B1.53
BT4S-M30	B1.45
BT4S-M39	B1.45
BT5LH-C	B1.53
BT5LH-L	B1.43, B1.53
BT5LH-L0	B1.44
BT6LH-C	B1.53
BT6LH-L	B1.43, B1.53
BT6LH-L0	B1.44
BT7LH-C	B1.53
BT7LH-L	B1.43, B1.53
BT7LH-L0	B1.44
BT8LH-C	B1.53
BT8LH-L	B1.43, B1.53
BT8LH-L0	B1.44
BT9LH-C	B1.53
BT9LH-L	B1.43, B1.53
BT9LH-L0	B1.44
BW1.5I-D	B1.48, B1.53
BW2S-D	B1.48, B1.53
BW2S-D0	B1.48
BW3S-D	B1.48, B1.53
BW3S-D0	B1.48
C1.5LG6	C1.19, C1.23
C1LG6	C1.19, C1.23
C2.5LG6	C1.19
C2LG6	C1.9, C1.19, C1.23
C2WH6	C1.9
C3LG6	C1.19, C1.23
C4LG6	C1.19, C1.23
C.5LG6	C1.23
C6LG6	C1.23
C25IG2	C1.21
C025X025KBT	E2.14
C025X025KCT	E2.14
C025X025YJT	E2.14
C37IG2	C1.21
C038X038KBT	E2.14
C038X038KCT	E2.14
C038X038YJJ	E2.28
C038X038YJT	E2.14
C038X038YLJ	E2.28
C50IG2	C1.21
C050X013KBT	E2.14
C050X013KCT	E2.14
C050X020KBT	E2.14
C050X044CBT	E2.14
C050X044KBT	E2.14
C050X044KCT	E2.14
C050X044YJJ	E2.28
C050X044YJT	E2.14
C060X020CBT	E2.14
C060X020KBT	E2.14
C060X020KCT	E2.14
C060X020TJT	E2.14
C060X020YJC	E1.9
C060X020YJJ	E2.28
C060X020YJT	E2.14
C061X030YPT	E2.14
C62IG2	C1.21
C065X019KBT	E2.14
C065X019KCT	E2.14
C75IG2	C1.21
C.75LG6	C1.23
C075X024AAL	E2.28
C075X025AAT	E2.15
C075X025CBT	E2.15
C075X025KBT	E2.15
C075X025KCT	E2.15
C075X025PBT	E2.15
C075X025YJJ	E2.28
C075X025YJT	E2.15
C075X025YLC	E1.9
C075X025YLJ	E2.28
C075X025YML	E2.28
C075X025YMT	E2.15

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Part Number Index

Part Number	Page Number
C075X050YJJ	E2.28
C080X020KBT	E2.15
C080X020KCT	E2.15
C080X020YJJ	E2.28
C080X020YJT	E2.15
C090X025KBT	E2.15
C090X025KCT	E2.15
C090X025TJT	E2.15
C090X025YJT	E2.15
C100IG2	C1.21
C100X019KBT	E2.15
C100X019KCT	E2.15
C100X025CBT	E2.15
C100X025KBT	E2.15
C100X025KCT	E2.15
C100X025YJC	E1.9
C100X025YJJ	E2.28
C100X025YJT	E2.15
C100X025YLC	E1.9
C100X038CBT	E2.15
C100X038KBT	E2.15
C100X038KCT	E2.15
C100X038TJT	E2.15
C100X038YJJ	E2.28
C100X038YJT	E2.15
C100X050A0T	E2.20
C100X050A8T	E2.20
C100X050AAL	E2.28
C100X050AAT	E2.15
C100X050AMT	E2.20
C100X050APT	E2.20
C100X050AST	E2.20
C100X050AUT	E2.20
C100X050AWT	E2.20
C100X050CBC	E1.9
C100X050CBT	E2.15
C100X050PBT	E2.15
C100X050TJT	E2.15
C100X050YJC	E1.9
C100X050YJJ	E2.28
C100X050YJT	E2.15
C100X050YKT	E2.15
C100X050YLJ	E2.28
C100X050YMC	E1.9
C100X050YML	E2.28
C100X050YMT	E2.15
C100X050YPC	E1.9
C100X050YPT	E2.15
C100X075YJJ	E2.28
C100X150YJJ	E2.28
C120X150A0T-22	E2.19
C120X150A8T-22	E2.19
C120X150APT-22	E2.19
C120X150AST-22	E2.19
C120X150AWT-22	E2.19
C120X190A0T-22	E2.19
C120X190A8T-22	E2.19
C120X190APT-22	E2.19
C120X190AST-22	E2.19
C120X190AWT-22	E2.19
C125X025KBT	E2.15
C125X025KCT	E2.15
C125X030A0T	E2.20
C125X030APT	E2.20
C125X030YPT	E2.15
C125X038TJT	E2.15
C125X038YJT	E2.15
C138X019Y0T	E2.15
C138X019YPT	E2.15
C150X025KBT	E2.15
C150X025KCT	E2.15
C150X030Y1T	E2.16
C150X050YJJ	E2.28
C150X050YJT	E2.16
C150X050YLJ	E2.28
C150X050YML	E2.28
C150X075CBT	E2.16
C150X075YJC	E1.9
C150X075YJJ	E2.28
C150X075YJT	E2.16
C150X075YMT	E2.16
C150X075YPC	E1.9
C160X020CBT	E2.16
C160X020KBT	E2.16
C160X020KCT	E2.16
C160X020YJJ	E2.28
C160X020YJT	E2.16
C170X090A8T	E2.20
C170X090AMT	E2.20
C170X090APT	E2.20
C170X090AST	E2.20
C170X090AWT	E2.20
C180X130APT-30H	E2.20
C180X180A0T-30	E2.19
C180X180A8T-30	E2.19
C180X180APT-30	E2.19
C180X180AST-30	E2.19
C180X180AWT-30	E2.19
C188X030YPT	E2.16
C189X047FNC	E1.9
C195X040Y1T	E2.16
C200X025KBT	E2.16
C200X025KCT	E2.16
C200X025YJT	E2.16
C200X038KBT	E2.16
C200X038TJT	E2.16
C200X038YJT	E2.16
C200X050CBC	E1.9
C200X050CBT	E2.16
C200X050YJC	E1.9
C200X050YJJ	E2.28
C200X050YJT	E2.16
C200X050YPC	E1.9
C200X100A0T	E2.20
C200X100A8T	E2.20
C200X100AAL	E2.28
C200X100AAT	E2.16
C200X100AMT	E2.20
C200X100APT	E2.20
C200X100AST	E2.20
C200X100AUT	E2.20
C200X100AWT	E2.20
C200X100PBT	E2.16
C200X100TJT	E2.16
C200X100Y0T	E2.16
C200X100YJC	E1.9, E5.44
C200X100YJJ	E2.28, E5.44
C200X100YJT	E2.16, E5.44
C200X100YKT	E2.16
C200X100YLJ	E2.28
C200X100YMC	E1.9
C200X100YMT	E2.16
C200X100YPC	E1.9
C200X100YPT	E2.16
C200X125YJJ	E2.28
C240X200APT-30H	E2.20
C240X240A0T-30	E2.19
C240X240A8T-30	E2.19
C240X240APT-30	E2.19
C240X240AST-30	E2.19
C240X240AWT-30	E2.19
C252X030A0T	E2.20
C252X030APT	E2.20
C252X030YPT	E2.16
C261X030YPT	E2.16
C261X035Y1T	E2.16
C275X125AAL	E2.28
C275X125AAT	E2.16
C275X125Y0T	E2.16
C275X125YJJ	E2.28
C275X125YJT	E2.16
C275X125YML	E2.28
C275X125YMT	E2.16
C275X125YPT	E2.16
C288X030YPT	E2.16
C288X040Y1T	E2.16
C300X025KBT	E2.17
C300X025KCT	E2.17
C300X025YJT	E2.17
C300X038TJT	E2.17
C300X038YJJ	E2.29
C300X038YJT	E2.17
C300X100A0T	E2.20
C300X100A8T	E2.20
C300X100APT	E2.20
C300X100AUT	E2.20
C300X100AWT	E2.20
C300X100YJJ	E2.29
C300X100YJT	E2.17
C300X100YMT	E2.17
C300X200PBT	E2.17
C300X200YJJ	E2.29
C300X200YJT	E2.17
C300X200YMT	E2.17
C300X200YPT	E2.17
C300X250A0T	E2.20
C300X250A8T	E2.20
C300X250AMT	E2.20
C300X250APT	E2.20
C300X250AST	E2.20
C300X250AUT	E2.20
C300X250AWT	E2.20
C315X030YPT	E2.17
C350X100YJJ	E2.29
C350X100YJT	E2.17
C350X300A0T	E2.21

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
C350X300A8T	E2.21
C350X300APT	E2.21
C350X300AUT	E2.21
C379X030A0T	E2.21
C379X030APT	E2.21
C379X030AQT	E2.21
C379X030AWT	E2.21
C379X030YPT	E2.17
C390X030Y1T	E2.17
C400X100A0T	E2.21
C400X100A8T	E2.21
C400X100AMT	E2.21
C400X100APT	E2.21
C400X100AST	E2.21
C400X100AUT	E2.21
C400X100AWT	E2.21
C400X100CBT	E2.17
C400X100PBT	E2.17
C400X100YJJ	E2.29
C400X100YJT	E2.17
C400X200PBT	E2.17
C400X200Y8T	E2.17
C400X200YJJ	E2.29
C400X200YJT	E2.17
C400X200YMT	E2.17
C400X200YPT-G1	E5.74
C400X200YPT-G2	E5.74
C400X200YPT-G3	E5.74
C400X200YPT-G4	E5.74
C400X300PBT	E2.17
C400X300YJT	E2.17
C400X300YPT	E2.17
C400X400YJJ	E2.29
C400X400YJT	E2.17
C400X400YPT-G1	E5.74
C400X400YPT-G2	E5.74
C400X400YPT-G3	E5.74
C400X400YPT-G4	E5.74
C400X500PBT	E2.17
C400X600PBT	E2.17
C400X600YJT	E2.17
C400X600YPT-G1	E5.74
C400X600YPT-G2	E5.74
C400X600YPT-G3	E5.74
C400X600YPT-G4	E5.74
C750X050Y1T	E2.17
C788X050Y1T	E2.17
C788X050YJJ	E2.29
C850X1100YJJ	E2.29
C850X1100YLJ	E2.29
C3612	E5.24
C3613	E5.28
C3617	E5.25
C3618	E5.25
C3621	E5.24
C3622	E5.16
C3623	E5.25
C3655	E5.20
C3686	E5.10, E5.20
C3791	E5.20
C3793	E5.20
C3799	E5.20
C4601	E5.27
C4603	E5.30
C4604	E5.27
C4627	E5.25
C4643	E5.23
C4644	E5.30
C4647	E5.30
C4663	E5.23
C4683	E5.25
C4722	E5.19
C4756	E5.25
C5643	E5.30
C5662	E5.27
C7007	E5.6
C7015	E5.6
C7061	E5.6
C7062	E5.6
C7063	E5.6
C7099	E5.10
C7129	E5.13
C7140	E5.15
C7147	E5.15
C7175	E5.19
C7176	E5.19
C7177	E5.19
C7178	E5.19
C7179	E5.19
C7180	E5.19
C7181	E5.19
C7197	E5.20
C7231	E5.23
C7232	E5.23
C7233	E5.23
C7234	E5.23
C7235	E5.23
C7236	E5.23
C7237	E5.23
C7278	E5.25
C7279	E5.25
C7280	E5.25
C7281	E5.25
C7282	E5.25
C7283	E5.25
C7284	E5.25
C7306	E5.27
C7307	E5.27
C7308	E5.27
C7309	E5.27
C7310	E5.27
C7311	E5.27
C7312	E5.27
C7313	E5.27
C7314	E5.27
C7315	E5.27
C7322	E5.27
CA3IW-X	C2.8
CA5IW-X	C2.8
CADIN1BL	G1.8
CADIN1IG	G1.8
CADIN1IW	G1.8
CB25-18-CY	D2.79
CB35-36-CY	D2.79
CB70-14-CY	D2.79
CB125-14-QY	D2.79
CB175-38-QY	D2.79
CB225-56HKR-Q	D2.79
CB300-38-QY	D2.79
CB400-38-3Y	D2.79
CB650-12-3Y	D2.79
CBA70-14-CY	D2.79
CBLS18-C	B2.43
CBLS25-C	B2.43
CBLS37-C	B2.43
CBLS50-C	B2.43
CBLS62-C	B2.43
CBLS75-C	B2.43
CBM-X	F.6
CBOT24K	B1.88
CBP12-C	B2.43
CBP25-C	B2.43
CBP31-C	B2.43
CBP37-C	B2.43
CBP50-C	B2.43
CBP62-C	B2.43
CBP75-C	B2.43
CBP87-C	B2.43
CBP100-C	B2.43
CBR1.5I-M	B1.56, B1.62
CBR1.5I-M0	B1.57
CBR1.5I-M30	B1.58
CBR1.5M-M	B1.56, B1.62
CBR1.5M-M0	B1.57
CBR1M-M	B1.56, B1.62
CBR1M-M0	B1.57
CBR1M-M30	B1.58
CBR2HS-D	B1.56, B1.62
CBR2HS-D0	B1.57
CBR2M-M	B1.56, B1.62
CBR2M-M0	B1.57
CBR2S-M	B1.56, B1.62
CBR2S-M0	B1.57
CBR2S-M30	B1.58
CBR2S-M39	B1.58
CBR3I-M	B1.56, B1.62
CBR3I-M0	B1.57
CBR3S-M	B1.56, B1.62
CBR3S-M0	B1.57
CBR3S-M30	B1.58
CBR3S-M69	B1.58
CBR4I-M	B1.56, B1.62
CBR4I-M0	B1.57
CBR4LH-TL	B1.56, B1.62
CBR4LH-TL0	B1.57
CBR4LH-TL30	B1.58
CBR4S-M	B1.56, B1.62
CBR4S-M0	B1.57
CBR6LH-C	B1.56, B1.62
CBR6LH-C0	B1.57
CBR6LH-C30	B1.58
CCB4/0-1AR-Q	D2.81
CCH12-S10-C	B2.37
CCH19-S10-C	B2.37
CCH25-S10-C	B2.37
CCH31-S10-C	B2.37

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Part Number Index

Part Number	Page Number
CCH38-S10-C	B2.37
CCH44-S10-C	B2.37
CCH50-S10-C	B2.37
CCH56-S10-C	B2.37
CCH62-S10-C	B2.37
CCH69-S10-C	B2.37
CCH75-S10-C	B2.37
CCH81-S10-C	B2.37
CCH87-S10-C	B2.37
CCH100-S10-C	B2.37
CCH112-S10-C	B2.37
CCH119-S10-C	B2.37
CCH125-S10-C	B2.37
CCH138-S10-C	B2.37
CCH150-S10-C	B2.37
CCS12-S8-C	B2.37
CCS19-S8-C	B2.37
CCS25-S8-C	B2.37
CCS25-S10-C	B2.37
CCS31-S8-C	B2.37
CCS38-S8-C	B2.37
CCS44-S8-C	B2.37
CCS50-S8-C	B2.37
CD35-36SL-QY	D2.78
CD70-14SL-QY	D2.78
CD125-14SL-QY	D2.78
CD225-56HKR-Q	D2.78
CD300-38HK-3Y	D2.78
CD400-38HK-3Y	D2.78
CD650-12HK-3Y	D2.78
CDCLP2	C1.9
CDCLP3	C1.9
CDCLP4	C1.9
CDLB3	C1.9
CDLB4	C1.9
CDPP8RG	G1.8
CEFXIW-X	C2.7
CF3IW-E	C2.6
CF5IW-E	C2.6
CF10IW-X	C2.6
CF382538F-Q	C3.12
CF502550F-Q	C3.12
CF503850F-Q	C3.12
CF752575F-Q	C3.12
CF753875F-Q	C3.12
CFX3IW-X	C2.7
CFX5IW-X	C2.7
CFX10IW-X	C2.7, C2.8
CH105-A-C14	B2.34
CH105-S6-C14	B2.34
CJ688TGBL	G1.8
CLRCVR1-1	D3.14
CLRCVR2-1	D3.14
CLRCVR3-1	D3.14
CLT25F-10M20	C3.10
CLT25F-C3	C3.10
CLT25F-C4	C3.10
CLT25F-C20	C3.10
CLT25N-10M630	C3.12
CLT25N-C630	C3.12
CLT35F-7M20	C3.10
CLT35F-C3	C3.10
CLT35F-C4	C3.10
CLT35F-C20	C3.10
CLT35N-C630	C3.12
CLT38F-5M20	C3.10
CLT38F-C3	C3.10
CLT38F-C4	C3.10
CLT38F-C20	C3.10
CLT38N-5M630	C3.12
CLT38N-C630	C3.12
CLT50F-4M20	C3.10
CLT50F-C3	C3.10
CLT50F-C4	C3.10
CLT50F-C20	C3.10
CLT50N-4M630	C3.12
CLT50N-C630	C3.12
CLT62F-2.5M20	C3.10
CLT62F-C3	C3.10
CLT62F-C4	C3.10
CLT62F-C20	C3.10
CLT62N-2.5M630	C3.12
CLT62N-C630	C3.12
CLT75F-2M20	C3.10
CLT75F-C3	C3.10
CLT75F-C4	C3.10
CLT75F-C20	C3.10
CLT75N-2M630	C3.12
CLT75N-C630	C3.12
CLT100F-125M20	C3.11
CLT100F-C3	C3.11
CLT100F-C4	C3.11
CLT100F-C20	C3.11
CLT100F-X4	C3.11
CLT100N-125M630	C3.12
CLT100N-C630	C3.12
CLT125F-.75M20	C3.11
CLT125F-L3	C3.11
CLT125F-L4	C3.11
CLT125F-L20	C3.11
CLT125N-.75M630	C3.12
CLT125N-L630	C3.12
CLT150F-D3	C3.11
CLT150F-D4	C3.11
CLT150F-D20	C3.11
CLT150F-T20	C3.11
CLT150F-X3	C3.11
CLT150F-X4	C3.11
CLT150F-X20	C3.11
CLT150N-D630	C3.12
CLT188F-3C20	C3.11
CLT188F-C3	C3.11
CLT188F-C4	C3.11
CLT188F-C20	C3.11
CLT188F-X3	C3.11
CLT188F-X4	C3.11
CLT188F-X20	C3.11
CLT188N-3C630	C3.12
CLTS25F-10M	C3.11
CLTS25F-C	C3.11
CLTS25F-C3	C3.11
CLTS25N-10M	C3.12
CLTS25N-C	C3.12
CLTS35F-C	C3.11
CLTS35F-C3	C3.11
CLTS35N-C	C3.12
CLTS38F-C	C3.11
CLTS38F-C3	C3.11
CLTS38N-C	C3.12
CLTS50F-C	C3.11
CLTS50F-C3	C3.11
CLTS50N-C	C3.12
CLTS62F-C	C3.11
CLTS62F-C3	C3.11
CLTS62N-C	C3.12
CLTS75F-2M	C3.11
CLTS75F-C	C3.11
CLTS75F-C3	C3.11
CLTS75N-2M	C3.12
CLTS75N-C	C3.12
CLTS100F-1.25M	C3.11
CLTS100F-C	C3.11
CLTS100F-C3	C3.11
CLTS100N-C	C3.12
CLTS125F-L	C3.11
CLTS125F-L3	C3.11
CLTS125N-L	C3.12
CLTS150F-D	C3.11
CLTS150F-D3	C3.11
CM4S-L	B1.77
CM4S-L2	B1.76
CM4S-L8	B1.76
CMDJAQLCZBL	G1.8
CMP-100-1	D2.62, D2.99, D3.20
CMP-200-1	D2.62, D3.20
CMP-300-1	D3.20
CMP-300-4-1	D3.20
CO35-36SL-QY	D2.80
CO70-14SL-QY	D2.80
CO125-14SL-QY	D2.80
CO225-56HKR-Q	D2.80
CO300-38HK-3Y	D2.80
CO400-38HK-3Y	D2.80
CO650-12HK-3Y	D2.80
CPH.75-S8-X	B2.48
CPL.75-S8-X	B2.48
CPM87S-C	B2.21
CPM122S-C	B2.21
CR2-M	B2.23
CR4H-M	B2.23
CR4H-M0	B2.23
CRFC5IW-X	C2.6
CRFX5IW-X	C2.7
CROS-M	B2.24
CS1LG6	C1.33
CS25-18SL-CY	D2.77
CS35-36SL-CY	D2.77
CS70-14SL-CY	D2.77
CS125-14SL-QY	D2.77
CS175-38HK-QY	D2.77
CS225-56HKR-Q	D2.77
CS300-38HK-QY	D2.77
CS400-38HK-3Y	D2.77
CS650-12HK-3Y	D2.77
CSA70-14-CY	D2.77
CSC1LG6	C1.32

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
CSCS-M	B2.24
CSH-D0	B2.24
CSH-D20	B2.24
CSM-1.25-C	C4.7
CTAP2/0-2/0-X	D3.13
CTAP2/0-2-X	D3.13
CTAP2-2-X	D3.13
CTAP2-4-Q	D3.13
CTAP4/0-2/0-X	D3.13
CTAP4/0-2-X	D3.13
CTAP4/0-4/0-X	D3.13
CTAP4-4-L	D3.13
CTAP4-6-L	D3.12, D3.13
CTAP4-8-L	D3.12, D3.13
CTAPF1/0-12-L	D3.12
CTAPF1-12-C	D3.12
CTAPF2/0-12-Q	D3.12
CTAPF2-12-C	D3.12
CTAPF3/0-12-Q	D3.12
CTAPF3-12-C	D3.12
CTAPF4-12-C	D3.11
CTAPF6-12-C	D3.11
CTAPF8-12-C	D3.11
CTAPF10-16-C	D3.11
CTH19U04-C30	B2.40
CTH35U08-C30	B2.40
CTH38U10-C30	B2.40
CTH50U13-C30	B2.40
CTH62U17-C30	B2.40
CTH87U22-C30	B2.40
CVR2-1	D3.14
CVR6-1	D3.14
CVR250-1	D3.14
CVR500-1	D3.14
CVR1000-1	D3.14
CW-12-Q	D2.62
CW-14-L	D2.62
CW-38-L	D2.62
CW-56-L	D2.62
CW-58-Q	D2.62
CWD2LG6	C1.9
CWD2WH6	C1.9
CWD3LG6	C1.9
CWD3WH6	C1.9
CWD4LG6	C1.9
CWD4WH6	C1.9
CX225-38HKRT-Q	D2.76
CX225-56HKR-Q	D2.76
CX225-56HKRT-Q	D2.76
CXS35-36-C	D2.75
CXS35-36T-C	D2.75
CXS70-14-C	D2.75
CXS70-14-T-C	D2.75
CXS125-14-Q	D2.75
CXS125-14T-Q	D2.75
CXS125-56-Q	D2.75
CXS125-56T-Q	D2.75
D1.5X2LG6	C1.19
D1.5X3LG6	C1.19
D1.5X4LG6	C1.19
D1X2LG6	C1.19
D1X3LG6	C1.19
D1X4LG6	C1.19
D2.5X3LG6	C1.19
D2H6	C1.30
D2HWH6	C1.30
D2X2LG6	C1.19
D2X3LG6	C1.19
D2X4LG6	C1.19
D3H6	C1.30
D3HWH6	C1.30
D3X2LG6	C1.19
D3X3LG6	C1.19
D3X4LG6	C1.19
D4H6	C1.30
D4HWH6	C1.30
D4X2LG6	C1.19
D4X3LG6	C1.19
D4X4LG6	C1.19
D10-250-L	D1.41
D10-250M-L	D1.44
D14-187-C	D1.41
D14-188-C	D1.41
D14-250-C	D1.41
D14-250MB-C	D1.44
D18-187-C	D1.41
D18-188-C	D1.41
D18-250-C	D1.41
D18-250MB-C	D1.44
D50H2	C1.30
D-250A-C	D1.43
D3018	E5.20
D3019	E5.20
D3020	E5.20
D3026	E5.10
D3029	E5.10
D3034	E5.11
D3035	E5.20
D3036	E5.20
D3114	E5.20
D3120	E5.16
D3132	E5.20
D3134	E5.20
D3145	E5.20
D3148	E5.20
D3155	E5.20
D3156	E5.20
D3161	E5.16
D3164	E5.16
D3165	E5.16
D3166	E5.16
D3167	E5.16
D3168	E5.16
D3170	E5.16
D3175	E5.16
D3176	E5.16
D3177	E5.16
D3178	E5.16
D3251	E5.11
D3253	E5.11
D3275	E5.11
D3277	E5.11
D3279	E5.11
D3280	E5.20
D3284	E5.20
D3285	E5.11
D3290	E5.20
D3291	E5.11
D3296	E5.10
D3297	E5.16
D3298	E5.25
D3304	E5.10, E5.20
D3306	E5.16
D3307	E5.25
D4003	E5.11
D4007	E5.6
D4009	E5.30
D4012	E5.15
D4015	E5.13
D4017	E5.13
D4021	E5.19
D4077	E5.6
D4081	E5.30
D4104	E5.30
D4105	E5.30
D4106	E5.25
D4107	E5.30
D4108	E5.30
D4113	E5.30
D4115	E5.15
D4135	E5.11
D4136	E5.13
D4139	E5.19
D4140	E5.6
D4147	E5.6
D4177	E5.19
D4188	E5.15
D4231	E5.11
D5107	E5.30
D5113	E5.30
D5142	E5.6
D7001	E5.6
D7002	E5.6
D7003	E5.6
D7004	E5.6
D7013	E5.6
D7016	E5.6
D7017	E5.6
D7018	E5.6
D7019	E5.6
D7020	E5.6
D7034	E5.6
D7035	E5.6
D7083	E5.10
D7084	E5.10
D7085	E5.10
D7086	E5.10
D7087	E5.10
D7088	E5.10
D7089	E5.10
D7090	E5.10
D7091	E5.10
D7092	E5.10
D7093	E5.10
D7094	E5.10
D7095	E5.10

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
D7096	E5.10
D7097	E5.10
D7098	E5.10
D7101	E5.10
D7104	E5.10
D7105	E5.10
D7106	E5.10
D7107	E5.10
D7108	E5.10
D7110	E5.11
D7111	E5.11
D7112	E5.11
D7113	E5.11
D7114	E5.11
D7115	E5.11
D7116	E5.11
D7119	E5.13
D7120	E5.13
D7121	E5.13
D7122	E5.13
D7123	E5.13
D7124	E5.13
D7125	E5.13
D7126	E5.13
D7127	E5.13
D7128	E5.13
D7130	E5.15
D7131	E5.15
D7132	E5.15
D7133	E5.15
D7134	E5.15
D7135	E5.15
D7136	E5.15
D7137	E5.15
D7142	E5.15
D7143	E5.15
D7144	E5.15
D7145	E5.15
D7146	E5.15
D7148	E5.16
D7149	E5.16
D7150	E5.16
D7151	E5.16
D7152	E5.16
D7153	E5.16
D7154	E5.16
D7155	E5.16
D7156	E5.16
D7157	E5.16
D7165	E5.19
D7166	E5.19
D7167	E5.19
D7168	E5.19
D7169	E5.19
D7170	E5.19
D7171	E5.19
D7172	E5.19
D7207	E5.20
D7272	E5.25
D7273	E5.25
D7274	E5.25
D7275	E5.25
D7276	E5.25
D7277	E5.25
D7321	E5.27
D7334	E5.14
D7335	E5.14
D7336	E5.14
D7337	E5.14
D7338	E5.14
D7339	E5.14
D7345	E5.10
D7346	E5.10
D7347	E5.10
DB-C	C1.30
DCEFXIW-X	C2.7
DCF3IW-X	C2.6
DCF5IW-X	C2.6
DCF10IW-X	C2.6
DHC1.12X1.75-D	B1.77
DHC1.12X1.75-D0	B1.74
DNF10-250FIB-2K	D1.89
DNF10-250FIB-L	D1.37
DNF10-250FI-L	D1.37
DNF10-250FI-L Female	D1.36
DNF10-250FIMB-K	D1.94
DNF10-250FIMB-Q Male	D1.36
DNF10-250M-L	D1.43
DNF14-110-C	D1.39
DNF14-111-C	D1.39
DNF14-187-C	D1.39
DNF14-187FIB-3K	D1.89
DNF14-187FIB-C	D1.37
DNF14-188-C	D1.39
DNF14-188FIB-3K	D1.89
DNF14-188FIB-C	D1.37
DNF14-205-C	D1.39
DNF14-205FIB-3K	D1.89
DNF14-205FIB-C	D1.37
DNF14-206-C	D1.39
DNF14-206FIB-3K	D1.89
DNF14-206FIB-C	D1.37
DNF14-250-C	D1.39
DNF14-250FIB-3K	D1.89
DNF14-250FIB-C	D1.37
DNF14-250FIB-C Female	D1.36
DNF14-250FI-L	D1.37
DNF14-250FIM-2K	D1.94
DNF14-250FIMB-K	D1.94
DNF14-250FIMB-Q Male	D1.36
DNF14-250FIM-L Male	D1.36
DNF14-250M-C	D1.43
DNF18-110-C	D1.39
DNF18-110FIB-3K	D1.89
DNF18-110FIB-C	D1.37
DNF18-111-C	D1.39
DNF18-111FIB-3K	D1.89
DNF18-111FIB-C	D1.37
DNF18-112FIB-3K	D1.89
DNF18-187-C	D1.39
DNF18-187FIB-3K	D1.89
DNF18-187FIB-C	D1.37
DNF18-188-C	D1.39
DNF18-188FIB-3K	D1.89
DNF18-188FIB-C	D1.37
DNF18-205-C	D1.39
DNF18-205FIB-3K	D1.89
DNF18-205FIB-L	D1.37
DNF18-206-C	D1.39
DNF18-206FIB-3K	D1.89
DNF18-206FIB-L	D1.37
DNF18-250-C	D1.39
DNF18-250FIB-3K	D1.89
DNF18-250FIB-C	D1.37
DNF18-250FIB-C Female	D1.36
DNF18-250FI-L	D1.37
DNF18-250FIM-2K	D1.94
DNF18-250FIMB-K	D1.94
DNF18-250FIMB-L Male	D1.36
DNF18-250FIM-L Male	D1.36
DNF18-250M-C	D1.43
DNF10250FIBC-2K	D1.89
DNF14205FIBX-2K	D1.90
DNF14206FIBX-2K	D1.90
DNF14206FIBX-L	D1.37
DNF14250FIBX-2K	D1.90
DNF14250FIBX-L	D1.37
DNF14250FIMX-2K	D1.94
DNF18205FIBX-2K	D1.90
DNF18205FIBX-L	D1.37
DNF18206FIBX-2K	D1.90
DNF18206FIBX-L	D1.37
DNF18250FIBX-2K	D1.90
DNF18250FIBX-L	D1.37
DNF18250FIMX-2K	D1.94
DNFR14-205B-L	D1.42
DNFR14-205FIB-L	D1.41
DNFR14-206B-L	D1.42
DNFR14-206FIB-L	D1.41
DNFR14-250B-L	D1.42
DNFR14-250FIB-L	D1.41
DNFR18-205B-L	D1.42
DNFR18-205FIB-L	D1.41
DNFR18-206B-L	D1.42
DNFR18-206FIB-L	D1.41
DNFR18-250B-L	D1.42
DNFR18-250FIB-L	D1.41
DNFR14205FIB-KD	D1.90
DNFR14206FIB-KD	D1.90
DNFR14250FIB-KD	D1.90
DNFR18205FIB-KD	D1.90
DNFR18206FIB-KD	D1.90
DNFR18250FIB-KD	D1.90
DNG14-187FB-3K	D1.88
DNG14-187FB-L	D1.35
DNG14-188FB-3K	D1.88
DNG14-188FB-L	D1.35
DNG14-250FB-3K	D1.88
DNG14-250FB-L	D1.35
DNG18-187FB-3K	D1.88
DNG18-187FB-C	D1.35
DNG18-188FB-3K	D1.88
DNG18-188FB-C	D1.35
DNG18-250FB-3K	D1.88
DNG18-250FB-L	D1.35
DNH10-250FI-E	D1.39

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
DNH14-250FIB-Q	D1.39
DNH14-250FIM-Q	D1.39
DNH18-250FIB-Q	D1.39
DNH18-250FIM-Q	D1.39
DPF10-250FIB-2K	D1.92
DPF10-250FIB-L	D1.38
DPF10-250FI-L	D1.38
DPF14-187FIB-3K	D1.92
DPF14-205FIB-3K	D1.92
DPF14-205FIB-C	D1.38
DPF14-206FIB-3K	D1.92
DPF14-206FIB-C	D1.38
DPF14-250FIB-3K	D1.92
DPF14-250FIB-C	D1.38
DPF14-250FIM-2K	D1.93
DPF14-250FIMB-K	D1.93
DPF14-250FIMB-Q	D1.38
DPF14-250FIM-L	D1.38
DPF18-110FIB-3K	D1.92
DPF18-110FIB-C	D1.38
DPF18-111FIB-3K	D1.92
DPF18-111FIB-C	D1.38
DPF18-187FIB-3K	D1.92
DPF18-188FIB-3K	D1.92
DPF18-205FIB-3K	D1.92
DPF18-205FIB-C	D1.38
DPF18-206FIB-3K	D1.92
DPF18-206FIB-C	D1.38
DPF18-250FIB-3K	D1.92
DPF18-250FIB-C	D1.38
DPF18-250FIM-2K	D1.93
DPF18-250FIMB-K	D1.93
DPF18-250FIMB-L	D1.38
DPF18-250FIM-L	D1.38
DR10-250-L	D1.42
DR14-205-C	D1.42
DR14-206-C	D1.42
DR14-250-C	D1.42
DR18-205-C	D1.42
DR18-206-C	D1.42
DR18-250-C	D1.42
DRD22LG6	C1.5
DRD33LG6	C1.5
DRD44LG6	C1.5
DRDC2LG6	C1.5
DRDC3LG6	C1.5
DRDC4LG6	C1.5
DRDCS2-X	C1.5
DRDCS3-X	C1.5
DRDCS4-X	C1.5
DRDSF-C	C1.5
DRDWR2-X	C1.5
DRDWR3-X	C1.5
DRDWR4-X	C1.5
DS1	C3.17
DS5	C3.17
DT4EH-L0	B1.51, B1.53
DT8EH-Q0	B1.51, B1.53
DT14EH-C0	B1.53
DT14EH-L0	B1.51, B1.53
DT15EH-L0	B1.51, B1.53
DT28EH-C0	B1.51, B1.53
DT44EH-C0	B1.51, B1.53
DTHEH-Q0	B1.51, B1.53
DTHH-Q0	B1.51, B1.53
DTKEH-0	B1.51, B1.53
DTKH-0	B1.51, B1.53
DTREH-LR0	B1.51, B1.53
DTRH-LR0	B1.51, B1.53
DV10-250-2K	D1.91
DV10-250C-2K	D1.91
DV10-250-L	D1.40
DV10-250M-L	D1.44
DV14-187B-3K	D1.91
DV14-187B-C	D1.40
DV14-188B-3K	D1.91
DV14-188B-C	D1.40
DV14-205B-3K	D1.91
DV14-205B-C	D1.40
DV14-206B-3K	D1.91
DV14-206B-C	D1.40
DV14-250B-3K	D1.91
DV14-250B-C	D1.40
DV14-250MB-C	D1.44
DV14-250P-L	D1.43
DV18-187B-3K	D1.91
DV18-187B-CY	D1.40
DV18-188B-3K	D1.91
DV18-188B-CY	D1.40
DV18-205B-3K	D1.91
DV18-205B-CY	D1.40
DV18-206B-3K	D1.91
DV18-206B-CY	D1.40
DV18-250B-3K	D1.91
DV18-250B-CY	D1.40
DV18-250MB-CY	D1.44
DV18-250P-LY	D1.43
DVF14-187-C	D1.40
DVF14-188-C	D1.40
DVF14-205-C	D1.40
DVF14-206-C	D1.40
DVF14-250-C	D1.40
DVF18-187-CY	D1.40
DVF18-188-CY	D1.40
DVF18-205-CY	D1.40
DVF18-206-CY	D1.40
DVF18-250-CY	D1.40
ECF3IW-E	C2.6
ECF5IW-E	C2.6
ECF10IW-X	C2.6
ECFX3IW-X	C2.7
ECFX5IW-X	C2.7
ECFX10IW-X	C2.7, C2.8
EEFXIW	C2.8
EMA-X	B2.8
EMPLUS-2GO	E1.16
EMPLUS-CD	E1.16
EMPLUS-DL	E1.16
EMPLUS-SERVER	E1.16
EMS-A-C	B2.7
EMS-A-C0	B2.7
EMSK3-1-3-0	B2.8
EMSK3-1-X0	B2.8
EMSK12-4-12-X0	B2.8
ER1.25-E4-X	B2.48
ER.5-E4-X	B2.48
ERT2M-C20	B1.87
ERT3M-C20	B1.87
ERT4.5M-C20	B1.87
F1.5X1.5LG6	C1.17
F1.5X1.5LG6-A	C1.36
F1.5X1LG6	C1.17
F1.5X1LG6-A	C1.36
F1.5X2LG6	C1.17
F1.5X2LG6-A	C1.36
F1.5X3LG6	C1.17
F1.5X3LG6-A	C1.36
F1.5X3WH6-A	C1.36
F1.5X4LG6	C1.17
F1.5X4LG6-A	C1.36
F1.5X4WH6-A	C1.36
F1X1.5LG6	C1.17
F1X1.5LG6-A	C1.36
F1X1LG6	C1.17
F1X1LG6-A	C1.36
F1X2LG6	C1.17
F1X2LG6-A	C1.36
F1X2WH6-A	C1.36
F1X3LG6	C1.17
F1X3LG6-A	C1.36
F1X3WH6-A	C1.36
F1X4LG6	C1.17
F1X4LG6-A	C1.36
F1X4WH6-A	C1.36
F2.5X3LG6	C1.17
F2X1.5LG6	C1.17
F2X1.5LG6-A	C1.36
F2X1LG6	C1.17
F2X1LG6-A	C1.36
F2X2LG6	C1.17
F2X2LG6-A	C1.36
F2X2WH6-A	C1.36
F2X3LG6	C1.17
F2X3LG6-A	C1.36
F2X3WH6-A	C1.36
F2X4LG6	C1.17
F2X4LG6-A	C1.36
F2X4WH6-A	C1.36
F2X5LG6	C1.17
F2X5LG6-A	C1.36
F3X1LG6	C1.17
F3X1LG6-A	C1.36
F3X2LG6	C1.17
F3X2LG6-A	C1.36
F3X3LG6	C1.17
F3X3LG6-A	C1.36
F3X3WH6-A	C1.36
F3X4LG6	C1.17
F3X4LG6-A	C1.36
F3X4WH6-A	C1.36
F3X5LG6	C1.17
F3X5LG6-A	C1.36
F4X2LG6	C1.17
F4X2LG6-A	C1.36
F4X3LG6	C1.17
F4X3LG6-A	C1.36

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Part Number Index

Part Number	Page Number
F4X3WH6-A	C1.36
F4X4LG6	C1.17
F4X4LG6-A	C1.36
F4X4WH6-A	C1.36
F4X5LG6	C1.17
F4X5LG6-A	C1.36
F.5X1LG6	C1.17
F.5X1LG6-A	C1.36
F.5X.5LG6	C1.17
F.5X.5LG6-A	C1.36
F6X4LG6	C1.17
F73-5-M	D1.62
F73-7-M	D1.62
F74-5-M	D1.62
F74-7-M	D1.62
F75-6-M	D1.62
F75-8-M	D1.62
F75-10-M	D1.62
F.75X1.5LG6	C1.17
F.75X1.5LG6-A	C1.36
F.75X.75LG6	C1.17
F.75X.75LG6-A	C1.36
F76-6-M	D1.62
F76-8-M	D1.62
F76-10-M	D1.62
F76-12-M	D1.62
F77-6-M	D1.62
F77-7-M	D1.62
F77-8-M	D1.62
F77-10-M	D1.62
F77-12-M	D1.62
F78-7-M	D1.62
F78-8-M	D1.62
F78-10-M	D1.62
F78-12-M	D1.62
F78-15-M	D1.62
F78-18-M	D1.62
F78-20-M	D1.62
F80-7-M	D1.62
F80-8-M	D1.62
F80-10-M	D1.62
F80-12-M	D1.62
F80-15-M	D1.62
F80-18-M	D1.62
F80-20-M	D1.62
F81-9-M	D1.62
F81-10-M	D1.62
F81-12-M	D1.62
F81-15-M	D1.62
F81-18-M	D1.62
F81-20-M	D1.62
F82-10-M	D1.62
F82-12-M	D1.62
F82-15-M	D1.62
F82-18-M	D1.62
F82-20-M	D1.62
F83-12-D	D1.63
F83-15-D	D1.63
F83-18-D	D1.63
F83-20-D	D1.63
F83-25-D	D1.63
F84-12-TL	D1.63
F84-15-TL	D1.63
F84-18-TL	D1.63
F84-20-TL	D1.63
F84-25-TL	D1.63
F84-32-TL	D1.63
F85-12-C	D1.63
F85-15-C	D1.63
F85-18-C	D1.63
F85-25-C	D1.63
F85-32-C	D1.63
F86-18-C	D1.63
F86-20-C	D1.63
F86-25-C	D1.63
F86-32-C	D1.63
F87-18-C	D1.63
F87-22-C	D1.63
F87-25-C	D1.63
F87-32-C	D1.63
F89-25-L	D1.63
F89-32-L	D1.63
F90-25-L	D1.63
F90-30-L	D1.63
F90-32-L	D1.63
F91-32-L	D1.63
F91-40-L	D1.63
F92-32-L	D1.63
F92-38-L	D1.63
F93-32-Q	D1.63
F93-40-Q	D1.63
F94-40-Q	D1.63
F100X150AJC	E1.7
FBA3IW-X	C2.6
FBA5IW-X	C2.6
FBA10IW-X	C2.6
FCBI1-A-C20	B2.23
FCBI1-S10-C20	B2.23
FCBI2-A-C20	B2.23
FCBI2-S10-C20	B2.23
FCBI3-A-C20	B2.23
FCBI3-S10-C20	B2.23
FCC5-A-C8	B2.36
FCC-A-C8	B2.36
FCH2-A-C14	B2.35
FCH2-S6-C14	B2.35
FCM1.2-A-C14	B2.35
FCM1.2-S6-C14	B2.35
FCM1-A-C14	B2.35
FCM1-S6-C14	B2.35
FCM2-A-C14	B2.35
FCM2-S6-C14	B2.35
FCM3.25-A-L14	B2.35
FCM3.25-S6-L14	B2.35
FCPI1-C20	B2.23
FCPI2-C20	B2.23
FCPI3-C20	B2.23
FDME8RG	G1.8
FL12X12LG-A	C1.30
FL25X25LG-A	C1.30
FL50X50LG-A	C1.30
FMWR-C	C1.32
FS1.5X1.5BL6-A	C1.36
FS1.5X1.5LG6-A	C1.36
FS1.5X1.5LG6NM	C1.23
FS1.5X1.5WH6-A	C1.36
FS1.5X1LG6NM	C1.23
FS1.5X2LG6NM	C1.23
FS1.5X3LG6NM	C1.23
FS1X1.5LG6-A	C1.36
FS1X1.5LG6NM	C1.23
FS1X1LG6NM	C1.23
FS1X1WH6-A	C1.36
FS1X2LG6NM	C1.23
FS1X3LG6NM	C1.23
FS1X4LG6NM	C1.23
FS2X1.5LG6NM	C1.23
FS2X1LG6NM	C1.23
FS2X2LG6NM	C1.23
FS2X3LG6NM	C1.23
FS2X4LG6NM	C1.23
FS3X1LG6NM	C1.23
FS3X2LG6NM	C1.23
FS3X3LG6NM	C1.23
FS3X4LG6NM	C1.23
FS3X5LG6NM	C1.23
FS4X1.5LG6	C1.23
FS4X2LG6NM	C1.23
FS4X3LG6NM	C1.23
FS4X4LG6NM	C1.23
FS4X5LG6NM	C1.23
FS.5X1LG6NM	C1.23
FS.5X.5LG6NM	C1.23
FS6X4LG6-A	C1.36
FS6X4LG6NM	C1.23
FS.75X.75LG6NM	C1.23
FS156-C	B2.49
FSD72-6-D	D1.57
FSD72-8-D	D1.57
FSD73-6-D	D1.57
FSD73-8-D	D1.57
FSD74-6-D	D1.57
FSD74-8-D	D1.57
FSD75-6-D	D1.58
FSD75-8-3K10	D1.98
FSD75-8-D	D1.58
FSD75-8-DSL10	D1.61, D1.97
FSD75-8-K	D1.98
FSD75-10-D	D1.58
FSD76-6-D	D1.58
FSD76-8-3K8	D1.98
FSD76-8-D	D1.58
FSD76-8-DSL8	D1.61, D1.97
FSD76-8-K	D1.98
FSD76-10-D	D1.58
FSD76-12-D	D1.58
FSD77-6-D	D1.58
FSD77-8-3K2	D1.98
FSD77-8-D	D1.58
FSD77-8-DSL2	D1.61, D1.97
FSD77-8-K	D1.98
FSD77-10-D	D1.58
FSD77-12-D	D1.58
FSD78-6-D	D1.58
FSD78-8-2KD0	D1.98
FSD78-8-D	D1.58

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
FSD78-8-DSL0	D1.61, D1.97
FSD78-8-K	D1.98
FSD78-10-D	D1.58
FSD78-12-D	D1.58
FSD78-18-D	D1.58
FSD79-8-D	D1.58
FSD80-8-D	D1.58
FSD80-8-DK	D1.98
FSD80-8-DSL6	D1.61, D1.97
FSD80-8-KD6	D1.98
FSD80-12-D	D1.58
FSD80-18-D	D1.58
FSD81-10-D	D1.58
FSD81-12-C	D1.58
FSD81-18-C	D1.58
FSD82-12-C	D1.58
FSD82-18-C	D1.58
FSD83-12-C	D1.58
FSD83-18-C	D1.58
FSD84-12-C	D1.58
FSD84-18-C	D1.58
FSD85-16-L	D1.58
FSD85-18-L	D1.58
FSD85-22-L	D1.58
FSD86-16-L	D1.58
FSD86-18-L	D1.58
FSD86-25-L	D1.58
FSD87-20-L	D1.59
FSD87-25-Q	D1.59
FSD89-20-Q	D1.59
FSD89-27-Q	D1.59
FSD90-25-Q	D1.59
FSD91-27-Q	D1.59
FSD92-32-Q	D1.59
FSDX75-8-D	D1.59
FSDX76-8-D	D1.59
FSDX77-8-D	D1.59
FSDX78-8-D	D1.59
FSDX84-12-C	D1.59
FSDXL78-8-C	D1.60
FSDXL78-10-C	D1.60
FSDXL80-8-C	D1.60
FSDXL80-12-C	D1.60
FSDXL81-10-C	D1.60
FSDXL82-12-C	D1.60
FSDXL83-12-C	D1.60
FSDXL84-12-C	D1.60
FSH40-X	B2.49
FSHH-X	B2.49
FTD75-8-D	D1.61
FTD76-8-D	D1.61
FTD76-10-D	D1.61
FTD77-8-D	D1.61
FTD77-10-D	D1.61
FTD78-8-D	D1.61
FTD78-12-D	D1.61
FTD80-10-TL	D1.61
FTD80-13-TL	D1.61
FTD81-12-C	D1.61
FTD82-14-C	D1.61
FTD83-14-C	D1.61
FTD84-16-C	D1.61
FWR-C	C1.32
G1.5X1.5LG6	C1.15
G1.5X1.5LG6-A	C1.36
G1.5X1.5WH6-A	C1.36
G1.5X1LG6	C1.15
G1.5X1LG6-A	C1.36
G1.5X1WH6-A	C1.36
G1.5X2LG6	C1.15
G1.5X2LG6-A	C1.36
G1.5X2WH6-A	C1.36
G1.5X3LG6	C1.15
G1.5X3LG6-A	C1.36
G1.5X3WH6-A	C1.36
G1.5X4LG6	C1.15
G1.5X4LG6-A	C1.36
G1.5X4WH6-A	C1.36
G1X1.5LG6	C1.15
G1X1.5LG6-A	C1.36
G1X1.5WH6-A	C1.36
G1X1LG6	C1.15
G1X1LG6-A	C1.36
G1X1WH6-A	C1.36
G1X2LG6	C1.15
G1X2LG6-A	C1.36
G1X2WH6-A	C1.36
G1X3BL6-A	C1.36
G1X3LG6	C1.15
G1X3LG6-A	C1.36
G1X3WH6-A	C1.36
G1X4LG6	C1.15
G1X4LG6-A	C1.36
G1X4WH6-A	C1.36
G2.5X3LG6	C1.15
G2.5X3LG6-A	C1.36
G2.5X3WH6-A	C1.36
G2X1.5LG6	C1.15
G2X1.5LG6-A	C1.36
G2X1.5WH6-A	C1.36
G2X1LG6	C1.15
G2X1LG6-A	C1.36
G2X1WH6-A	C1.36
G2X2BL6-A	C1.36
G2X2LG6	C1.15
G2X2LG6-A	C1.36
G2X2LG6EMI	C1.7
G2X2WH6-A	C1.36
G2X3LG6	C1.15
G2X3LG6-A	C1.36
G2X3LG6EMI	C1.7
G2X3WH6-A	C1.36
G2X4BL6-A	C1.36
G2X4LG6	C1.15
G2X4LG6-	C1.36
G2X4LG6EMI	C1.7
G2X4WH6-A	C1.36
G2X5LG6	C1.15
G2X5LG6-A	C1.36
G2X5WH6-A	C1.36
G3X1LG6	C1.15
G3X1LG6-A	C1.36
G3X1WH6-A	C1.36
G3X2LG6	C1.15
G3X2LG6-A	C1.36
G3X2WH6-A	C1.36
G3X3BL6-A	C1.36
G3X3LG6	C1.15
G3X3LG6-A	C1.36
G3X3WH6-A	C1.36
G3X4LG6	C1.15
G3X4LG6-A	C1.36
G3X4WH6-A	C1.36
G3X5LG6	C1.15
G3X5LG6-A	C1.36
G3X5WH6-A	C1.36
G4X1.5LG6	C1.15
G4X1.5LG6-A	C1.36
G4X1.5WH6-A	C1.36
G4X2LG6	C1.15
G4X2LG6-A	C1.36
G4X2WH6-A	C1.36
G4X3LG6	C1.15
G4X3LG6-A	C1.36
G4X3WH6-A	C1.36
G4X4BL6-A	C1.36
G4X4LG6	C1.15
G4X4LG6-A	C1.36
G4X4WH6-A	C1.36
G4X5LG6	C1.15
G4X5LG6-A	C1.36
G4X5WH6-A	C1.36
G.5X1LG	C1.15
G.5X1LG6-A	C1.36
G.5X1WH6-A	C1.36
G.5X2LG6	C1.15
G.5X4LG6	C1.15
G.5X.5LG6	C1.15
G.5X.5LG6-A	C1.36
G.5X.5WH6-A	C1.36
G6X4LG6	C1.15
G.75X1.5LG6	C1.15
G.75X1.5LG6-A	C1.36
G.75X1.5WH6-A	C1.36
G.75X1LG6	C1.15
G.75X1LG6-A	C1.36
G.75X1WH6-A	C1.36
G.75X2LG6	C1.15
G.75X2LG6-A	C1.36
G.75X2WH6-A	C1.36
G.75X.75LG6	C1.15
G.75X.75LG6-A	C1.36
GB2A18I	D3.7
GB2B0304TPI-1	D3.5
GB2B0306TPI-1	D3.5
GB2B0312TPI-1	D3.5
GB2B0514TPI-1	D3.5
GB2D0008TPI-1	D3.6
GB2D0021TPI-1	D3.6
GB2D0033TPI-1	D3.6
GB2D0044TPI-1	D3.6
GB2D0056TPI-1	D3.6
GB4A00I	D3.7
GB4A0606I	D3.7
GB4A0803I	D3.7
GB4A0808I	D3.7

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Part Number Index

Part Number	Page Number
GB4B0612TPI-1	D3.5
GB4B0624TPI-1	D3.5
GB4B1028TPI-1	D3.5
GB4N0007TPI-1	D3.6
GB4N0016TPI-1	D3.6
GB4N0024TPI-1	D3.6
GB4N0026TPI-1	D3.6
GB4N0034TPI-1	D3.6
GBC2250-12-X	D3.26
GC-15A-Q	D3.24
GC-18A-X	D3.24
GC-22A-4	D3.24
GCC6X61/0-1/0	D3.9
GCC6X6250-1/0	D3.9
GCC6X6250-250	D3.9
GCC6X6500-1/0	D3.9
GCC6X6500-250	D3.9
GCE1/0-1/0	D3.8
GCE250-1/0	D3.8
GCE250-250	D3.8
GCE500-1/0	D3.8
GCE500-250	D3.8
GCE500-500	D3.8
GE52-C	C3.9
GE52-C69	C3.9
GE85-C	C3.9
GE85-C69	C3.9
GE128-C	C3.9
GE128-C69	C3.9
GE192-L	C3.9
GE192-L69	C3.9
GE255-L	C3.9
GE318-L	C3.9
GE380-Q	C3.9
GE510-Q	C3.9
GEE36F-C	C3.7
GEE36F-C0	C3.7
GEE36FR-CY	C3.8
GEE47N-C	C3.9
GEE55N-C	C3.9
GEE62F-A-C	C3.8
GEE62F-A-C0	C3.8
GEE62F-C	C3.7
GEE62F-C0	C3.7
GEE62FR-CY	C3.8
GEE71N-C	C3.9
GEE98N-C	C3.9
GEE99F-A-C	C3.8
GEE99F-A-C0	C3.8
GEE99F-C	C3.7
GEE99F-C0	C3.7
GEE99FR-CY	C3.8
GEE134N-C	C3.9
GEE144F-A-C	C3.8
GEE144F-A-C0	C3.8
GEE144F-C	C3.7
GEE144F-C0	C3.7
GEE144FR-CY	C3.8
GES36F-C	C3.8
GES36F-C0	C3.8
GES36FR-CY	C3.9
GES62F-A-C	C3.8
GES62F-A-C0	C3.8
GES62F-C	C3.8
GES62F-C0	C3.8
GES62FR-CY	C3.9
GES99F-A-C	C3.8
GES99F-A-C0	C3.8
GES99F-C	C3.8
GES99F-C0	C3.8
GES99FR-CY	C3.9
GES144F-A-C	C3.8
GES144F-A-C0	C3.8
GES144F-C	C3.8
GES144F-C0	C3.8
GES144FR-CY	C3.9
GES189F-C	C3.8
GES189F-C0	C3.8
GLMHK	D3.7, D3.10
GM-1-Q	D3.25
GM-2-Q	D3.25
GM-3-Q	D3.25
GM-4-X	D3.25
GMS-1-X	D3.26
GMS-2-Q	D3.26
GMS-3-Q	D3.26
GPC2-1-Q	D3.22
GPC2-2-L	D3.22
GPC2-4-X	D3.22
GPC2-6-X	D3.22
GPC4-1-1-L	D3.23
GPC4-1-12-Q	D3.23
GPC4-1-34-L	D3.23
GPC4-2-1-Q	D3.23
GPC4-2-12-L	D3.23
GPC4-2-34-Q	D3.23
GPC4-4-1-X	D3.23
GPC4-4-12-X	D3.23
GPC4-4-34-X	D3.23
GPC4-6-1-X	D3.23
GPC4-6-12-X	D3.23
GPC4-6-34-5	D3.23
GPC4H250-2	D3.11
GPCA2-1-C	D3.24
GPCA2-1D-C	D3.24
GPCA2-2-L	D3.24
GPCA2-4-X	D3.24
GPCA2-6-X	D3.24
GPCJ2-1-C	D3.22
GPCS4-1-12-L	D3.23
GPCS4-2-12-L	D3.23
GPCS4-4-12-L	D3.23
GPL-4-Q	D3.21
GPL-5-Q	D3.21
GPL-6-Q	D3.21
GPL-8-Q	D3.21
GPL-9-Q	D3.21
GPL-10-Q	D3.21
GPL-14-X	D3.21
GPL-15-X	D3.21
GPL-16-X	D3.21
GPL-20-X	D3.21
GPL-21-X	D3.21
GPL-22-X	D3.21
GPL-26-X	D3.21
GPL-27-X	D3.21
GPL-28-X	D3.21
GPL-32-3	D3.21
GPL-33-3	D3.21
GPL-34-3	D3.21
GPL-39-3	D3.21
GPL-40-3	D3.21
GPL-44-1	D3.21
GPL-45-1	D3.21
GPL-46-1	D3.21
GPL-51-1	D3.21
GPL-52-1	D3.22
GPL-57-1	D3.22
GPL-58-1	D3.22
GPL-75-X	D3.22
GPQC07-1/0	D3.4
GPQC10-1/0	D3.4
GPQC12-1/0	D3.4
GPQC15-1/0	D3.4
GPQC17-1/0	D3.4
GPQC20-1/0	D3.4
GRC2-12-TL	D3.25
GRC2-34-T	D3.25
GRC2-58-TL	D3.25
GRC4-38-TL	D3.25
GRCH1/0-34-E	D3.25
GRCH1/0-58-T	D3.25
GRCH2-12-T	D3.25
GSP1-4-2/0-L	D3.18
GSP1-6-2-C	D3.18
GSP1-10-4-C	D3.18
GSP1-12-6-C	D3.18
GSP2-2-2/0-L	D3.19
GSP2-10-2-C	D3.19
GSP2-10-4-C	D3.19
GSP2-12-6-C	D3.19
GU-2-X	D3.22
GU-4-X	D3.22
GU-11-X	D3.22
GU-13-3	D3.22
GUBC4/0-6	D3.10
GUBC500-6	D3.10
GUBC500-6TP	D3.10
H000X025H1C	E1.8
H000X025H2C	E1.8
H000X034H1C	E1.8
H000X034H2C	E1.8
H000X044H1C	E1.8
H000X044H2C	E1.8
H000X064H1C	E1.8
H000X064H2C	E1.8
H000X084H1C	E1.8
H000X084H2C	E1.8
H1.5X2LG6	C1.11
H1.5X3LG6	C1.11
H2L4-2N-X	D2.74
H2L8-2N-2	D2.74
H2L13-2N-2	D2.74
H2L21-2N-2	D2.74
H2L30-2N-1	D2.74
H2X2LG6	C1.11

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
H2X3LG	C1.11
H2X4LG6	C1.11
H3X3LG6	C1.11
H3X4LG6	C1.11
H4X4LG6	C1.11
H050X025H1T	E2.10
H050X034H1T	E2.10
H050X044H1T	E2.10
H050X064H1T	E2.10
H050X084H1T	E2.10
H050X165H1T	E2.10
H075X025H1T	E2.10
H075X034H1T	E2.10
H075X044H1T	E2.10
H100X025H1C	E1.8
H100X025H1T	E2.10
H100X025H1T-2	E2.11
H100X025H2C	E1.8
H100X025H2T-2	E2.11
H100X025HFT-2	E2.12
H100X025HGT-2	E2.12
H100X034H1C	E1.8
H100X034H1T	E2.10
H100X034H1T-2	E2.11
H100X034H2C	E1.8
H100X034H2T-2	E2.11
H100X034HFT-2	E2.12
H100X034HGT-2	E2.12
H100X034HST-2	E2.13
H100X044H1C	E1.8
H100X044H1T	E2.10
H100X044H1T-2	E2.11
H100X044H2C	E1.8
H100X044H2T-2	E2.11
H100X044HFT-2	E2.12
H100X044HGT-2	E2.12
H100X044HST-2	E2.13
H100X064H1C	E1.8
H100X064H1T	E2.10
H100X064H1T-2	E2.11
H100X064H2C	E1.8
H100X064H2T-2	E2.11
H100X064HFT-2	E2.12
H100X064HGT-2	E2.12
H100X064HST-2	E2.13
H100X084H1C	E1.8
H100X084H1T	E2.10
H100X084H1T-2	E2.11
H100X084H2C	E1.8
H100X084H2T-2	E2.11
H100X084HFT-2	E2.12
H100X084HGT-2	E2.12
H100X084HST-2	E2.13
H100X122H1T-2	E2.11
H100X122H2T-2	E2.11
H100X165H1T	E2.10
H100X165H1T-2	E2.11
H100X165H2T-2	E2.11
H100X165HFT-2	E2.12
H100X165HGT-2	E2.12
H100X165HST-2	E2.13
H150X025H1T	E2.10
H150X034H1T	E2.10
H150X044H1T	E2.10
H200X025H1T	E2.10
H200X025H1T-2	E2.11
H200X025H2T-2	E2.11
H200X025HFT-2	E2.12
H200X025HGT-2	E2.12
H200X034H1T	E2.10
H200X034H1T-2	E2.11
H200X034H2T-2	E2.11
H200X034HFT-2	E2.12
H200X034HGT-2	E2.12
H200X034HST-2	E2.13
H200X044H1T	E2.10
H200X044H1T-2	E2.11
H200X044H2T-2	E2.11
H200X044HFT-2	E2.12
H200X044HGT-2	E2.12
H200X044HST-2	E2.13
H200X064H1T	E2.10
H200X064H1T-2	E2.11
H200X064H2T-2	E2.11
H200X064HFT-2	E2.12
H200X064HGT-2	E2.12
H200X064HST-2	E2.13
H200X084H1T	E2.10
H200X084H1T-2	E2.11
H200X084H2T-2	E2.11
H200X084HFT-2	E2.12
H200X084HGT-2	E2.12
H200X084HST-2	E2.13
H200X122H1T-2	E2.11
H200X122H2T-2	E2.11
H200X165H1T	E2.10
H200X165H1T-2	E2.11
H200X165H2T-2	E2.11
H200X165HFT-2	E2.12
H200X165HGT-2	E2.12
H200X165HST-2	E2.13
H200X240H1T	E2.10
HB2SP19-X	B2.50
HB2SP25-X	B2.50
HBN1-T	B2.47
HBN2-T	B2.47
HBN3-T	B2.47
HBUA-X	B2.50
HC1.5LG6	C1.11, C1.12
HC2LG6	C1.11, C1.12
HC3LG6	C1.11, C1.12
HC4-3	D2.74
HC4LG6	C1.11, C1.12
HC8-3	D2.74
HC13-3	D2.74
HC21-1	D2.74
HC30-1	D2.74
HC50-1	D2.74
HCME04Y09-M30	B2.42
HCME06A12-M130	B2.42
HCME06X12-VM139	B2.42
HCME06Y12-M30	B2.42
HCMP06B12-M20	B2.41
HCMP06C12-M20	B2.41
HHL8-2N-X	D2.73
HHL13-2N-5	D2.73
HHL21-2N-5	D2.73
HHL30-2N-1	D2.73
HKBS	C3.15
HL1-2-25-X	D2.72, D2.73
HL1-25-X	D2.72
HL4-1-X	D2.72
HL4-2-X	D2.72, D2.73
HL8-1-X	D2.72
HL8-2-X	D2.72, D2.73
HL13-1-5	D2.72
HL13-2-5	D2.72, D2.73
HL21-1-5	D2.72
HL21-2-5	D2.72
HL30-1-2	D2.72
HL30-2-2	D2.72
HL50-1-2	D2.72
HL50-2-2	D2.72
HLB2S	B1.86
HLB2S-C0	B1.83
HLM-15R	B1.86
HLM-15R0	B1.83
HLS1.5S-X	B1.86
HLS1.5S-X0	B1.83
HLS3S-X	B1.86
HLS3S-X0	B1.83
HLS5S-X	B1.86
HLS5S-X0	B1.83
HLS-15R	B1.86
HLS-15R0	B1.83
HLS-75R	B1.86
HLS-75R0	B1.83
HLSP1.5S-X	B1.86
HLSP1.5S-X0	B1.84
HLSP1.5S-X12	B1.84
HLSP3S-X	B1.86
HLSP3S-X0	B1.84
HLSP3S-X12	B1.84
HLSP5S-X	B1.86
HLSP5S-X0	B1.84
HLSP5S-X12	B1.84
HLT2I-X	B1.86
HLT2I-X0	B1.83
HLT3I-X	B1.86
HLT3I-X0	B1.83
HLTP2I-X	B1.86
HLTP2I-X0	B1.84
HLTP2I-X12	B1.84
HLTP3I-X	B1.86
HLTP3I-X0	B1.84
HLTP3I-X12	B1.84
HLWM1.5S-X0	B1.87
HLWM3S-X0	B1.87
HN1.5X2LG6	C1.11
HN1.5X3LG6	C1.11
HN2X2LG6	C1.11
HN2X3LG6	C1.11
HN2X4LG6	C1.11
HN3X3LG6	C1.11
HN3X4LG6	C1.11
HN4X4LG6	C1.11

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
HS1.5X2LG6NM	C1.12
HS1.5X3LG6NM	C1.12
HS2X2LG6NM	C1.12
HS2X3LG6NM	C1.12
HS2X4LG6NM	C1.12
HS3X3LG6NM	C1.12
HS3X4LG6NM	C1.12
HS4X4LG6NM	C1.12
HSC.25-L	B2.38
HSC.25-L100	B2.38
HSEC0.5-X	C3.36
HSEC0.8-X	C3.36
HSEC1.0-X	C3.36
HSEC1.5-5	C3.36
HSEC2.0-5	C3.36
HSEC4.0-2	C3.36
HSECFR0.5-XY	C3.36
HSECFR0.8-XY	C3.36
HSECFR1.0-XY	C3.36
HSECFR1.5-5Y	C3.36
HSECFR2.0-5Y	C3.36
HSG-115V-650	C3.37, E2.13
HSG-A1	C3.37, E2.13
HSG-A2	C3.37, E2.13
HSG-P1	C3.37, E2.13
HSG-P2	C3.37, E2.13
HSG-P3	C3.37, E2.13
HSG-P7	C3.37, E2.13
HST0.4-3-QY	C3.35
HST0.4-6-X2Y	C3.35
HST0.4-6-XY	C3.35
HST0.4-48-5-2Y	C3.35
HST0.4-48-5Y	C3.35
HST0.8-6-XY	C3.35
HST0.8-9-X2Y	C3.35
HST0.8-12-5Y	C3.35
HST0.8-48-5-2Y	C3.35
HST0.8-48-5Y	C3.35
HST1.1-6-XY	C3.35
HST1.1-9-X2Y	C3.35
HST1.1-9-XY	C3.35
HST1.1-12-5Y	C3.35
HST1.1-48-5-2Y	C3.35
HST1.1-48-5Y	C3.35
HST1.5-9-XY	C3.35
HST1.5-12-5Y	C3.35
HST1.5-48-5-2Y	C3.35
HST1.5-48-5Y	C3.35
HST2.0-12-2Y	C3.35
HST2.0-48-2Y	C3.35
HST2.7-48-2Y	C3.35
HST3.0-48-2	C3.35
HST3.5-48-2Y	C3.35
HSTT4A15-48-Q	C3.34
HSTT4A31-48-Q	C3.34
HSTT4A47-48-Q	C3.34
HSTT4A62-48-5	C3.34
HSTT4A94-48-5	C3.34
HSTT4A125-48-5	C3.34
HSTT4A200-48-5	C3.34
HSTT05-48-Q	C3.21
HSTT05-48-TL	C3.21
HSTT05-C	C3.21
HSTT05-M	C3.21
HSTT05-Q	C3.22
HSTT06-48-Q	C3.21
HSTT06-C	C3.21
HSTT06-M	C3.21
HSTT06-Q	C3.22
HSTT06-Y	C3.23
HSTT06-YK1	C3.23
HSTT09-48-Q	C3.21
HSTT09-C	C3.21
HSTT09-M	C3.21
HSTT09-Q	C3.22
HSTT09-Y	C3.23
HSTT09-YK1	C3.23
HSTT12-48-Q	C3.21
HSTT12-C	C3.21
HSTT12-M	C3.21
HSTT12-Q	C3.22
HSTT12-Y	C3.23
HSTT12-YK1	C3.23
HSTT19-48-Q	C3.21
HSTT19-C	C3.21
HSTT19-M	C3.21
HSTT19-Q	C3.22
HSTT19-Y	C3.23
HSTT19-YK1	C3.23
HSTT25-48-Q	C3.21
HSTT25-C	C3.21
HSTT25-D	C3.21
HSTT25-Q	C3.22
HSTT25-Y	C3.23
HSTT25-YK1	C3.23
HSTT38-48-Q	C3.21
HSTT38-C	C3.21
HSTT38-Q	C3.22
HSTT38-T	C3.21
HSTT38-Y	C3.23
HSTT38-YK1	C3.23
HSTT50-48-5	C3.22
HSTT50-48-Q	C3.22
HSTT50-C	C3.22
HSTT50-Q	C3.22
HSTT50-T	C3.22
HSTT50-Y	C3.23
HSTT50-YK1	C3.23
HSTT75-48-5	C3.22, C3.38
HSTT75-C	C3.22
HSTT75-Q	C3.22
HSTT75-T	C3.22
HSTT75-Y	C3.23
HSTT75-YK1	C3.23
HSTT100-48-5	C3.22, C3.38
HSTT100-C	C3.22
HSTT100-Y	C3.23
HSTT100-YK1	C3.23
HSTT150-48-5	C3.22
HSTT150-C	C3.22
HSTT200-48-5	C3.22
HSTT200-L	C3.22
HSTT300-48-2	C3.22
HSTT300-L	C3.22
HSTT400-48-2	C3.22
HSTT400-L	C3.22
HSTTA19-48-Q	C3.33
HSTTA19-Y	C3.33
HSTTA25-48-Q	C3.33
HSTTA25-48-TL	C3.33
HSTTA25-Y	C3.33
HSTTA38-48-Q	C3.33
HSTTA38-48-TL	C3.33
HSTTA38-Y	C3.33
HSTTA50-48-5	C3.33
HSTTA50-48-T	C3.33
HSTTA50-Y	C3.33
HSTTA75-48-5	C3.33
HSTTA75-48-C	C3.33
HSTTA75-Y	C3.33
HSTTA100-48-5	C3.33
HSTTA100-48-L	C3.33
HSTTA100-Y	C3.33
HSTTA150-48-5	C3.33
HSTTA150-48-Q	C3.33
HSTTA150-Y	C3.33
HSTTK05-48-Q	C3.32
HSTTK06-48-Q	C3.32
HSTTK09-48-Q	C3.32
HSTTK12-48-Q	C3.32
HSTTK19-48-Q	C3.32
HSTTK25-48-Q	C3.32
HSTTK38-48-Q	C3.32
HSTTK50-48-5	C3.32
HSTTK75-48-5	C3.32
HSTTK100-48-5	C3.32
HSTTP05-MY	C3.29
HSTTP06-CY	C3.29
HSTTP06-QY	C3.29
HSTTP09-CY	C3.29
HSTTP09-MY	C3.29
HSTTP09-QY	C3.29
HSTTP12-CY	C3.29
HSTTP12-QY	C3.29
HSTTP19-CY	C3.29
HSTTP19-QY	C3.29
HSTTP25-CY	C3.29
HSTTP25-QY	C3.29
HSTTP38-CY	C3.29
HSTTP38-QY	C3.29
HSTTP50-CY	C3.29
HSTTP50-QY	C3.29
HSTTP75-CY	C3.29
HSTTP75-QY	C3.29
HSTTP100-CY	C3.29
HSTTP100-QY	C3.29
HSTTP150-CY	C3.29
HSTTP150-QY	C3.29
HSTTP200-QY	C3.29
HSTTPN50-438-L	C3.30
HSTTPN50-713-Q	C3.30
HSTTPN50-CC	C3.30
HSTTPN62-750-Q	C3.30
HSTTPN62-CC	C3.30
HSTTPN75-775-Q	C3.30
HSTTPN75-CC	C3.30

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
HSTTPN100-775-Q	C3.30
HSTTPN100-CC	C3.30
HSTTPN150-925-X	C3.30
HSTTPN150-CC	C3.30
HSTTPN200-950-X	C3.30
HSTTPN200-CC	C3.30
HSTTRA12-48-Q	C3.34
HSTTRA19-48-Q	C3.34
HSTTRA25-48-Q	C3.34
HSTTRA38-48-Q	C3.34
HSTTRA50-48-5	C3.34
HSTTRA75-48-5	C3.34
HSTTRA100-48-5	C3.34
HSTTT03-48-Q	C3.31
HSTTT04-48-Q	C3.31
HSTTT05-48-Q	C3.31
HSTTT06-48-Q	C3.31
HSTTT08-48-Q	C3.31
HSTTT09-48-Q	C3.31
HSTTT12-48-Q	C3.31
HSTTT15-48-Q	C3.31
HSTTT19-48-Q	C3.31
HSTTT24-48-Q	C3.31
HSTTT30-48-Q	C3.31
HSTTT37-48-Q	C3.31
HSTTT43-48-Q	C3.31
HSTTT046-48-Q	C3.31
HSTTT47-48-Q	C3.31
HSTTT055-48-Q	C3.31
HSTTT56-48-5	C3.31
HSTTT66-48-5	C3.31
HSTTT75-48-5	C3.31
HSTTT93-48-5	C3.31
HSTTT112-48-5	C3.31
HSTTT131-48-2	C3.31
HSTTT150-48-2	C3.31
HSTTV05-48-Q	C3.25
HSTTV05-C	C3.26
HSTTV05-M	C3.27
HSTTV05-Y	C3.28
HSTTV06-48-Q	C3.25
HSTTV06-C	C3.26
HSTTV06-M	C3.27
HSTTV06-Y	C3.28
HSTTV09-48-Q	C3.25
HSTTV09-C	C3.26
HSTTV09-M	C3.27
HSTTV09-Y	C3.28
HSTTV12-48-Q	C3.25
HSTTV12-C	C3.26
HSTTV12-M	C3.27
HSTTV12-Q	C3.28
HSTTV12-Y	C3.28
HSTTV19-48-Q	C3.25
HSTTV19-C	C3.26
HSTTV19-M	C3.27
HSTTV19-Q	C3.28
HSTTV19-Y	C3.28
HSTTV25-48-Q	C3.25
HSTTV25-C	C3.26
HSTTV25-D	C3.27
HSTTV25-D5	C3.27
HSTTV25-D10	C3.27
HSTTV25-Y	C3.28
HSTTV38-48-Q	C3.25
HSTTV38-C	C3.26
HSTTV38-T	C3.27
HSTTV38-T5	C3.27
HSTTV38-Y	C3.28
HSTTV50-48-Q	C3.25
HSTTV50-C	C3.26
HSTTV50-Q	C3.28
HSTTV50-T	C3.27
HSTTV50-T5	C3.27
HSTTV50-Y	C3.28
HSTTV75-48-5	C3.25
HSTTV75-C	C3.26
HSTTV75-T	C3.27
HSTTV75-T10	C3.27
HSTTV75-Y	C3.28
HSTTV100-48-5	C3.25
HSTTV100-C	C3.26
HSTTV100-Y	C3.28
HSTTV150-48-5	C3.25
HSTTV150-C	C3.26
HSTTVA12-48-Q	C3.32
HSTTVA12-Y	C3.33
HSTTVA19-48-Q	C3.32
HSTTVA19-Y	C3.33
HSTTVA25-48-Q	C3.32
HSTTVA25-Y	C3.33
HSTTVA38-48-Q	C3.32
HSTTVA38-Y	C3.33
HSTTVA50-48-5	C3.32
HSTTVA50-Y	C3.33
HSTTVA75-48-5	C3.32
HSTTVA75-Y	C3.33
HSTTVA100-48-5	C3.32
HSTTVA100-Y	C3.33
HSTTVA150-48-5	C3.32
HSTT-YK1	C3.24
HSTT-YK1-45	C3.24
HSTT-YK2	C3.24
HSTT-YK2-45	C3.24
HTCT2-2-1	D3.15
HTCT6X-6X-1	D3.15
HTCT250-2-1	D3.15
HTCT250-250-1	D3.15
HTDU3O-FO	E5.91
HTDU3O-T	E5.91
HTDU3R-E	E5.91
HTDU6O-FO	E5.91
HTDU6O-T	E5.91
HTDU6R-E	E5.91
HTMLT2.7WEH-LP	B3.9
HTMLT4WEH-LP	B3.9
HTMLT6WEH-LP	B3.9
HTMLT8WEH-LP	B3.9
HTMLT10WEH-LP	B3.9
HTMLT12WEH-Q	B3.9
HTMLT16WEH-Q	B3.9
HTMLT26WEH-Q	B3.9
HTMLT38WEH-Q	B3.9
HTU3G-T-M	E5.91
HTU3O-FO-M	E5.91
HTU3O-T-M	E5.91
HTU3R-E-M	E5.91
HTU3Y-E-M	E5.91
HTU6O-FO	E5.91
HTU6O-T	E5.91
HTU6O-TV	E5.91
HTU6R-E	E5.91
HTU6Y-E	E5.91
HTU6Y-G	E5.91
HTWC2-2-1	D3.16
HTWC6X-6X-1	D3.16
HTWC250-2-1	D3.16
HTWC250-250-1	D3.16
HV965-C	B1.62
HV965-C0	B1.60
HV9100-C	B1.62
HV9100-C0	B1.60
HV9150-C	B1.62
HV9150-C0	B1.60
HV9250-C	B1.62
HV9250-C0	B1.60
HVMPM-08-C0	B1.60, B2.19
HVTM-06-C0	B1.60, B2.9
HWS2819-C	B2.40
I4JPBJLUXX	G1.6
I4KOTJLUXX	G1.6
IAEBH5E	G1.4
IAEBH5ES	G1.4
IAEBH6	G1.4
IAEBH6S	G1.4
IAEBH6X	G1.4
IAEBH6XS	G1.4
IAEBHC5E	G1.4
IAEBHC6	G1.4
IAEBHUSBAA	G1.4
IAEBHV56XS	G1.4
IAEF7JMA	G1.7
IAEF617P-7PM1	G1.7
IAEF617P-NM1	G1.7
IAEFP1	G1.8
IAEFP2-2G	G1.8
IAPNG5EWH	G1.10
ICAM12DRJS	G1.4
ICAM12X90RJS	G1.4
ICAM12XRJS	G1.4
ICD11T1NTL*M	G1.5
ICD11T2NTL*M	G1.5
ICD14T1NTL*M	G1.5
ICD15T2NTL*M	G1.5
ICD22T1NTL*M	G1.5
ICD25T2NTL*M	G1.5
ICD35T2NTL*M	G1.5
ICD44T1NTL*M	G1.5
ICD45T1NTL0.5M	G1.5
ICF3IW-E	C2.6
ICF5IW-E	C2.6
ICF10IW-X	C2.6
ICFC3IW-X	C2.6
ICFC5IW-X	C2.6
ICFC10IW-X	C2.6
ICFX3IW-X	C2.7

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Part Number Index

Part Number	Page Number
ICFX5IW-X	C2.7
ICFX10IW-X	C2.7, C2.8
ICX11T1NTL*M	G1.5
ICX15T1NTL*M	G1.5
ICX44T1NTL*M	G1.5
ICX45T1NTL0.5M	G1.5
IFRH5C04BL-UG	G1.2
IFRH6C04BL-UG	G1.2
ILT2S-C	B1.59, B1.62
ILT2S-C0	B1.59
ILT2S-M	B1.62
ILT3S-C	B1.59, B1.62
ILT3S-C0	B1.59
ILT3S-M	B1.62
ILT4LH-TL	B1.59, B1.62
ILT4LH-TL0	B1.59
ILT4S-C	B1.59, B1.62
ILT4S-C0	B1.59
ILT4S-M	B1.62
ILT6LH-C	B1.59, B1.62
ILT6LH-C0	B1.59
ISFCH5C02ATL-XG	G1.2
ISFCH5C04ATL-XG	G1.2
ISFCH6X04ATL-UG	G1.2
ISFCH6X04BTL-UG	G1.2
ISFX5502ATL-LED	G1.2
ISPS5E44MFA	G1.4
ISPS6A88MFA	G1.4
ISPS688FA	G1.4
ISPS688FAS	G1.4
ISPTH6X1MTL	G1.3
ISTPCH1MBLY	G1.3
ISTPHCH1MTL	G1.3
ISTPSP1MBL	G1.3
ISX6004AYL-LED	G1.2
IT940-C	B1.62
IT940-C0	B1.61
IT965-C	B1.62
IT965-C0	B1.61
IT9100-C	B1.62
IT9100-C0	B1.61
IT9100-CUV2	B1.61
IT9100-CUV4Y	B1.61
IT9100-CUV6	B1.61
IT9100-CUV6A	B1.61
IT9100-CUV7A	B1.61
IT9100-CUV8	B1.61
IT9100-CUV16B	B1.61
IT9115-C	B1.62
IT9115-C0	B1.61
IT9115-CUV2	B1.61
IT9115-CUV2A	B1.61
IT9115-CUV3	B1.61
IT9115-CUV4A	B1.61
IT9115-CUV4Y	B1.61
IT9115-CUV5A	B1.61
IT9115-CUV5B	B1.61
IT9115-CUV6	B1.61
IT9115-CUV6A	B1.61
IT9115-CUV6B	B1.61
IT9115-CUV7A	B1.61
IT9115-CUV8	B1.61
IT9115-CUV8A	B1.61
IT9115-CUV11	B1.61
IT9115-CUV16B	B1.61
IT9115-CUV18	B1.61
IUC6C04ABL-CEG	G1.2
IUTPCH3BLY	G1.3
IUTPSP3BL	G1.3
J214-312-T	D1.54
J216-410-L	D1.54
J318-412-T	D1.54
JMCB-X	C4.5
JMCMB25-1-X	C4.5
JMCMB25-3-X	C4.5
JMDWB-1-X	C4.5
JMDWB-3-X	C4.5
JMJH2	C4.6
JMJH2W	C4.6
JMJH2W-X20	C4.5
JMJH2-X20	C4.5
JMSBCB87-1-X	C4.6
JMSBCB87-3-X	C4.6
JMTRB38-1-X	C4.5
JMTRB38-3-X	C4.5
JN218-216-C	D1.53
JN224-318-C	D1.53
JN314-412-C	D1.53
JN418-212-C	D1.53
JP2CMB	C4.4
JP2CMB-L20	C4.2
JP2CP	C4.4
JP2CP-L20	C4.3
JP2DW	C4.4
JP2DW-L20	C4.2
JP2HBC25RB	C4.4
JP2HBC25RB-L20	C4.3
JP2HBC50RB	C4.4
JP2HBC50RB-L20	C4.3
JP2HBC75RB	C4.4
JP2HBC75RB-L20	C4.3
JP2SBC50	C4.4
JP2SBC50-L20	C4.2
JP2SBC50RB	C4.4
JP2SBC50RB-L20	C4.2
JP2SBC87	C4.4
JP2SBC87-L20	C4.3
JP2SBC87RB	C4.4
JP2SBC87RB-L20	C4.3
JP2UF100	C4.4
JP2UF100-L20	C4.3
JP2W	C4.4
JP2W-L20	C4.2
JP2WP2B	C4.4
JP2WP2B-L20	C4.2
JP2ZP	C4.4
JP2ZP-L20	C4.3
JP4CMB	C4.4
JP4CMB-X20	C4.2
JP4CP	C4.4
JP4CP-X20	C4.3
JP4DW-L20	C4.2
JP4HBC25RB	C4.4
JP4HBC50RB	C4.4
JP4HBC50RB-X20	C4.3
JP4HBC75RB	C4.4
JP4HBC75RB-X20	C4.3
JP4SBC50	C4.4
JP4SBC50RB	C4.4
JP4SBC50RB-X20	C4.2, C4.3
JP4SBC50-X20	C4.2
JP4SBC87	C4.4
JP4SBC87RB	C4.4
JP4SBC87RB-X20	C4.3
JP4SBC87-X20	C4.3
JP4UF100	C4.4
JP4UF100-X20	C4.3
JP4W	C4.4
JP4WP2B	C4.4
JP4WP2B-X20	C4.2
JP4W-X20	C4.2
JP4ZP	C4.4
JP4ZP-X20	C4.3
JP75CMB	C4.4
JP75CMB-L20	C4.2
JP75CP	C4.4
JP75CP-L20	C4.3
JP75DW	C4.4
JP75DW-L20	C4.2
JP75HBC25RB	C4.4
JP75HBC25RB-L20	C4.3
JP75HBC50RB	C4.4
JP75HBC50RB-L20	C4.3
JP75HBC75RB	C4.4
JP75HBC75RB-L20	C4.3
JP75SBC50	C4.4
JP75SBC50-L20	C4.2
JP75SBC50RB	C4.4
JP75SBC50RB-L20	C4.2
JP75SBC87	C4.4
JP75SBC87-L20	C4.3
JP75SBC87RB	C4.4
JP75SBC87RB-L20	C4.3
JP75UF100	C4.4
JP75UF100-L20	C4.3
JP75W	C4.4
JP75W-L20	C4.2
JP75WP2B	C4.4
JP75WP2B-L20	C4.2
JP75ZP	C4.4
JP75ZP-L20	C4.3
JP131CMB	C4.4
JP131CMB-L20	C4.2
JP131CP	C4.4
JP131CP-L20	C4.3
JP131DW	C4.4
JP131DW-L20	C4.2
JP131HBC25RB	C4.4
JP131HBC25RBL20	C4.3
JP131HBC50RB	C4.4
JP131HBC50RBL20	C4.3
JP131HBC75RB	C4.4
JP131HBC75RBL20	C4.3
JP131SBC50	C4.4
JP131SBC50-L20	C4.2
JP131SBC50RB	C4.4

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
JP131SBC50RBL20	C4.2
JP131SBC87	C4.4
JP131SBC87-L20	C4.3
JP131SBC87RB	C4.4
JP131SBC87RBL20	C4.3
JP131UF100	C4.4
JP131UF100-L20	C4.3
JP131W	C4.4
JP131W-L20	C4.2
JP131WP2B	C4.4
JP131WP2B-L20	C4.2
JP131ZP	C4.4
JP131ZP-L20	C4.3
K1-PNKIT	D1.30
K2-PVKITY	D1.30
K-205	B1.79, D1.30
K-504	B1.79
K-1000	D1.29
K-1001	D1.29
K-1100	D1.29
K-1102Y	D1.29
K-1103Y	D1.29
K-1104	D1.29
KB-550	B1.80
KB-551	B1.80
KIMS-H366-C2	B2.12
KIMS-H430-C6	B2.12
KIMS-H500-C4	B2.12
KLM6-250Y	D2.87
KLM6-600Y	D2.87
KLM14-250Y	D2.87
KP-506A	B1.80
KP-506A-0	B1.80
KP-509	B1.80
KP-1000	D1.29
KP-1075Y	D1.29
KP-1165Y	D1.29
KP-1166	D1.29
KP-F1	D1.64
KP-F2	D1.64
KP-FSD1	D1.64
KP-FSD2	D1.64
KP-FSD3	D1.64
KP-HSTT1	C3.37
KP-HSTT2	C3.37
KP-HSTTA	C3.37
KWP3Y	F.5
KWPY	F.5
LAA1/0-12-5	D2.60
LAA1/0-38-5	D2.60
LAA1/0-56-5	D2.60
LAA1-14-X	D2.60
LAA1-38-X	D2.60
LAA1-56-X	D2.60
LAA2/0-12-5	D2.60
LAA2/0-38-5	D2.60
LAA2-14-X	D2.60
LAA2-38-X	D2.60
LAA2-56-X	D2.60
LAA3/0-12-5	D2.60
LAA3/0-38-5	D2.60
LAA4/0-12-5	D2.60
LAA4/0-38-5	D2.60
LAA4-14-X	D2.60
LAA4-38-X	D2.60
LAA4-56-X	D2.60
LAA6-14-X	D2.60
LAA6-56-X	D2.60
LAA250-12-5	D2.60
LAA250-38-5	D2.60
LAA300-12-2	D2.60
LAA300-38-2	D2.60
LAA350-12-2	D2.60
LAA400-58-2R	D2.60
LAA500-12-2	D2.61
LAA500-58-2	D2.61
LAA750-12-1	D2.61
LAA750-58-1	D2.61
LAA900-58-1	D2.61
LAA1000-58-1	D2.61
LAB1/0-12-X	D2.61
LAB1/0-38-X	D2.61
LAB2/0-12-5	D2.61
LAB3/0-12-5	D2.61
LAB4/0-12-5R	D2.61
LAB250-12-5	D2.61
LAB300-12-2	D2.61
LAB350-12-2R	D2.61
LAB400-12-2	D2.61
LAB500-12-2R	D2.61
LAB600-12-2	D2.61
LAB750-12-1R	D2.61
LAB800-12-1	D2.61
LAB900-12-1	D2.61
LAB1000-12-1	D2.61
LAM2A1/0-14-6Y	D2.83
LAM2A2/0-14-6Y	D2.83
LAM2A250-38-6Y	D2.83
LAM2A350-12-6Y	D2.83
LAM2A600-12-6Y	D2.83
LAM2A1000-58-6Y	D2.83
LAM2B350-12-3Y	D2.84
LAM2LB600-12-3	D2.84
LAM2LB1000-12-3	D2.84
LAM2SA300-38-3	D2.84
LAM2SA300-56-3	D2.84
LAM2SB600-38-1Y	D2.85
LAM2SB750-38-1Y	D2.85
LAM2SSB500-141Y	D2.85
LAM3B1/0-38-6Y	D2.85
LAM3B2-14-6Y	D2.85
LAM3B3/0-12-3Y	D2.85
LAM3B250-12-1Y	D2.85
LAM3B350-12-1Y	D2.85
LAM3D3/0-12-3Y	D2.86
LAM3D250-12-1Y	D2.86
LAM3D350-12-1Y	D2.86
LAM3LB600-12-1	D2.85
LAM3LB1000-121Y	D2.85
LAM3LD600-12-1	D2.86
LAM3LD1000-121Y	D2.86
LAM4D250-12-1Y	D2.87
LAM4D350-12-1Y	D2.87
LAM4LD600-12-1	D2.87
LAM4LD1000-12-1	D2.87
LAM4SB600-38-1Y	D2.86
LAM4SB750-38-1Y	D2.86
LAMA1/0-14-QY	D2.82
LAMA1/0-56-Q	D2.82
LAMA2/0-14-QY	D2.82
LAMA2-14-QY	D2.82
LAMA6-14-QY	D2.82
LAMA250-56-QY	D2.82
LAMA300-56-QY	D2.82
LAMA350-38-QY	D2.82
LAMA500-38-6Y	D2.82
LAMA600-38-6Y	D2.82
LAMA600S-38-6Y	D2.82
LAMA1000-58-6Y	D2.82
LAMB350-12-6Y	D2.83
LAMB600-12-3Y	D2.83
LAMLB1000-12-3	D2.83
LC3-A-C8	B2.34
LC5-A-C8	B2.34
LC10-A-L8	B2.34
LCA1/0-12-X	D2.10
LCA1/0-14-X	D2.10
LCA1/0-38-X	D2.10
LCA1/0-56-X	D2.10
LCA1-12-E	D2.9
LCA1-14-E	D2.9
LCA1-38-E	D2.9
LCA1-56-E	D2.9
LCA2/0-12-X	D2.10
LCA2/0-14-X	D2.10
LCA2/0-38-X	D2.10
LCA2/0-56-X	D2.10
LCA2-12-Q	D2.9
LCA2-14-Q	D2.9
LCA2-38-Q	D2.9
LCA2-56-Q	D2.9
LCA3/0-12-X	D2.10
LCA3/0-14-X	D2.10
LCA3/0-38-X	D2.10
LCA3/0-56-X	D2.10
LCA4/0-12-X	D2.10
LCA4/0-14-X	D2.10
LCA4/0-38-X	D2.10
LCA4/0-56-X	D2.10
LCA4-10-L	D2.9
LCA4-12-L	D2.9
LCA4-14-L	D2.9
LCA4-38-L	D2.9
LCA4-56-L	D2.9
LCA6-10-L	D2.9
LCA6-12-L	D2.9
LCA6-14-L	D2.9
LCA6-38-L	D2.9
LCA6-56-L	D2.9
LCA8-10-L	D2.9
LCA8-14-L	D2.9
LCA8-38-L	D2.9
LCA8-56-L	D2.9
LCA10-10-L	D2.9
LCA10-14-L	D2.9
LCA10-38-L	D2.9

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Part Number Index

Part Number	Page Number
LCA10-56-L	D2.9
LCA250-12-X	D2.10
LCA250-14-X	D2.10
LCA250-38-X	D2.10
LCA250-56-X	D2.10
LCA300-12-X	D2.10
LCA300-38-X	D2.10
LCA300-56-X	D2.10
LCA300-58-X	D2.10
LCA300-78-X	D2.10
LCA350-12-X	D2.10
LCA350-38-X	D2.10
LCA350-58-X	D2.10
LCA350-78-X	D2.10
LCA400-12-6	D2.10
LCA400-38-6	D2.10
LCA400-58-6	D2.10
LCA400-78-6	D2.10
LCA500-1-6	D2.10
LCA500-12-6	D2.10
LCA500-34-6	D2.10
LCA500-38-6	D2.10
LCA500-58-6	D2.10
LCA500-78-6	D2.10
LCA600-12-6	D2.10
LCA600-58-6	D2.10
LCA600-78-6	D2.10
LCA750-38-6	D2.10
LCA750-58-6	D2.10
LCAN1/0-10-X	D2.11
LCAN1/0-14-X	D2.11
LCAN1/0-56-X	D2.11
LCAN1-10-E	D2.11
LCAN1-14-E	D2.11
LCAN2/0-10-X	D2.11
LCAN2/0-14-X	D2.11
LCAN2/0-38-X	D2.11
LCAN2/0-56-X	D2.11
LCAN2-10-Q	D2.11
LCAN2-14-Q	D2.11
LCAN3/0-14-X	D2.11
LCAN3/0-38-X	D2.11
LCAN3/0-56-X	D2.11
LCAN4/0-14-X	D2.11
LCAN4/0-38-X	D2.11
LCAN4/0-56-X	D2.11
LCAN4-10-L	D2.11
LCAN4-14-L	D2.11
LCAN6-6-L	D2.11
LCAN8-6-L	D2.11
LCAN250-14-X	D2.12
LCAN250-38-X	D2.12
LCAN300-14-X	D2.12
LCAN300-38-X	D2.12
LCAN350-12-X	D2.12
LCAN350-38-X	D2.12
LCAN400-12-6	D2.12
LCAN400-38-6	D2.12
LCAN500-12-6	D2.12
LCAN500-38-6	D2.12
LCAN600-12-6	D2.12
LCAN600-38-6	D2.12
LCAN750-12-6	D2.12
LCAN750-38-6	D2.12
LCAN750-58-6	D2.12
LCAX1/0-12-X	D2.30
LCAX1/0-14-X	D2.30
LCAX1/0-38-X	D2.30
LCAX1/0-56-X	D2.30
LCAX1/0-58-X	D2.30
LCAX1-10-X	D2.30
LCAX1-12-X	D2.30
LCAX1-14-X	D2.30
LCAX1-38-X	D2.30
LCAX1-56-X	D2.30
LCAX2/0-10-X	D2.31
LCAX2/0-12-X	D2.31
LCAX2/0-14-X	D2.31
LCAX2/0-38-X	D2.31
LCAX2/0-56-X	D2.31
LCAX2/0-58-X	D2.31
LCAX2-10-E	D2.30
LCAX2-12-E	D2.30
LCAX2-14-E	D2.30
LCAX2-38-E	D2.30
LCAX2-56-E	D2.30
LCAX3/0-10-X	D2.31
LCAX3/0-12-X	D2.31
LCAX3/0-14-X	D2.31
LCAX3/0-38-X	D2.31
LCAX3/0-56-X	D2.31
LCAX3/0-58-X	D2.31
LCAX4/0-12-X	D2.31
LCAX4/0-14-X	D2.31
LCAX4/0-34-X	D2.31
LCAX4/0-38-X	D2.31
LCAX4/0-56-X	D2.31
LCAX4/0-58-X	D2.31
LCAX4-10-L	D2.30
LCAX4-14-L	D2.30
LCAX4-38-L	D2.30
LCAX4-56-L	D2.30
LCAX6-10-L	D2.30
LCAX6-14-L	D2.30
LCAX6-38-L	D2.30
LCAX6-56-L	D2.30
LCAX8-10-L	D2.30
LCAX8-14-L	D2.30
LCAX8-38-L	D2.30
LCAX8-56-L	D2.30
LCAX250-12-X	D2.31
LCAX250-14-X	D2.31
LCAX250-34-X	D2.31
LCAX250-38-X	D2.31
LCAX250-56-X	D2.31
LCAX250-58-X	D2.31
LCAX300-12-6	D2.31
LCAX300-38-6	D2.31
LCAX300-58-6	D2.31
LCAX350-12-6	D2.31
LCAX350-38-6	D2.31
LCAX350-56-6	D2.31
LCAX350-58-6	D2.31
LCAX450-12-6	D2.31
LCAX450-58-6	D2.31
LCAX500-12-6	D2.31
LCAX500-38-6	D2.31
LCAX500-56-6	D2.31
LCAX500-58-6	D2.31
LCAX650-12-6	D2.31
LCAX650-38-6	D2.31
LCAX650-56-6	D2.31
LCAX650-58-6	D2.31
LCAX750-12-3	D2.31
LCAX750-58-3	D2.31
LCAXN1/0-12-X	D2.32
LCAXN1/0-14-X	D2.32
LCAXN1/0-38-X	D2.32
LCAXN1/0-56-X	D2.32
LCAXN2/0-12-X	D2.32
LCAXN2/0-14-X	D2.32
LCAXN2/0-38-X	D2.32
LCAXN2/0-56-X	D2.32
LCAXN3/0-12-X	D2.32
LCAXN3/0-14-X	D2.32
LCAXN3/0-38-X	D2.32
LCAXN3/0-56-X	D2.32
LCAXN4/0-12-X	D2.32
LCAXN4/0-14-X	D2.32
LCAXN4/0-38-X	D2.32
LCAXN4/0-56-X	D2.32
LCAXN250-12-X	D2.32
LCAXN250-38-X	D2.32
LCAXN250-56-X	D2.32
LCAXN300-12-6	D2.32
LCAXN350-12-6	D2.32
LCAXN350-38-6	D2.32
LCAXN350-56-6	D2.32
LCAXN450-12-6	D2.32
LCAXN500-12-6	D2.32
LCAXN500-38-6	D2.32
LCAXN750-12-3	D2.32
LCB1/0-10-X	D2.13
LCB1/0-12W-X	D2.14
LCB1/0-12-X	D2.13
LCB1/0-38W-X	D2.14
LCB1/0-38-X	D2.13
LCB1/0-56W-X	D2.14
LCB1/0-56-X	D2.13
LCB1-10-E	D2.13
LCB1-12-E	D2.13
LCB1-12W-E	D2.14
LCB1-38-E	D2.13
LCB1-56-E	D2.13
LCB2/0-12W-X	D2.14
LCB2/0-12-X	D2.13
LCB2/0-38W-X	D2.14
LCB2/0-38-X	D2.13
LCB2-10-Q	D2.13
LCB2-12-Q	D2.13
LCB2-12W-Q	D2.14
LCB2-14-Q	D2.13
LCB2-14W-Q	D2.14
LCB2-38-Q	D2.13
LCB2-38W-Q	D2.14
LCB2-56-Q	D2.13

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
LCB3/0-12-X	D2.13
LCB3/0-38-X	D2.13
LCB4/0-12W-X	D2.14
LCB4/0-12-X	D2.13
LCB4/0-14W-X	D2.14
LCB4/0-38W-X	D2.14
LCB4/0-38-X	D2.13
LCB4-10-L	D2.13
LCB4-12-L	D2.13
LCB4-12W-L	D2.14
LCB4-14-L	D2.13
LCB4-38-L	D2.13
LCB4-56-L	D2.13
LCB6-10-L	D2.12
LCB6-12-L	D2.12
LCB6-12W-L	D2.14
LCB6-14-L	D2.12
LCB6-38-L	D2.12
LCB8-10-L	D2.12
LCB8-14-L	D2.12
LCB8-38-L	D2.12
LCB10-14W-L	D2.14
LCB250-12W-X	D2.14
LCB250-12-X	D2.13
LCB250-78-X	D2.13
LCB300-12-X	D2.13
LCB300-38-X	D2.13
LCB300-56-X	D2.13
LCB350-12W-X	D2.14
LCB350-12-X	D2.13
LCB350-78-X	D2.13
LCB400-12-6	D2.13
LCB400-38-6	D2.13
LCB400-58-6	D2.13
LCB400-78-6	D2.13
LCB500-12-6	D2.13
LCB500-58-6	D2.13
LCB500-78-6	D2.13
LCB600-12-6	D2.13
LCB600-58-6	D2.13
LCB750-12W-6	D2.14
LCB750-38W-6	D2.14
LCB750-58-6	D2.13
LCB750-58W-6	D2.14
LCB750-78-6	D2.13
LCB750-78W-6	D2.14
LCB800-12W-6	D2.14
LCB800-58-6	D2.13
LCB800-58W-6	D2.14
LCB1000-12W-3	D2.14
LCB1000-38W-3	D2.14
LCB1000-58-3	D2.13
LCB1000-58W-3	D2.14
LCBX1/0-12-X	D2.33
LCBX1/0-14-X	D2.33
LCBX1/0-38-X	D2.33
LCBX1-14-X	D2.33
LCBX1-38-X	D2.33
LCBX1-56-X	D2.33
LCBX2/0-12-X	D2.33
LCBX2/0-14-X	D2.33
LCBX2/0-38-X	D2.33

Part Number	Page Number
LCBX2-12-E	D2.33
LCBX2-14-E	D2.33
LCBX2-38-E	D2.33
LCBX3/0-38-X	D2.33
LCBX4/0-12-X	D2.33
LCBX4/0-38-X	D2.33
LCBX4-14-L	D2.33
LCBX4-38-L	D2.33
LCBX6-14-L	D2.33
LCBX6-38-L	D2.33
LCBX8-10-L	D2.33
LCBX8-14-L	D2.33
LCBX8-38-L	D2.33
LCBX250-12-X	D2.34
LCBX250-38-X	D2.34
LCBX250-58-X	D2.34
LCBX300-38-6	D2.34
LCBX350-12-6	D2.34
LCBX350-38-6	D2.34
LCBX450-38-6	D2.34
LCBX500-12-6	D2.34
LCBX500-38-6	D2.34
LCC1/0-12-B-X	D3.13
LCC1/0-12DW-X	D2.23
LCC1/0-12D-X	D2.20
LCC1/0-12W-X	D2.23
LCC1/0-12-X	D2.20
LCC1/0-14AW-X	D2.23
LCC1/0-14A-X	D2.20
LCC1/0-14BW-X	D2.23
LCC1/0-14B-X	D2.20
LCC1/0-14DW-X	D2.23
LCC1/0-38DW-X	D2.23
LCC1/0-38D-X	D2.20
LCC1/0-38W-X	D2.23
LCC1/0-56C-X	D2.20
LCC1/0-56D-X	D2.20
LCC1-12-E	D2.20
LCC1-12W-E	D2.23
LCC1-14A-E	D2.19
LCC1-14AW-E	D2.23
LCC1-14B-E	D2.19
LCC1-14BW-E	D2.23
LCC1-38D-E	D2.20
LCC1-38DW-E	D2.23
LCC1-56B-E	D2.20
LCC1-56BW-E	D2.23
LCC1-56C-E	D2.20
LCC1-56CW-E	D2.23
LCC2/0-12-B-X	D3.13
LCC2/0-12DW-X	D2.23
LCC2/0-12D-X	D2.20
LCC2/0-12W-X	D2.23
LCC2/0-12-X	D2.20
LCC2/0-14AW-X	D2.23
LCC2/0-14A-X	D2.20
LCC2/0-14BW-X	D2.23
LCC2/0-14B-X	D2.20
LCC2/0-38DW-X	D2.23
LCC2/0-38D-X	D2.20
LCC2/0-56DW-X	D2.23
LCC2/0-56D-X	D2.20

Part Number	Page Number
LCC2-10AW-Q	D2.22
LCC2-10BW-Q	D2.22
LCC2-12-B-Q	D3.13
LCC2-12-Q	D2.19
LCC2-12W-Q	D2.23
LCC2-14A-Q	D2.19
LCC2-14AW-Q	D2.22
LCC2-14B-Q	D2.19
LCC2-14BW-Q	D2.22
LCC2-14DW-Q	D2.22
LCC2-38BW-Q	D2.23
LCC2-38CW-Q	D2.23
LCC2-38D-Q	D2.19
LCC2-38DW-Q	D2.23
LCC2-38-Q	D2.19
LCC2-38W-Q	D2.23
LCC2-56B-Q	D2.19
LCC2-56BW-Q	D2.23
LCC2-56C-Q	D2.19
LCC2-56CW-Q	D2.23
LCC3/0-12DW-X	D2.23
LCC3/0-12D-X	D2.20
LCC3/0-12W-X	D2.23
LCC3/0-12-X	D2.20
LCC3/0-14BW-X	D2.23
LCC3/0-14B-X	D2.20
LCC3/0-38DW-X	D2.23
LCC3/0-38D-X	D2.20
LCC3/0-56DW-X	D2.23
LCC4/0-12-B-X	D3.13
LCC4/0-12DW-X	D2.23
LCC4/0-12D-X	D2.20
LCC4/0-12W-X	D2.23
LCC4/0-12-X	D2.20
LCC4/0-14AW-X	D2.23
LCC4/0-14BW-X	D2.23
LCC4/0-14B-X	D2.20
LCC4/0-38DW-X	D2.23
LCC4/0-38D-X	D2.20
LCC4/0-38W-X	D2.23
LCC4/0-38-X	D2.20
LCC4/0-56DW-X	D2.23
LCC4/0-56D-X	D2.20
LCC4-10AW-L	D2.22
LCC4-10BW-L	D2.22
LCC4-12-L	D2.19
LCC4-12W-L	D2.22
LCC4-14ADW-L	D2.22
LCC4-14A-L	D2.19
LCC4-14AW-L	D2.22
LCC4-14B-L	D2.19
LCC4-14BW-L	D2.22
LCC4-14DW-L	D2.22
LCC4-38D-L	D2.19
LCC4-38DW-L	D2.22
LCC6-10ABW-L	D2.22
LCC6-10A-L	D2.19
LCC6-10AW-L	D2.22
LCC6-10BW-L	D2.22
LCC6-12-B-L	D3.13
LCC6-12-L	D2.19
LCC6-12W-L	D2.22

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Part Number Index

Part Number	Page Number
LCC6-14A-L	D2.19
LCC6-14AW-L	D2.22
LCC6-14BDW-L	D2.22
LCC6-14B-L	D2.19
LCC6-14BW-L	D2.22
LCC6-14D-L	D2.19
LCC6-14DW-L	D2.22
LCC6-14EW-L	D2.22
LCC6-14JAW-L	D2.22
LCC6-14JW-L	D2.22
LCC6-14W-L	D2.22
LCC6-38BDW-L	D2.22
LCC6-38BW-L	D2.22
LCC6-38CW-L	D2.22
LCC6-38D-L	D2.19
LCC6-38DW-L	D2.22
LCC6-56BW-L	D2.22
LCC8-10ABW-L	D2.22
LCC8-10A-L	D2.19
LCC8-10AW-L	D2.22
LCC8-10BW-L	D2.22
LCC8-14ABW-L	D2.22
LCC8-14A-L	D2.19
LCC8-14AW-L	D2.22
LCC8-14B-L	D2.19
LCC8-14BW-L	D2.22
LCC8-14D-L	D2.19
LCC8-14DW-L	D2.22
LCC8-38D-L	D2.19
LCC8-38DW-L	D2.22
LCC10-14AW-L	D2.21
LCC10-14BW-L	D2.21
LCC10-14JAW-L	D2.21
LCC250-12-B-X	D3.13
LCC250-12DW-X	D2.24
LCC250-12D-X	D2.20
LCC250-12W-X	D2.24
LCC250-12-X	D2.20
LCC250-38DW-X	D2.24
LCC250-38D-X	D2.20
LCC250-56DW-X	D2.24
LCC300-12W-X	D2.24
LCC300-12-X	D2.20
LCC300-38DW-X	D2.24
LCC300-38D-X	D2.20
LCC350-12W-X	D2.24
LCC350-12-X	D2.20
LCC350-14BW-X	D2.24
LCC350-14B-X	D2.20
LCC350-38DW-X	D2.24
LCC350-38D-X	D2.20
LCC400-12-6	D2.20
LCC400-12W-6	D2.24
LCC400-14B-6	D2.20
LCC400-14BW-6	D2.24
LCC400-38D-6	D2.20
LCC400-38DW-6	D2.24
LCC500-12-6	D2.21
LCC500-12-B-6	D3.13
LCC500-12W-6	D2.24
LCC500-14B-6	D2.21
LCC500-14BW-6	D2.24
LCC500-38D-6	D2.21
LCC500-38DW-6	D2.24
LCC600-12-6	D2.21
LCC600-12W-6	D2.24
LCC600-38D-6	D2.21
LCC600-38DW-6	D2.24
LCC750-12-6	D2.21
LCC750-12W-6	D2.24
LCC750-38D-6	D2.21
LCC750-38DW-6	D2.24
LCC800-12-6	D2.21
LCC800-12W-6	D2.24
LCC1000-12-3	D2.21
LCC1000-12W-3	D2.24
LCC1000-38D-3	D2.21
LCC1000-38DW-3	D2.24
LCCN750-12W-6	D2.25
LCCN750-38DW-6	D2.25
LCCX1/0-12-X	D2.39
LCCX1/0-14A-X	D2.39
LCCX1/0-14B-X	D2.39
LCCX1/0-38D-X	D2.39
LCCX1-14A-X	D2.39
LCCX1-14B-X	D2.39
LCCX1-14D-X	D2.39
LCCX1-38D-X	D2.39
LCCX1-56C-X	D2.39
LCCX1-56D-X	D2.39
LCCX2/0-12-X	D2.39
LCCX2/0-14A-X	D2.39
LCCX2/0-14B-X	D2.39
LCCX2/0-38D-X	D2.39
LCCX2-12-E	D2.39
LCCX2-14A-E	D2.39
LCCX2-14B-E	D2.39
LCCX2-38D-E	D2.39
LCCX3/0-14B-X	D2.39
LCCX3/0-38D-X	D2.39
LCCX4/0-12-X	D2.39
LCCX4/0-14B-X	D2.39
LCCX4/0-38D-X	D2.39
LCCX4-14AB-L	D2.38
LCCX4-14A-L	D2.38
LCCX4-14B-L	D2.38
LCCX4-14CE-L	D2.38
LCCX4-38BD-L	D2.38
LCCX4-38B-L	D2.38
LCCX4-38D-L	D2.38
LCCX6-10B-L	D2.38
LCCX6-14AB-L	D2.38
LCCX6-14A-L	D2.38
LCCX6-14B-L	D2.38
LCCX6-14D-L	D2.38
LCCX6-38AC-L	D2.38
LCCX6-38A-L	D2.38
LCCX6-38C-L	D2.38
LCCX6-38D-L	D2.38
LCCX8-10AB-L	D2.38
LCCX8-10A-L	D2.38
LCCX8-10B-L	D2.38
LCCX8-14AB-L	D2.38
LCCX8-14A-L	D2.38
LCCX8-14B-L	D2.38
LCCX8-14D-L	D2.38
LCCX8-38D-L	D2.38
LCCX250-12-X	D2.39
LCCX250-14B-X	D2.39
LCCX250-38D-X	D2.39
LCCX300-12-6	D2.39
LCCX300-38D-6	D2.39
LCCX350-12-6	D2.39
LCCX350-14B-6	D2.39
LCCX350-38D-6	D2.39
LCCX450-12-6	D2.39
LCCX500-12-6	D2.39
LCCX500-38D-6	D2.39
LCCX650-12-6	D2.39
LCCXN2-14A-E	D2.40
LCCXN2-14B-E	D2.40
LCCXN2-14D-E	D2.40
LCCXN450-12-6	D2.40
LCCXN500-12-6	D2.40
LCCXN650-12-6	D2.40
LCCXN750-12-3	D2.40
LCD1/0-12-X	D2.16
LCD1/0-14A-X	D2.16
LCD1/0-14B-X	D2.16
LCD1/0-38D-X	D2.16
LCD1/0-56C-X	D2.16
LCD1-12-E	D2.16
LCD1-14A-E	D2.16
LCD1-14B-E	D2.16
LCD1-38D-E	D2.16
LCD1-56C-E	D2.16
LCD2/0-12-X	D2.16
LCD2/0-14A-X	D2.16
LCD2/0-14B-X	D2.16
LCD2/0-38D-X	D2.16
LCD2/0-56C-X	D2.16
LCD2-12-Q	D2.16
LCD2-14A-Q	D2.16
LCD2-14B-Q	D2.16
LCD2-14D-Q	D2.16
LCD2-38D-Q	D2.16
LCD2-56B-Q	D2.16
LCD2-56D-Q	D2.15
LCD3/0-12-X	D2.16
LCD3/0-14B-X	D2.16
LCD3/0-38D-X	D2.16
LCD3/0-56D-X	D2.16
LCD4/0-12-X	D2.16
LCD4/0-14B-X	D2.16
LCD4/0-14D-X	D2.15
LCD4/0-38D-X	D2.16
LCD4/0-56B-X	D2.15
LCD4-10A-L	D2.15
LCD4-10B-L	D2.15
LCD4-14A-L	D2.15
LCD4-14B-L	D2.15
LCD4-14D-L	D2.15
LCD4-38D-L	D2.15
LCD4-56B-L	D2.15
LCD6-10A-L	D2.15
LCD6-10B-L	D2.15

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
LCD6-10D-L	D2.15
LCD6-14A-L	D2.15
LCD6-14B-L	D2.15
LCD6-14D-L	D2.15
LCD6-38D-L	D2.15
LCD6-56D-L	D2.15
LCD8-10A-L	D2.15
LCD8-14A-L	D2.15
LCD8-14B-L	D2.15
LCD8-14D-L	D2.15
LCD8-38D-L	D2.15
LCD10-10A-L	D2.15
LCD10-14A-L	D2.15
LCD10-14B-L	D2.15
LCD10-14D-L	D2.15
LCD10-38D-L	D2.15
LCD250-12-X	D2.16
LCD250-38D-X	D2.16
LCD300-12-X	D2.16
LCD300-38D-X	D2.16
LCD350-12E-X	D2.16
LCD350-12-X	D2.16
LCD350-14B-X	D2.16
LCD350-38D-X	D2.16
LCD350-56B-X	D2.15
LCD400-12-6	D2.16
LCD400-38D-6	D2.16
LCD500-12-6	D2.17
LCD500-12E-6	D2.17
LCD500-14B-6	D2.17
LCD500-38D-6	D2.17
LCD600-12-6	D2.17
LCD600-38D-6	D2.17
LCD750-12-6	D2.17
LCD750-38D-6	D2.17
LCD750-58G-6	D2.17
LCD1000-12-3	D2.17
LCD1000-12E-3	D2.17
LCDN1/0-14D-X	D2.18
LCDN1/0-56D-X	D2.18
LCDN1-14B-E	D2.18
LCDN2/0-14A-X	D2.18
LCDN2/0-14D-X	D2.18
LCDN2/0-56A-X	D2.18
LCDN2/0-56D-X	D2.18
LCDN2-10B-Q	D2.18
LCDN2-14A-Q	D2.18
LCDN2-14B-Q	D2.18
LCDN2-14D-Q	D2.18
LCDN350-38D-X	D2.18
LCDN500-12D-6	D2.18
LCDN500-38D-6	D2.18
LCDN750-38D-6	D2.18
LCDX1/0-12D-X	D2.35
LCDX1/0-12-X	D2.35
LCDX1/0-14A-X	D2.35
LCDX1/0-14B-X	D2.35
LCDX1/0-38D-X	D2.35
LCDX1/0-56B-X	D2.35
LCDX1/0-56D-X	D2.35
LCDX1-12-X	D2.35
LCDX1-14A-X	D2.35
LCDX1-14B-X	D2.35
LCDX1-14D-X	D2.35
LCDX1-38D-X	D2.35
LCDX1-56D-X	D2.35
LCDX2/0-12D-X	D2.35
LCDX2/0-12-X	D2.35
LCDX2/0-14A-X	D2.35
LCDX2/0-14B-X	D2.35
LCDX2/0-38D-X	D2.35
LCDX2/0-56D-X	D2.35
LCDX2-12-E	D2.35
LCDX2-14A-E	D2.35
LCDX2-14B-E	D2.35
LCDX2-14D-E	D2.35
LCDX2-38D-E	D2.35
LCDX2-56D-E	D2.35
LCDX3/0-12-X	D2.35
LCDX3/0-14A-X	D2.35
LCDX3/0-38D-X	D2.35
LCDX3/0-56D-X	D2.35
LCDX4/0-12D-X	D2.36
LCDX4/0-12E-X	D2.36
LCDX4/0-12-X	D2.36
LCDX4/0-14A-X	D2.36
LCDX4/0-14B-X	D2.36
LCDX4/0-38D-X	D2.36
LCDX4/0-56D-X	D2.36
LCDX4-14A-L	D2.35
LCDX4-14B-L	D2.35
LCDX4-14D-L	D2.35
LCDX4-38D-L	D2.35
LCDX4-56D-L	D2.35
LCDX6-10A-L	D2.35
LCDX6-10B-L	D2.35
LCDX6-10G-L	D2.35
LCDX6-10P-L	D2.35
LCDX6-14A-L	D2.35
LCDX6-14B-L	D2.35
LCDX6-14D-L	D2.35
LCDX6-38D-L	D2.35
LCDX6-56D-L	D2.35
LCDX8-10A-L	D2.34
LCDX8-14A-L	D2.34
LCDX8-14B-L	D2.34
LCDX8-14D-L	D2.34
LCDX8-38D-L	D2.34
LCDX250-12E-X	D2.36
LCDX250-12-X	D2.36
LCDX250-38D-X	D2.36
LCDX250-38-X	D2.36
LCDX300-12-6	D2.36
LCDX300-38D-6	D2.36
LCDX350-12-6	D2.36
LCDX350-12E-6	D2.36
LCDX350-38-6	D2.36
LCDX350-38D-6	D2.36
LCDX350-56D-6	D2.36
LCDX450-12-6	D2.36
LCDX450-38D-6	D2.36
LCDX500-12-6	D2.36
LCDX500-12E-6	D2.36
LCDX500-38D-6	D2.36
LCDX500-56D-6	D2.36
LCDX600-12-6	D2.36
LCDX650-12-6	D2.36
LCDX650-38D-6	D2.36
LCDX750-12-3	D2.36
LCDX750-12E-3	D2.36
LCDX750-12G-3	D2.36
LCDX750-38D-3	D2.36
LCDX750-58G-3	D2.36
LCDXN2-14A-E	D2.37
LCDXN4/0-38D-X	D2.37
LCDXN350-38D-6	D2.37
LCDXN500-12-6	D2.37
LCDXN500-38D-6	D2.37
LCDXN750-12-3	D2.37
LCDXN750-38D-3	D2.37
LCMA2.5-4-C	D2.47
LCMA6-5-C	D2.47
LCMA6-6-C	D2.47
LCMA6-8-C	D2.47
LCMA6-10-C	D2.47
LCMA10-5-C	D2.47
LCMA10-5F-C	D2.51
LCMA10-5H-C	D2.49
LCMA10-6-C	D2.47
LCMA10-6F-C	D2.51
LCMA10-6H-C	D2.49
LCMA10-8-C	D2.47
LCMA10-8F-C	D2.51
LCMA10-8H-C	D2.49
LCMA10-10-C	D2.47
LCMA10-10F-C	D2.51
LCMA10-10H-C	D2.49
LCMA10-12-C	D2.47
LCMA16-5-C	D2.47
LCMA16-5F-C	D2.51
LCMA16-5H-C	D2.49
LCMA16-6-C	D2.47
LCMA16-6F-C	D2.51
LCMA16-6H-C	D2.49
LCMA16-8-C	D2.47
LCMA16-8F-C	D2.51
LCMA16-8H-C	D2.49
LCMA16-10-C	D2.47
LCMA16-10F-C	D2.51
LCMA16-10H-C	D2.49
LCMA25-5-C	D2.47
LCMA25-5F-C	D2.51
LCMA25-5H-C	D2.49
LCMA25-6-C	D2.47
LCMA25-6F-C	D2.51
LCMA25-6H-C	D2.49
LCMA25-8-C	D2.47
LCMA25-8F-C	D2.51
LCMA25-8H-C	D2.49
LCMA25-10-C	D2.47
LCMA25-10F-C	D2.51
LCMA25-10H-C	D2.49
LCMA35-6-C	D2.47
LCMA35-6F-C	D2.51
LCMA35-6H-C	D2.49
LCMA35-8-C	D2.47

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
LCMA35-8F-C	D2.51
LCMA35-8H-C	D2.49
LCMA35-10-C	D2.47
LCMA35-10F-C	D2.51
LCMA35-10H-C	D2.49
LCMA35-12-C	D2.47
LCMA35-12F-C	D2.51
LCMA35-12H-C	D2.49
LCMA50-6F-L	D2.51
LCMA50-6H-L	D2.49
LCMA50-6-L	D2.47
LCMA50-8F-L	D2.51
LCMA50-8H-L	D2.49
LCMA50-8-L	D2.47
LCMA50-10F-L	D2.51
LCMA50-10H-L	D2.49
LCMA50-10-L	D2.47
LCMA50-12F-L	D2.51
LCMA50-12H-L	D2.49
LCMA50-12-L	D2.47
LCMA70-6F-L	D2.51
LCMA70-6H-L	D2.50
LCMA70-6-L	D2.48
LCMA70-8F-L	D2.51
LCMA70-8H-L	D2.50
LCMA70-8-L	D2.48
LCMA70-10F-L	D2.51
LCMA70-10H-L	D2.50
LCMA70-10-L	D2.48
LCMA70-12F-L	D2.51
LCMA70-12H-L	D2.50
LCMA70-12-L	D2.48
LCMA95-6F-L	D2.51
LCMA95-6H-L	D2.50
LCMA95-6-L	D2.48
LCMA95-8F-L	D2.51
LCMA95-8H-L	D2.50
LCMA95-8-L	D2.48
LCMA95-10F-L	D2.51
LCMA95-10H-L	D2.50
LCMA95-10-L	D2.48
LCMA95-12F-L	D2.51
LCMA95-12H-L	D2.50
LCMA95-12-L	D2.48
LCMA95-16F-L	D2.51
LCMA95-16H-L	D2.50
LCMA95-16-L	D2.48
LCMA120-8F-L	D2.52
LCMA120-8H-L	D2.50
LCMA120-8-L	D2.48
LCMA120-10F-L	D2.52
LCMA120-10H-L	D2.50
LCMA120-10-L	D2.48
LCMA120-12F-L	D2.52
LCMA120-12H-L	D2.50
LCMA120-12-L	D2.48
LCMA120-14-L	D2.48
LCMA120-16F-L	D2.52
LCMA120-16H-L	D2.50
LCMA120-16-L	D2.48
LCMA150-8F-X	D2.52
LCMA150-8H-X	D2.50
LCMA150-8-X	D2.48
LCMA150-10F-X	D2.52
LCMA150-10H-X	D2.50
LCMA150-10-X	D2.48
LCMA150-12F-X	D2.52
LCMA150-12H-X	D2.50
LCMA150-12-X	D2.48
LCMA150-16F-X	D2.52
LCMA150-16H-X	D2.50
LCMA150-16-X	D2.48
LCMA150-20F-X	D2.52
LCMA150-20H-X	D2.50
LCMA150-20-X	D2.48
LCMA185-8F-X	D2.52
LCMA185-8H-X	D2.50
LCMA185-8-X	D2.48
LCMA185-10F-X	D2.52
LCMA185-10H-X	D2.50
LCMA185-10-X	D2.48
LCMA185-12F-X	D2.52
LCMA185-12H-X	D2.50
LCMA185-12-X	D2.48
LCMA185-16F-X	D2.52
LCMA185-16H-X	D2.50
LCMA185-16-X	D2.48
LCMA185-20F-X	D2.52
LCMA185-20H-X	D2.50
LCMA185-20-X	D2.48
LCMA240-10F-X	D2.52
LCMA240-10H-X	D2.50
LCMA240-10-X	D2.48
LCMA240-12F-X	D2.52
LCMA240-12H-X	D2.50
LCMA240-12-X	D2.48
LCMA240-16F-X	D2.52
LCMA240-16H-X	D2.50
LCMA240-16-X	D2.48
LCMA240-20F-X	D2.52
LCMA240-20H-X	D2.50
LCMA240-20-X	D2.48
LCMA300-10-5	D2.48
LCMA300-10F-5	D2.52
LCMA300-10H-5	D2.50
LCMA300-12-5	D2.48
LCMA300-12F-5	D2.52
LCMA300-12H-5	D2.50
LCMA300-16-5	D2.48
LCMA300-16F-5	D2.52
LCMA300-16H-5	D2.50
LCMA300-20-5	D2.48
LCMA300-20F-5	D2.52
LCMA300-20H-5	D2.50
LCMA400-12-5	D2.48
LCMA400-16-5	D2.48
LCMA400-20-5	D2.48
LCMA500-00-1	D2.48
LCMA500-12-1	D2.48
LCMA500-16-1	D2.48
LCMA500-20-1	D2.48
LCMA630-00-1	D2.48
LCMA630-12-1	D2.48
LCMA630-16-1	D2.48
LCMA630-20-1	D2.48
LCMAX300-10-5	D2.48
LCMAX300-10F-5	D2.52
LCMAX300-10H-5	D2.50
LCMAX300-12-5	D2.48
LCMAX300-12F-5	D2.52
LCMAX300-12H-5	D2.50
LCMAX300-16-5	D2.48
LCMAX300-16F-5	D2.52
LCMAX300-16H-5	D2.50
LCMAX300-20-5	D2.48
LCMAX300-20F-5	D2.52
LCMAX300-20H-5	D2.50
LCMB10-5-L	D2.53
LCMB10-6-L	D2.53
LCMB10-8-L	D2.53
LCMB10-10-L	D2.53
LCMB16-5-L	D2.53
LCMB16-6-L	D2.53
LCMB16-8-L	D2.53
LCMB16-10-L	D2.53
LCMB25-5-L	D2.53
LCMB25-6-L	D2.53
LCMB25-8-L	D2.53
LCMB25-10-L	D2.53
LCMB35-6-Q	D2.53
LCMB35-8-Q	D2.53
LCMB35-10-Q	D2.53
LCMB35-12-Q	D2.53
LCMB50-6-E	D2.53
LCMB50-8-E	D2.53
LCMB50-10-E	D2.53
LCMB50-12-E	D2.53
LCMB70-8-X	D2.53
LCMB70-10-X	D2.53
LCMB70-12-X	D2.53
LCMB95-6-L	D2.54
LCMB95-6-X	D2.54
LCMB95-8-X	D2.54
LCMB95-10-X	D2.54
LCMB95-12-X	D2.54
LCMB95-16-X	D2.54
LCMB120-8-X	D2.54
LCMB120-10-X	D2.54
LCMB120-12-X	D2.54
LCMB120-16-X	D2.54
LCMB150-8-X	D2.54
LCMB150-10-X	D2.54
LCMB150-12-X	D2.54
LCMB150-16-X	D2.54
LCMB150-20-X	D2.54
LCMB185-10-X	D2.54
LCMB185-12-X	D2.54
LCMB185-16-X	D2.54
LCMB185-20-X	D2.54
LCMB240-10-6	D2.54
LCMB240-12-6	D2.54
LCMB240-16-6	D2.54
LCMB240-20-6	D2.54
LCMB300-10-6	D2.54
LCMB300-12-6	D2.54
LCMB300-16-6	D2.54

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
LCMB300-20-6	D2.54
LCMB400-12-6	D2.54
LCMB400-16-6	D2.54
LCMB400-20-6	D2.54
LCMB500-12-3	D2.54
LCMB500-16-3	D2.54
LCMB500-20-3	D2.54
LCMB630-16-3	D2.54
LCMB630-20-3	D2.54
LCMBX300-10-6	D2.54
LCMBX300-12-6	D2.54
LCMBX300-16-6	D2.54
LCMBX300-20-6	D2.54
LCMC10-00-L	D2.57
LCMC10-8-L	D2.57
LCMC16-00-L	D2.57
LCMC16-8-L	D2.57
LCMC25-00-L	D2.57
LCMC25-5-L	D2.57
LCMC25-8-L	D2.57
LCMC25-10-L	D2.57
LCMC25-12-L	D2.57
LCMC35-00-Q	D2.57
LCMC35-8-Q	D2.57
LCMC35-10-Q	D2.57
LCMC35-12-Q	D2.57
LCMC50-00-E	D2.57
LCMC50-10-E	D2.57
LCMC50-12-E	D2.57
LCMC70-00-X	D2.57
LCMC70-10-X	D2.57
LCMC70-12-X	D2.57
LCMC95-00-X	D2.57
LCMC95-6-L	D2.57
LCMC95-6-X	D2.57
LCMC95-10-X	D2.57
LCMC95-12-X	D2.57
LCMC95-14-X	D2.57
LCMC120-00-X	D2.58
LCMC120-12-X	D2.58
LCMC120-14-X	D2.58
LCMC150-00-X	D2.58
LCMC150-12-X	D2.58
LCMC150-14-X	D2.58
LCMC185-00-X	D2.58
LCMC185-8-X	D2.58
LCMC185-12-X	D2.58
LCMC185-14-X	D2.58
LCMC240-00-6	D2.58
LCMC240-12-6	D2.58
LCMC240-14-6	D2.58
LCMC300-00-6	D2.58
LCMC300-12-6	D2.58
LCMC300-14-6	D2.58
LCMC400-00-6	D2.58
LCMC400-12-6	D2.58
LCMC400-14-6	D2.58
LCMC400-16-6	D2.58
LCMC500-00-3	D2.58
LCMC500-12-3	D2.58
LCMC500-14-3	D2.58
LCMC500-16-3	D2.58
LCMC630-00-3	D2.58
LCMC630-12-3	D2.58
LCMC630-14-3	D2.58
LCMC630-16-3	D2.58
LCMCX300-00-6	D2.58
LCMCX300-12-6	D2.58
LCMCX300-14-6	D2.58
LCMD6-5CD-Q	D2.55
LCMD10-00-Q	D2.55
LCMD10-6CD-Q	D2.55
LCMD10-8-Q	D2.55
LCMD16-00-Q	D2.55
LCMD16-6CD-Q	D2.55
LCMD16-8-Q	D2.55
LCMD16-12-Q	D2.55
LCMD25-00-Q	D2.55
LCMD25-8CD-Q	D2.55
LCMD25-8-Q	D2.55
LCMD25-10-Q	D2.55
LCMD25-12-Q	D2.55
LCMD35-00-Q	D2.55
LCMD35-8CD-Q	D2.55
LCMD35-8-Q	D2.55
LCMD35-10-Q	D2.55
LCMD35-12-Q	D2.55
LCMD35-1040-Q	D2.55
LCMD50-00-X	D2.55
LCMD50-8CD-Q	D2.55
LCMD50-10CD-X	D2.55
LCMD50-10-X	D2.55
LCMD50-12-X	D2.55
LCMD70-00-X	D2.55
LCMD70-10CD-X	D2.55
LCMD70-10-X	D2.55
LCMD70-12-X	D2.55
LCMD70-1040-X	D2.56
LCMD70-1240-X	D2.56
LCMD95-00-X	D2.56
LCMD95-10CD-X	D2.56
LCMD95-10-X	D2.56
LCMD95-12-X	D2.56
LCMD95-14-X	D2.56
LCMD120-00-X	D2.56
LCMD120-10CD-X	D2.56
LCMD120-12-X	D2.56
LCMD120-14-X	D2.56
LCMD120-1240-X	D2.56
LCMD150-00-X	D2.56
LCMD150-10CD-X	D2.56
LCMD150-12-X	D2.56
LCMD150-14-X	D2.56
LCMD185-00-X	D2.56
LCMD185-10CD-X	D2.56
LCMD185-12-X	D2.56
LCMD185-14-X	D2.56
LCMD240-00-5	D2.56
LCMD240-10CD-5	D2.56
LCMD240-12-5	D2.56
LCMD240-14-5	D2.56
LCMD300-00-5	D2.56
LCMD300-10CD-5	D2.56
LCMD300-12-5	D2.56
LCMD300-14-5	D2.56
LCMD400-00-5	D2.56
LCMD400-12-5	D2.56
LCMD400-14-5	D2.56
LCMD400-16-5	D2.56
LCMD500-00-1	D2.56
LCMD500-12-1	D2.56
LCMD500-14-1	D2.56
LCMD500-16-1	D2.56
LCMD630-00-1	D2.56
LCMD630-12-1	D2.56
LCMD630-14-1	D2.56
LCMD630-16-1	D2.56
LCMDX300-00-5	D2.56
LCMDX300-12-5	D2.56
LCMDX300-14-5	D2.56
LCP750-12-3	D2.25
LCP1000-12-3	D2.25
LD2P10IW8-A	C2.7
LD2P10 – Left channel	C2.4
LD2P10 – Right channel	C2.4
LD3	C2.4
LD3IW6-A	C2.5
LD3IW8-A	C2.5
LD3IW10-A	C2.5
LD5	C2.4
LD5IW6-A	C2.5
LD5IW8-A	C2.5
LD5IW10-A	C2.5
LD10	C2.4
LD10IW6-A	C2.5
LD10IW8-A	C2.5
LD10IW10-A	C2.5
LDPH3	C2.4
LDPH3IW6-A	C2.5
LDPH3IW8-A	C2.5
LDPH3IW10-A	C2.5
LDPH5	C2.4
LDPH5IW6-A	C2.5
LDPH5IW8-A	C2.5
LDPH5IW10-A	C2.5
LDPH10	C2.4
LDPH10IW6-A	C2.5
LDPH10IW8-A	C2.5
LDPH10IW10-A	C2.5
LHMS-S5-D	B2.15
LHMS-S6-D	B2.15
LHMS-S10-D	B2.15
LIAC4-22-C	D3.20
LIAS1/0-14-L	D3.20
LIAS250-56-Q	D3.20
LICC4-22-C	D3.20
LICC4-22TP-C	D3.20
LPFCM14-A-C14	B2.34
LPFCM22-A-C14	B2.34
LPFCM34-A-C14	B2.34
LPMM-S2-C	B2.12
LPMM-S5-C	B2.12
LPMS-S8-C	B2.12
LS8-CASE	E1.3
LS8-CLN	E1.3
LS8E	E1.3

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Part Number Index

Part Number	Page Number
LS8E-ACS	E1.3
LS8E-KIT	E1.3
LS8E-KIT-ACS	E1.3
LS8EQ	E1.3
LS8EQ-KIT	E1.3
LS8EQ-KIT-ACS	E1.3
LS8-IB	E1.3
LS8-PCKIT	E1.3
LS8-WS	E1.3
LTYK	D3.5
LV-S-1G	C4.7
LV-S-2G	C4.7
LV-W-1G	C4.7
LV-W-2G	C4.7
LWC19-A-C	B2.31
LWC19-A-C14	B2.31
LWC19-A-C20	B2.31
LWC19-H25-C	B2.31
LWC19-H25-C14	B2.31
LWC25-A-C	B2.31
LWC25-A-C14	B2.31
LWC25-A-C20	B2.31
LWC25-H25-C	B2.31
LWC25-H25-C14	B2.31
LWC25-H25-C20	B2.31
LWC38-A-C	B2.31
LWC38-A-C14	B2.31
LWC38-A-C20	B2.31
LWC38-H25-C	B2.31
LWC38-H25-C14	B2.31
LWC38-H25-C20	B2.31
LWC50-A-L	B2.31
LWC50-A-L14	B2.31
LWC50-A-L20	B2.31
LWC50-H25-L	B2.31
LWC50-H25-L14	B2.31
LWC50-H25-L20	B2.31
LWC75-A-L	B2.31
LWC75-A-L14	B2.31
LWC75-A-L20	B2.31
LWC75-H25-L	B2.31
LWC75-H25-L14	B2.31
LWC75-H25-L20	B2.31
LWC100-A-L	B2.31
LWC100-A-L14	B2.31
LWC100-A-L20	B2.31
LWC100-H25-L	B2.31
LWC100-H25-L14	B2.31
LWC100-H25-L20	B2.31
M200X042FQT	E2.8
M200X042FQT-B	E2.8
M200X042UPT	E2.8
M200X042UPT-B	E2.8
M200X050ACT	E2.9
M200X050AET	E2.9
M200X050AFT	E2.9
M200X050AGT	E2.9
M200X050AIT	E2.9
M200X050Y6T	E2.9
M200X050Y7T	E2.9
M200X080FQT	E2.8
M200X080FQT-B	E2.8
M200X080UPT	E2.8
M200X080UPT-B	E2.8
M200X100ACT	E2.9
M200X100AET	E2.9
M200X100AFT	E2.9
M200X100AGT	E2.9
M200X100AIT	E2.9
M200X100Y6T	E2.9
M200X100Y6T-B	E2.9
M200X100Y7T	E2.9
M200X100Y7T-B	E2.9
M300X050ACT	E2.9
M300X050AET	E2.9
M300X050AFT	E2.9
M300X050AGT	E2.9
M300X050AIT	E2.9
M300X050Y6C	E1.7
M300X050Y6T	E2.9
M300X050Y7C	E1.7
M300X050Y7T	E2.9
M300X100ACT	E2.9
M300X100AET	E2.9
M300X100AFT	E2.9
M300X100AGT	E2.9
M300X100AIT	E2.9
M300X100Y6T	E2.9
M300X100Y7T	E2.9
M23190/3-1	B3.30
M23190/3-2	B3.30
M23190/3-3	B3.30
M23190/3-4	B3.30
M23190/3-5	B3.30
M23190/3-6	B3.30
M23190/3-7	B3.30
M23190/3-8	B3.30
M23190/3-9	B3.30
MACC25-A-C	B2.30
MACC25-AV-D	B2.30
MACC62-A-C	B2.30
MACC62-AV-C	B2.30
MBCEH-QR316	B3.15
MBCH-QR316	B3.15
MBCSH-QR316	B3.15
MBEH-TLR	B3.14
MBH-MR	B3.14
MBH-TLR	B3.14
MBM-H25-Q	B3.26
MBMS-S10-CY	B2.17
MBSH-TR	B3.14
MBS-MR	B3.14
MBS-TLR	B3.14
MC25X25IG2	C1.21
MC25X37IG2	C1.21
MC25X50IG2	C1.21
MC25X62IG2	C1.21
MC25X75IG2	C1.21
MC37X37IG2	C1.21
MC37X50IG2	C1.21
MC37X62IG2	C1.21
MC37X75IG2	C1.21
MC50X50IG2	C1.21
MC50X75IG2	C1.21
MC50X100IG2	C1.21
MC62X62IG2	C1.21
MC75X50IG2	C1.21
MC75X62IG2	C1.21
MC75X75IG2	C1.21
MC75X100IG2	C1.21
MC100X50IG2	C1.21
MC100X75IG2	C1.21
MC100X100IG2	C1.21
MCEH-S25-C0	B1.11, B1.22
MCMS12-P-C	B2.16
MCMS12-PJ-C	B2.16
MCMS25-P-C	B2.16
MCMS30-P-C	B2.16
MDC79	G1.9
MDC79D	G1.9
MEHT187	E4.5
META-X	E4.5
METS3-X	E4.5
METS4-X	E4.5
MGC2-2/0-Q	D3.26
MGC2-4-Q	D3.26
MGC2-250-X	D3.26
MGC2-500-X	D3.26
MIM094	E4.6
MIM125	E4.6
MIM187	E4.6
MIW094	E4.6
MIW125	E4.6
MIW187	E4.6
ML1/0-LY	D2.70
ML4-CY	D2.70
ML8-CY	D2.70
ML250-QY	D2.70
MLT1H-LPAL	B3.12
MLT1S-CP	B3.5
MLT2.7S-CP	B3.5
MLT2.7WH-LP	B3.7
MLT2.7WLH-LP	B3.7
MLT2.7WS-LP	B3.7
MLT2DH-L	B3.13
MLT2H-LP	B3.6, B3.30
MLT2H-LP316	B3.30
MLT2H-LPAL	B3.12
MLT2LH-LP	B3.6
MLT2S-CP	B3.5, B3.30
MLT2S-CP316	B3.30
MLT2S-L	B3.5
MLT4DEH-Q	B3.13
MLT4DH-L	B3.13
MLT4EH-LP	B3.6
MLT4H-LP	B3.6, B3.30
MLT4H-LP316	B3.30
MLT4H-LPAL	B3.12
MLT4LH-LP	B3.6
MLT4S-CP	B3.5, B3.30
MLT4S-CP316	B3.30
MLT4SH-LP	B3.6
MLT4S-L	B3.5
MLT4WH-LP	B3.7
MLT4WLH-LP	B3.7
MLT4WS-LP	B3.7

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
MLT6DEH-Q	B3.13
MLT6DEH-Q316	B3.13
MLT6DH-Q	B3.13
MLT6DSH-Q	B3.13
MLT6DSH-Q316	B3.13
MLT6EH-LP	B3.6
MLT6H-LP	B3.6, B3.30
MLT6H-LP316	B3.30
MLT6LH-LP	B3.6
MLT6S-CP	B3.5, B3.30
MLT6S-CP316	B3.30
MLT6SH-LP	B3.6
MLT6WH-LP	B3.7
MLT6WLH-LP	B3.7
MLT6WS-LP	B3.7
MLT8DEH-Q	B3.13
MLT8DEH-Q316	B3.13
MLT8DSH-Q	B3.13
MLT8DSH-Q316	B3.13
MLT8EH-LP	B3.6
MLT8H-LP	B3.6, B3.30
MLT8H-LP316	B3.30
MLT8LH-LP	B3.6
MLT8S-CP	B3.5, B3.30
MLT8S-CP316	B3.30
MLT8SH-LP	B3.6
MLT8WH-LP	B3.7
MLT8WLH-LP	B3.7
MLT8WS-LP	B3.7
MLT10EH-LP	B3.6
MLT10H-LP	B3.6, B3.30
MLT10H-LP316	B3.30
MLT10S-CP	B3.5
MLT10SH-LP	B3.6
MLT10WH-LP	B3.7
MLT12EH-Q	B3.6
MLT12SH-Q	B3.6
MLT12S-Q	B3.5
MLT14H-Q	B3.6
MLT14S-Q	B3.5
MLT15S-Q	B3.5
MLTC2H-LP316	B3.11
MLTC4H-LP316	B3.11
MLTC6H-LP316	B3.11
MLTC8H-LP316	B3.11
MLTC10H-LP316	B3.11
MLTFC2H-LP316	B3.10
MLTFC2H-LP316BU	B3.10
MLTFC2H-LP316GR	B3.10
MLTFC2H-LP316RD	B3.10
MLTFC2H-LP316WH	B3.10
MLTFC2H-LP316YL	B3.10
MLTFC2S-CP316	B3.10
MLTFC4EH-LP316	B3.11
MLTFC4H-LP316	B3.10
MLTFC4H-LP316BU	B3.10
MLTFC4H-LP316GR	B3.10
MLTFC4H-LP316RD	B3.10
MLTFC4H-LP316WH	B3.10
MLTFC4H-LP316YL	B3.10
MLTFC4S-CP316	B3.10
MLTFC4SH-LP316	B3.11
MLTFC6EH-LP316	B3.11
MLTFC6H-LP316	B3.10
MLTFC6H-LP316BU	B3.10
MLTFC6H-LP316GR	B3.10
MLTFC6H-LP316RD	B3.10
MLTFC6H-LP316WH	B3.10
MLTFC6H-LP316YL	B3.10
MLTFC6S-CP316	B3.10
MLTFC6SH-LP316	B3.11
MLTFC8EH-LP316	B3.11
MLTFC8H-LP316	B3.10
MLTFC8S-CP316	B3.10
MLTFC8SH-LP316	B3.11
MMP172-C	E4.3
MMP172-M	E4.3
MMP172W38-M	E4.3
MMP337W53-MAL-4	E4.3
MMP337W71-MAL-3	E4.3
MMP350-C	E4.3
MMP350-C316	E4.3
MMP350DB-C	E4.3
MMP350DB-C316	E4.3
MMP350H-C	E4.4
MMP350H-C316	E4.4
MMP350H-CAL	E4.4
MMP350H-M	E4.4
MMP350H-M316	E4.4
MMP350H-MAL	E4.4
MMP350HW54-MAL	E4.3
MMP350-M	E4.3
MMP350-M316	E4.3
MMP350W17-Q-M	E4.4
MMP350W38-C	E4.3
MMP350W38-C316	E4.3
MMP350W38-M	E4.3
MMP350W38-M316	E4.3
MP150-C	B2.26
MP150-C0	B2.26
MP175-C	B2.26
MP175-C0	B2.26
MP200-C	B2.26
MP200-C0	B2.26
MP250-C	B2.26
MP250-C0	B2.26
MP250W175-C	B2.26
MP350-C	B2.26
MP350-C0	B2.26
MPI588T	G1.4
MPMH38-L0	B2.19
MPMS19-C0	B2.19
MPMS25-C0	B2.19
MPMWH32-L0	B2.19
MPSI588T	G1.4
MPSIV56XT	G1.4
MPWM-H56-Q	B3.25
MRS1.5H-L4	B3.18
MRS1.5LH-L4	B3.18
MRS1S-C4	B3.18
MRS2H-L4	B3.18
MRS2LH-L4	B3.18
MRS2S-C4	B3.18
MRS4H-L4	B3.18
MRS4LH-L4	B3.18
MRS4S-C4	B3.18
MRS6H-L4	B3.18
MRS6LH-L4	B3.18
MRS6S-C4	B3.18
MRT1.5DS-C4	B3.17
MRT1.5H-L4	B3.17
MRT1.5LH-L4	B3.17
MRT1S-C4	B3.17
MRT2.5DLH-L4	B3.17
MRT2.5DS-C4	B3.17
MRT2DH-L4	B3.17
MRT2H-L4	B3.17
MRT2LH-L4	B3.17
MRT2S-C4	B3.17
MRT4DH-L4	B3.17
MRT4H-L4	B3.17
MRT4LH-L4	B3.17
MRT4S-C4	B3.17
MRT6H-L4	B3.17
MRT6LH-L4	B3.17
MRT6S-C4	B3.17
MS2W38T15-L4	B3.21
MS4W38T15-L4	B3.21
MS4W50T15-L4	B3.21
MS4W63T15-L4	B3.21
MS4W75T30-Q2	B3.21
MS6W38T15-L4	B3.21
MS6W50T15-L4	B3.21
MS6W63T15-L4	B3.21
MS6W75T30-Q2	B3.21
MS8W38T15-L4	B3.21
MS8W50T15-L4	B3.21
MS8W63T15-L4	B3.21
MS8W75T30-Q2	B3.21
MS10W38T15-L4	B3.21
MS10W50T15-L4	B3.21
MS10W63T15-L4	B3.21
MS10W75T30-Q2	B3.21
MS12W75T30-Q6	B3.21
MS14W75T30-Q6	B3.21
MS3367-1-0	B1.90
MS3367-1-1	B1.90
MS3367-1-2	B1.90
MS3367-1-3	B1.90
MS3367-1-4	B1.90
MS3367-1-5	B1.91
MS3367-1-6	B1.91
MS3367-1-7	B1.91
MS3367-1-8	B1.91
MS3367-1-9	B1.91
MS3367-1-11	B1.91
MS3367-1-12	B1.91
MS3367-1-15	B1.91
MS3367-1-16	B1.91
MS3367-2-0	B1.91
MS3367-2-1	B1.91
MS3367-2-2	B1.91
MS3367-2-3	B1.91
MS3367-2-4	B1.91
MS3367-2-5	B1.91
MS3367-2-6	B1.91

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Part Number Index

Part Number	Page Number
MS3367-2-7	B1.91
MS3367-2-8	B1.91
MS3367-2-9	B1.91
MS3367-2-11	B1.91
MS3367-2-12	B1.91
MS3367-2-15	B1.91
MS3367-3-0	B1.91
MS3367-3-1	B1.91
MS3367-3-2	B1.91
MS3367-3-3	B1.91
MS3367-3-4	B1.91
MS3367-3-5	B1.91
MS3367-3-6	B1.91
MS3367-3-9	B1.91
MS3367-3-11	B1.91
MS3367-3-12	B1.91
MS3367-3-15	B1.91
MS3367-4-0	B1.91
MS3367-4-1	B1.91
MS3367-4-2	B1.91
MS3367-4-3	B1.91
MS3367-4-4	B1.91
MS3367-4-5	B1.91
MS3367-4-6	B1.91
MS3367-4-7	B1.91
MS3367-4-8	B1.91
MS3367-4-9	B1.91
MS3367-4-11	B1.91
MS3367-4-12	B1.91
MS3367-4-15	B1.91
MS3367-4-16	B1.91
MS3367-5-0	B1.92
MS3367-5-1	B1.92
MS3367-5-2	B1.92
MS3367-5-3	B1.92
MS3367-5-4	B1.92
MS3367-5-5	B1.92
MS3367-5-6	B1.92
MS3367-5-7	B1.92
MS3367-5-8	B1.92
MS3367-5-9	B1.92
MS3367-5-11	B1.92
MS3367-5-12	B1.92
MS3367-5-15	B1.92
MS3367-6-9	B1.92
MS3367-6-11	B1.92
MS3367-7-0	B1.92
MS3367-7-1	B1.92
MS3367-7-2	B1.92
MS3367-7-3	B1.92
MS3367-7-4	B1.92
MS3367-7-5	B1.92
MS3367-7-6	B1.92
MS3367-7-7	B1.92
MS3367-7-8	B1.92
MS3367-7-9	B1.92
MS3367-7-11	B1.92
MS3367-7-12	B1.92
MS3367-7-15	B1.92
MS3367-8-9	B1.92
MS3367-8-11	B1.92
MS3367-9-9	B1.92
MS3367-9-11	B1.92
MS3367-11-9	B1.92
MS3367-11-11	B1.92
MS3367-14-9	B1.92
MS3367-20-9	B1.92
MS3367-21-9	B1.92
MS3367-22-9	B1.92
MS3367-23-9	B1.92
MS3367-24-9	B1.92
MS3367-25-9	B1.92
MS3367-29-9	B1.92
MS3367-30-9	B1.92
MS3367-30-11	B1.92
MS3367-31-9	B1.92
MS3367-32-1	B1.92
MS3367-32-2	B1.92
MS3367-32-3	B1.92
MS3367-32-4	B1.92
MS3367-32-5	B1.92
MS3367-32-6	B1.92
MS3367-32-7	B1.92
MS3367-32-9	B1.93
MS3367-33-9	B1.93
MS3367-33-11	B1.93
MS3367-34-2	B1.93
MS3367-34-3	B1.93
MS3367-34-4	B1.93
MS3367-34-6	B1.93
MS3367-34-8	B1.93
MS3367-34-9	B1.93
MS3367-35-9	B1.93
MS3367-36-9	B1.93
MS3367-36-11	B1.93
MS3367-36-12	B1.93
MS3367-37-9	B1.93
MS3367-37-11	B1.93
MS3367-38-9	B1.93
MS3367-38-11	B1.93
MS3367-39-9	B1.93
MS3367-40-9	B1.93
MS3367-40-11	B1.93
MS3367-41-9	B1.93
MS3367-41-11	B1.93
MS3368-1-2A	B1.93
MS3368-1-3A	B1.93
MS3368-1-4A	B1.93
MS3368-1-5A	B1.93
MS3368-1-6A	B1.93
MS3368-1-8A	B1.93
MS3368-1-9A	B1.93
MS3368-1-9B	B1.93
MS3368-2-2A	B1.93
MS3368-2-4A	B1.93
MS3368-2-6A	B1.93
MS3368-2-9A	B1.93
MS3368-2-9B	B1.93
MS3368-3-4C	B1.93
MS3368-3-9C	B1.93
MS3368-4-4D	B1.93
MS3368-4-9D	B1.93
MS3368-5-1E	B1.93
MS3368-5-2E	B1.93
MS3368-5-3E	B1.93
MS3368-5-4E	B1.93
MS3368-5-5E	B1.93
MS3368-5-6E	B1.93
MS3368-5-7E	B1.93
MS3368-5-8E	B1.93
MS3368-5-9E	B1.93
MS90387-1	B1.93
MS90387-2	B1.93
MS90387-4	B1.93
MSBW38-C4	B3.23
MSBW50-C4	B3.23
MSBW63-C4	B3.23
MSBW75-C2	B3.23
MSC2W38T15-L6	B3.22
MSC4W38T15-L6	B3.22
MSC4W50T15-L6	B3.22
MSC4W63T15-L6	B3.22
MSC6W38T15-L6	B3.22
MSC6W50T15-L6	B3.22
MSC6W63T15-L6	B3.22
MSC8W38T15-L6	B3.22
MSC8W50T15-L6	B3.22
MSC8W63T15-L6	B3.22
MSC10W38T15-L6	B3.22
MSC10W50T15-L6	B3.22
MSC10W63T15-L6	B3.22
MSCNW38T15-QR6	B3.23
MSCNW50T15-QR6	B3.23
MSCNW63T15-QR6	B3.23
MSG-1.3-C	C4.7
MSGV-1.3-C	C4.7
MSPT-1.3	C4.7
MSW38T15-CR4	B3.23
MSW50T15-CR4	B3.23
MSW63T15-C4	B3.23
MSW75T30-CR2	B3.23
MT1D-Q	E4.5
MT125S-Q	E4.4
MT150D-Q	E4.5
MT172-C	E4.4
MT172-C316	E4.4
MT172-M	E4.4
MT172W38-C	E4.4, E5.69
MT172W38-M	E4.4
MT206W119A-Q	E4.4
MT213D-Q	E4.5
MT350-C	E4.4
MT350-C316	E4.4
MT350-M	E4.4
MT350W17-D-4HL	E4.4
MT350W17-Q	E4.4
MT350W17-Q-M	E4.4
MT350W38-M316	E4.4
MTB1D-Q	E4.5, E5.69
MTB150D-Q	E4.5
MTB213D-Q	E4.5
MTHCEH-C316	B3.15
MTHCH-C316	B3.15
MTHCSH-C316	B3.15
MTHEH-C	B3.15
MTHEH-C316	B3.15

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
MTHH-C	B3.15
MTHH-C316	B3.15
MTHS-C	B3.15
MTHS-C316	B3.15
MTHSH-C	B3.15
MTHSH-C316	B3.15
MTM1H10-C	B3.25
MTM1H25-C	B3.25
MTM1H-C	B3.25
MTM2H-Q	B3.26
MTMBH-Q	B3.27
MTP1H-E6-C	B2.14
MTP1H-E10-C	B2.14
MTP1S-E6-C	B2.14
MTP1S-E10-C	B2.14
MTP2H-E6-C	B2.14
MTP2H-E10-C	B2.14
MTP2S-E6-C	B2.14
MTP2S-E10-C	B2.14
MTP3H-E6-C	B2.14
MTP3H-E10-C	B2.14
MTP3S-E6-C	B2.14
MTP3S-E10-C	B2.14
MTP4H-E6-C	B2.14
MTP4H-E10-C	B2.14
MTP4S-E6-C	B2.14
MTP4S-E10-C	B2.14
MTP5H-E6-C	B2.14
MTP5H-E10-C	B2.14
MTP5S-E6-C	B2.14
MTP5S-E10-C	B2.14
MTP6H-E6-C	B2.14
MTP6H-E10-C	B2.14
MTPC1H-E10-C39	B2.13
MTPC2H-E10-C39	B2.13
MTPC3H-E10-C39	B2.13
MTPC4H-E10-C39	B2.13
MTPC5H-E10-C39	B2.13
MTPC6H-E10-C39	B2.13
MTPC7H-E10-C39	B2.13
N025X075CBT	E2.6
N025X075FJJ	E2.27
N025X125CBT	E2.6
N025X125FJJ	E2.27
N025X150CBT	E2.6
N025X150FJJ	E2.27
N025X175CBT	E2.6
N050X075C1C	E1.5
N050X075C1T	E2.7
N050X075C2C	E1.5
N050X075C2T	E2.7
N050X075CBC	E1.5
N050X075CBT	E2.6
N050X075FJJ	E2.27
N050X100CBT	E2.6
N050X125C1C	E1.5
N050X125C1T	E2.7
N050X125C2C	E1.5
N050X125C2T	E2.7
N050X125CBT	E2.6
N050X125FJJ	E2.27
N050X150C1T	E2.7
N050X150C2T	E2.7
N050X150CBC	E1.5
N050X150CBT	E2.6
N050X150FJJ	E2.27
N050X175CBT	E2.6
N100X075C1C	E1.5
N100X075C1T	E2.7
N100X075C2C	E1.5
N100X075C2T	E2.7
N100X075CBC	E1.5
N100X075CBT	E2.6
N100X075FJJ	E2.27
N100X125C1C	E1.5
N100X125C1T	E2.7
N100X125C2C	E1.5
N100X125C2T	E2.7
N100X125CBC	E1.5
N100X125CBT	E2.6
N100X125FJJ	E2.27
N100X150C1T	E2.7
N100X150C2T	E2.7
N100X150CBC	E1.5
N100X150CBT	E2.6
N100X150FJJ	E2.27
N100X175CBC	E1.5
N100X175CBT	E2.6
N150X075CBT	E2.6
N3817	E5.24
N4802	E5.6
N4804	E5.23
N4805	E5.30
N4809	E5.30
N4811	E5.7
N4813	E5.7
N4814	E5.23
N4816	E5.27
N4825	E5.30
N4826	E5.6
N5813	E5.7
N7008	E5.6
N7009	E5.6
N7010	E5.6
N7011	E5.7
N7022	E5.7
N7023	E5.7
N7037	E5.7
N7043	E5.6
N7044	E5.6
N7045	E5.6
N7046	E5.6
N7047	E5.6
N7048	E5.7
N7049	E5.7
N7051	E5.6
N7052	E5.7
N7053	E5.7
N7054	E5.7
N7055	E5.7
N7056	E5.7
N7057	E5.6
N7058	E5.7
N7059	E5.7
N7064	E5.6
N7065	E5.6
N7066	E5.6
N7067	E5.6
N7068	E5.7
N7069	E5.7
N7070	E5.7
N7071	E5.7
N7072	E5.7
N7073	E5.7
N7074	E5.7
N7102	E5.10
N7103	E5.10
N7109	E5.10
N7141	E5.15
N7190	E5.20
N7238	E5.23
N7242	E5.23
N7243	E5.23
N7264	E5.23
N7265	E5.23
N7266	E5.23
N7285	E5.25
N7286	E5.25
N7287	E5.25
N7296	E5.26
N7316	E5.27
N7317	E5.27
N7318	E5.27
N7319	E5.27
N7320	E5.27
NBA1/0-120	D2.90
NBA350-12	D2.89
NBA350-24	D2.89
NBA350-30	D2.89
NBA350-36	D2.89
NBA350-42	D2.89
NBBRACKET	D2.90
NBISO-KIT	D2.89
NC1.5WH6	C1.28
NC1WH6	C1.28
NC2WH6	C1.28
NC3WH6	C1.28
NC4WH6	C1.28
NC.5WH6	C1.28
NC25LG2	C1.27
NC37LG2	C1.27
NC50LG2	C1.27
NC75LG2	C1.27
NC100LG2	C1.27
NE1.5X1.5WH6	C1.28
NE1.5X2WH6	C1.28
NE1.5X2WH6-A	C1.36
NE1.5X3WH6	C1.28
NE1.5X4WH6	C1.28
NE1X1.5WH6	C1.28
NE1X1WH6	C1.28
NE1X2WH6	C1.28
NE1X3WH6	C1.28
NE1X4WH6	C1.28
NE2X1WH6	C1.28
NE2X2WH6	C1.28

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Part Number Index

Part Number	Page Number
NE2X2WH6-A	C1.36
NE2X3WH6	C1.28
NE2X4WH6	C1.28
NE3X1WH6	C1.28
NE3X2WH6	C1.28
NE3X3WH6	C1.28
NE3X4WH6	C1.28
NE3X5WH6	C1.28
NE4X2WH6	C1.28
NE4X2WH6-A	C1.36
NE4X3WH6	C1.28
NE4X3WH6-A	C1.36
NE4X4WH6	C1.28
NE4X4WH6-A	C1.36
NE4X5WH6	C1.28
NE.5X1WH6	C1.28
NE.5X.5WH6	C1.28
NK^HSFIWY	F.4
NK2BXIW-A	F.6
NK2HSRFIW	F.4
NK2RMFIW	F.5
NK4BXIW-AY	F.6
NK4HSRFIW	F.4
NK4MFABL	F.5
NK4MFIW	F.5
NK4RMFIW	F.5
NK4VSF	F.4
NK4VSRFIW	F.4
NK5EPC	F.2
NK5EPPG12WY	F.3
NK5EPPG24Y	F.3
NK5EPPG48Y	F.3
NK6APC	F.2
NK6BXIW-AY	F.6
NK6PC	F.2
NK6PPG12WY	F.3
NK6PPG24Y	F.3
NK6PPG48Y	F.3
NK6X88MIW	F.2
NK6X88MIW-Q	F.2
NK6XPPG24Y	F.3
NK6XPPG48Y	F.3
NK688MIW	F.2
NK688MIW-Q	F.2
NK2106MFIW	F.5
NK4106MFIW	F.5
NKA5EPPG24Y	F.3
NKA5EPPG48Y	F.3
NKA6PPG24Y	F.3
NKA6PPG48Y	F.3
NKA6XPPG24Y	F.3
NKA6XPPG48Y	F.3
NKBMIW-X	F.6
NKBNCMIWY	F.6
NKF	F.4
NKFIW	F.6
NK**FIWY	F.4
NK*FNIW	F.4
NKFP12W	F.3
NKFP24Y	F.3
NKFP48Y	F.3
NKHDMIIW	F.6
NKP5E88MIW	F.2
NKP5E88MIW-Q	F.2
NKPP24FMY	F.3
NKPP48FMY	F.3
NKPPA24FMY	F.3
NKPPA48FMY	F.3
NKSPB	F.6
NKUSBAAIW	F.6
NNC25X25LG2	C1.27
NNC25X37LG2	C1.27
NNC25X50LG2	C1.27
NNC25X75LG2	C1.27
NNC37X37LG2	C1.27
NNC37X50LG2	C1.27
NNC37X75LG2	C1.27
NNC50DWH2	C1.27, C1.31
NNC50X50LG2	C1.27
NNC50X75LG2	C1.27
NNC50X100LG2	C1.27
NNC75DWH2	C1.27, C1.31
NNC75X75LG2	C1.27
NNC100X50LG2	C1.27
NNC100X75LG2	C1.27
NNC100X100LG2	C1.27
OCF3IW-E	C2.6
OCF5IW-E	C2.6
OCF10IW-X	C2.6
OCFC3IW-X	C2.7
OCFC5IW-X	C2.7
OCFC10IW-X	C2.7
OCFX3IW-X	C2.6
OCFX5IW-X	C2.6
OCFX10IW-X	C2.6, C2.8
P2-10RHT6-X	D1.17
P2-10R-X	D1.18
P2-12RHT6-X	D1.17
P2-12R-X	D1.18
P2-14RHT6-X	D1.17
P2-14R-X	D1.18
P2-38RHT6-X	D1.17
P2-38R-X	D1.18
P2-56RHT6-X	D1.17
P2-56R-X	D1.18
P4-10R-E	D1.18
P4-10RHT6-E	D1.17
P4-12R-E	D1.18
P4-12RHT6-E	D1.17
P4-14R-E	D1.18
P4-14RHT6-E	D1.17
P4-38R-E	D1.18
P4-38RHT6-E	D1.17
P4-56R-E	D1.18
P4-56RHT6-E	D1.17
P6-8R-E	D1.18
P6-8RHT6-E	D1.17
P6-10R-E	D1.18
P6-10RHT6-E	D1.17
P6-12R-E	D1.18
P6-12RHT6-E	D1.17
P6-14R-E	D1.18
P6-14RHT6-E	D1.17
P6-38R-E	D1.18
P6-38RHT6-E	D1.17
P6-56R-E	D1.18
P6-56RHT6-E	D1.17
P8-8RHT6-Q	D1.17
P8-8RNHT6-Q	D1.17
P8-8RN-Q	D1.18
P8-8R-Q	D1.18
P8-10RHT6-Q	D1.17
P8-10RNHT6-Q	D1.17
P8-10R-Q	D1.18
P8-12RHT6-Q	D1.17
P8-12R-Q	D1.18
P8-14RHT6-Q	D1.17
P8-14R-Q	D1.18
P8-38RHT6-Q	D1.17
P8-38R-Q	D1.18
P8-56RHT6-Q	D1.17
P8-56R-Q	D1.18
P10-6F-L	D1.27
P10-6LF-L	D1.28
P10-6RHT6-L	D1.17
P10-6R-L	D1.16
P10-8F-L	D1.27
P10-8LF-L	D1.28
P10-8RHT6-L	D1.17
P10-8R-L	D1.16
P10-10FF-L	D1.28
P10-10F-L	D1.27
P10-10LF-L	D1.28
P10-10RHT6-L	D1.17
P10-10R-L	D1.16
P10-12R-L	D1.16
P10-14F-L	D1.27
P10-14LF-L	D1.28
P10-14RHT6-L	D1.17
P10-14R-L	D1.16
P10-38R-L	D1.16
P10-56R-L	D1.16
P10-P55-L	D1.45
P12-6HDR-L	D1.18
P12-8HDR-L	D1.18
P12-10HDR-L	D1.18
P12-14HDR-L	D1.18
P12-38HDR-L	D1.18
P12-56HDR-L	D1.18
P14-4R-C	D1.16
P14-6F-C	D1.27
P14-6FF-C	D1.28
P14-6FN-C	D1.27
P14-6LF-C	D1.28
P14-6LFW-C	D1.28
P14-6R-C	D1.16
P14-6RHT6-C	D1.17
P14-8F-C	D1.27
P14-8FF-C	D1.28
P14-8LF-C	D1.28
P14-8R-C	D1.16
P14-8RHT6-C	D1.17
P14-10F-C	D1.27
P14-10FN-C	D1.27
P14-10LF-C	D1.28
P14-10LFN-C	D1.28

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
P14-10R-C	D1.16
P14-10RHT6-C	D1.17
P14-12R-L	D1.16
P14-14F-C	D1.27
P14-14R-C	D1.16
P14-38R-C	D1.16
P14-56R-C	D1.16
P14-P47-C	D1.45
P18-4R-C	D1.16
P18-6F-C	D1.27
P18-6FN-C	D1.27
P18-6LF-C	D1.28
P18-6LFW-C	D1.28
P18-6R-C	D1.16
P18-6RHT6-C	D1.17
P18-6RN-C	D1.16
P18-8F-C	D1.27
P18-8FF-C	D1.28
P18-8LF-C	D1.28
P18-8R-C	D1.16
P18-8RHT6-C	D1.17
P18-10F-C	D1.27
P18-10FN-C	D1.27
P18-10LF-C	D1.28
P18-10LFN-C	D1.28
P18-10R-C	D1.16
P18-10RHT6-C	D1.17
P18-12R-C	D1.16
P18-14F-C	D1.27
P18-14R-C	D1.16
P18-38R-C	D1.16
P18-56R-C	D1.16
P18-P47-C	D1.45
P22-2R-C	D1.16
P22-4F-C	D1.27
P22-4R-C	D1.16
P22-6F-C	D1.27
P22-6R-C	D1.16
P22-8R-C	D1.16
P22-10R-C	D1.16
P32W2A2-50-7	C1.35
P32W2A2-50-72	C1.35
P32W2A2-75-7	C1.35
P32W2A2-75-72	C1.35
PBB0001	E5.97
PBB0002	E5.97
PBB0003	E5.90
PBB0004	E5.90
PBB0006	E5.96
PBB0007	E5.96
PBB0009	E5.96
PBB0011	E5.96
PBB0013	E5.96
PBB0015	E5.96
PBB0017	E5.90
PBB0018	E5.94
PBB0019	E5.94
PBB0020	E5.94
PBB0021	E5.94
PBB0022	E5.90
PBB0023	E5.92
PBB0024	E5.92
PBB0025	E5.90
PBB0026	E5.96
PBB0027	E5.96
PBB0028	E5.96
PBB0029	E5.92
PBB0030	E5.92
PBB0031	E5.92
PBB0032	E5.92
PBB0033	E5.92
PBB0034	E5.92
PBB0035	E5.92
PBB0036	E5.92
PBB0037	E5.92
PBB0038	E5.92
PBB0039	E5.92
PBB0040	E5.92
PBB0041	E5.92
PBB0042	E5.92
PBB0043	E5.97
PBB0045	E5.97
PBB0049	E5.97
PBB0057	E5.96
PBB0058	E5.93
PBB0065	E5.90
PBB0066	E5.90
PBB0067	E5.90
PBB0068	E5.90
PBB0069	E5.90
PBB0070	E5.90
PBB0071	E5.90
PBB0072	E5.90
PBB0073	E5.90
PBB0074	E5.90
PBB0075	E5.93
PBB0076	E5.92
PBB0077	E5.90
PBB0078	E5.95
PBB0079	E5.95
PBB0080	E5.81
PBB0081	E5.87
PBB0082	E5.87
PBB0083	E5.87
PBB0084	E5.87
PBB0085	E5.87
PBB0086	E5.87
PBB0087	E5.93
PBB0088	E5.93
PBB0089	E5.93
PBB0090	E5.93
PBB0091	E5.93
PBB0092	E5.93
PBB0093	E5.93
PBB0094	E5.93
PBB0095	E5.93
PBB0096	E5.93
PBB0097	E5.93
PBB0098	E5.93
PBB0099	E5.93
PBB0100	E5.93
PBB0101	E5.93
PBB0102	E5.93
PBB0103	E5.93
PBB0104	E5.93
PBB0105	E5.93
PBB0106	E5.93
PBB0107	E5.93
PBB0108	E5.93
PBB0109	E5.96
PBB0115	E5.96
PBB0119	E5.96
PBB0123	E5.96
PBB0124	E5.97
PBB0125	E5.97
PBB0126	E5.90
PBB0127	E5.94
PBB0128	E5.94
PBB0129	E5.94
PBB0130	E5.94
PBB0131	E5.94
PBB0132	E5.94
PBB0133	E5.94
PBB0134	E5.94
PBB0135	E5.94
PBB0136	E5.94
PBB0137	E5.94
PBB0138	E5.96
PBB0148	E5.95
PBB0149	E5.95
PBB0150	E5.95
PBB0152	E5.95
PBB0164	E5.96
PBB0165	E5.90
PBB0166	E5.90
PBB0167	E5.90
PBB0168	E5.90
PBB0169	E5.90
PBB0170	E5.90
PBB0171	E5.90
PBB0172	E5.97
PBB0173	E5.92
PBB0174	E5.92
PBB0175	E5.92
PBB0177	E5.97
PBB0178	E5.97
PBB0179	E5.97
PBB0181BLK	E5.97
PBB0181STL	E5.97
PBB0181YEL	E5.97
PBMS-H25-C	B2.18
PBMS-H25-C14	B2.18
PBMS-H25-M0	B2.18
PBMS-H25-M30	B2.18
PBMSL-H25-M30	B2.18
PBSC1-X	B2.49
PBSC3-X	B2.49
PBSC6-X	B2.49
PBSC12-X	B2.49
PC038-H25D-C0	B2.36
PC050-H25D-C0	B2.36
PC062-H25D-C0	B2.36
PC075-H25D-C0	B2.36
PC087-H25D-C0	B2.36
PC100-H25D-C0	B2.36
PC112-H25D-C0	B2.36

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Part Number Index

Part Number	Page Number
PC125-H25D-C0	B2.36
PCA07-0	E3.10
PCA07-0-9	E3.10
PCA07-9	E3.10
PCA07-A	E3.10
PCA07-A-J	E3.10
PCA07-K-T	E3.10
PCA07-MIN	E3.10
PCA07-PLS	E3.10
PCA07-U-Z	E3.10
PCA07-Z	E3.10
PCA11-0	E3.11
PCA11-0-9	E3.11
PCA11-9	E3.11
PCA11-A	E3.11
PCA11-A-J	E3.11
PCA11-K-T	E3.11
PCA11-MIN	E3.11
PCA11-PLS	E3.11
PCA11-U-Z	E3.11
PCA11-Z	E3.11
PCA13-0	E3.11
PCA13-0-9	E3.11
PCA13-9	E3.11
PCA13-A	E3.11
PCA13-A-J	E3.11
PCA13-K-T	E3.11
PCA13-MIN	E3.11
PCA13-PLS	E3.11
PCA13-U-Z	E3.11
PCA13-Z	E3.11
PCA18-0	E3.11
PCA18-0-9	E3.11
PCA18-9	E3.11
PCA18-A	E3.11
PCA18-A-J	E3.11
PCA18-K-T	E3.11
PCA18-MIN	E3.11
PCA18-PLS	E3.11
PCA18-U-Z	E3.11
PCA18-Z	E3.11
PCA23-0	E3.11
PCA23-0-3	E3.11
PCA23-4-7	E3.11
PCA23-8-9	E3.11
PCA23-9	E3.11
PCA23-A	E3.11
PCA23-A-D	E3.11
PCA23-E-H	E3.11
PCA23-I-L	E3.11
PCA23-MIN	E3.11
PCA23-M-P	E3.11
PCA23-PLS	E3.11
PCA23-Q-T	E3.11
PCA23-U-X	E3.11
PCA23-Y-Z	E3.11
PCA23-Z	E3.11
PCL037-*	E5.29
PCL037-0-9	E5.29
PCL037-A-Z	E5.29
PCL062-*	E5.29
PCL062-0-9	E5.29
PCL062-A-Z	E5.29
PCL100-*	E5.29
PCL100-0-9	E5.29
PCL100-A-J	E5.29
PCL100-K-T	E5.29
PCL100-U-Z	E5.29
PCL200-*	E5.29
PCL200-0-9	E5.29
PCL200-A-J	E5.29
PCL200-K-T	E5.29
PCL200-U-Z	E5.29
PCL300-*	E5.29
PCLCP037-0-9	E5.29
PCLCP037-A-Z	E5.29
PCLCP062-0-9	E5.29
PCLCP062-A-Z	E5.29
PCLCP100-0-9	E5.29
PCLCP100-A-Z	E5.29
PCLCP200-0-9	E5.29
PCLCP200-A-Z	E5.29
PCLCP300-0-9	E5.29
PCLCP300-A-Z	E5.29
PCM-0	E3.4
PCM-0-9	E3.4
PCM-1-3	E3.4
PCM-1-4	E3.4
PCM-1-5	E3.4
PCM-1-6	E3.4
PCM-1-8	E3.4
PCM-1-9	E3.4
PCM-1-10	E3.4
PCM-1-12	E3.4
PCM-1-16	E3.4
PCM-1-18	E3.4
PCM-1-33	E3.4
PCM-1L1	E3.6
PCM-1L3	E3.6
PCM-1T1	E3.6
PCM-1T3	E3.6
PCM-2L1	E3.6
PCM-2L3	E3.6
PCM-3L1	E3.6
PCM-3L3	E3.6
PCM-3T1	E3.6
PCM-3T3	E3.6
PCM-4L1	E3.6
PCM-4L3	E3.6
PCM-19-36	E3.4
PCM-34-66	E3.4
PCM-67-99	E3.4
PCM-99	E3.4
PCM-100	E3.4
PCM-100-124	E3.4
PCM-125-149	E3.4
PCM-150-174	E3.4
PCM-175-199	E3.4
PCM-200-224	E3.4
PCM-202	E3.4
PCM-225-249	E3.4
PCM-250-274	E3.4
PCM-275-299	E3.4
PCM-300-324	E3.4
PCM-325-349	E3.4
PCM-350-374	E3.4
PCM-375-399	E3.4
PCM-400-424	E3.4
PCM-425-449	E3.4
PCM-450-474	E3.4
PCM-475-499	E3.4
PCM-500-524	E3.4
PCM-A	E3.5
PCM-A1	E3.5
PCM-A4	E3.5
PCM-A-Z	E3.5
PCM-A-Z-0-9	E3.5
PCM-B1	E3.5
PCMB-1	E3.2
PCMB-2	E3.2
PCMB-3	E3.2
PCMB-4	E3.2
PCM-B5	E3.5
PCMB-5	E3.2
PCMB-6	E3.2
PCMB-7	E3.2
PCMB-8	E3.2
PCMB-9	E3.2
PCMB-11	E3.2
PCMB-12	E3.2
PCMB-13	E3.2
PCMB-14	E3.2
PCMB-15	E3.2
PCMB-16	E3.2
PCMB-25	E3.2
PCM-BLK	E3.6
PCM-BRN	E3.6
PCM-C1	E3.5
PCM-C4	E3.5
PCMCP-1-25	E3.7
PCMCP-26-50	E3.7
PCMCP-51-75	E3.7
PCMCP-76-100	E3.7
PCMCP-101-125	E3.7
PCMCP-126-150	E3.7
PCMCP-A-Z	E3.7
PCM-DBL	E3.6
PCM-DGN	E3.6
PCM-E1	E3.5
PCM-E3	E3.5
PCM-F1	E3.5
PCM-F4	E3.5
PCM-GRY	E3.6
PCMH-0	E3.4
PCM-H1	E3.5
PCM-H5	E3.5
PCMH-25	E3.4
PCM-L1	E3.5
PCM-L5	E3.5
PCM-LBL	E3.6
PCM-LGN	E3.6
PCM-M1	E3.5
PCM-M2	E3.5
PCM-ORN	E3.6
PCM-P1	E3.5
PCM-P3	E3.5

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PCM-PNK	E3.6
PCM-PUR	E3.6
PCM-R1	E3.5
PCM-R5	E3.5
PCM-RED	E3.6
PCM-S1	E3.5
PCM-S5	E3.5
PCM-T1	E3.5
PCM-T9	E3.5
PCM-TAN	E3.6
PCM-WHT	E3.6
PCM-X1	E3.5
PCM-X4	E3.5
PCM-YEL	E3.6
PCM-Z	E3.5
PCSB2/0-2-12	D2.93
PCSB2/0-2S-6	D2.92
PCSB2/0-3-6	D2.93
PCSB2/0-3S-6Y	D2.92
PCSB2/0-4-6	D2.93
PCSB2/0-4S-6Y	D2.92
PCSB2/0-5-6	D2.93
PCSB2/0-5S-4Y	D2.92
PCSB2/0-6-6	D2.93
PCSB2/0-6S-4Y	D2.92
PCSB2/0-8-4	D2.93
PCSB2/0-8S-3Y	D2.92
PCSB2/0-10-2Y	D2.93
PCSB2/0-10S-2Y	D2.92
PCSB2/0-12-2Y	D2.93
PCSB2/0-12S-1Y	D2.92
PCSB2/0-14-1Y	D2.94
PCSB2/0-14S-1Y	D2.92
PCSB4-2-12Y	D2.93
PCSB4-2S-12Y	D2.92
PCSB4-3-12Y	D2.93
PCSB4-3S-12Y	D2.92
PCSB4-4-6Y	D2.93
PCSB4-4S-6Y	D2.92
PCSB4-5-6Y	D2.93
PCSB4-5S-6Y	D2.92
PCSB4-6-6Y	D2.93
PCSB4-6S-6Y	D2.92
PCSB4-8-4Y	D2.93
PCSB4-10-4Y	D2.93
PCSB4-10S-4Y	D2.92
PCSB4-12-3Y	D2.93
PCSB4-12S-3Y	D2.92
PCSB4-14-2Y	D2.93
PCSB4-14S-2Y	D2.92
PCSB250-2-6Y	D2.94
PCSB250-2S-6Y	D2.92
PCSB250-3-6Y	D2.94
PCSB250-3S-6Y	D2.92
PCSB250-4-6Y	D2.94
PCSB250-4S-6Y	D2.92
PCSB250-5-4Y	D2.94
PCSB250-5S-4Y	D2.92
PCSB250-6-4Y	D2.94
PCSB250-6S-4Y	D2.92
PCSB250-8-3Y	D2.94
PCSB250-8S-3Y	D2.92
PCSB250-10-2Y	D2.94
PCSB250-10S-2Y	D2.92
PCSB250-12-2Y	D2.94
PCSB250-12S-2Y	D2.92
PCSB250-14-1Y	D2.94
PCSB250-14S-1Y	D2.92
PCSB250-AP-6	D2.91
PCSB350-2-4	D2.94
PCSB350-2S-4Y	D2.92
PCSB350-3-4	D2.94
PCSB350-3S-4Y	D2.92
PCSB350-4-3	D2.94
PCSB350-4S-3Y	D2.92
PCSB350-5-3	D2.94
PCSB350-5S-3Y	D2.92
PCSB350-6-2	D2.94
PCSB350-6S-2Y	D2.92
PCSB350-8-2	D2.94
PCSB350-8S-2Y	D2.92
PCSB350-10-2Y	D2.94
PCSB350-10S-2Y	D2.92
PCSB350-12-1Y	D2.94
PCSB350-12S-1Y	D2.92
PCSB350-14-1Y	D2.94
PCSB350-14S-1Y	D2.92
PCSB600-2-4Y	D2.94
PCSB600-2S-4Y	D2.93
PCSB600-3-3Y	D2.94
PCSB600-3S-3Y	D2.93
PCSB600-4-2Y	D2.94
PCSB600-4S-2Y	D2.93
PCSB600-5S-2Y	D2.93
PCSB600-6-2Y	D2.94
PCSB600-6S-2Y	D2.93
PCSB600-8-2Y	D2.94
PCSB600-8S-2Y	D2.93
PCSB600-10-1Y	D2.94
PCSB600-10S-1Y	D2.93
PCSB600-12-1Y	D2.94
PCSB600-12S-1Y	D2.93
PCSB600-14-1Y	D2.94
PCSB600-14S-1Y	D2.93
PCSB600-AP-4	D2.91
PCSB750-2-2Y	D2.94
PCSB750-2S-1	D2.93
PCSB750-3-2Y	D2.94
PCSB750-4-2Y	D2.94
PCSB750-5-1Y	D2.94
PCSB750-6-1Y	D2.94
PCSB750-8-1Y	D2.94
PCSB750-10-1Y	D2.94
PCSBMT2/0-4-3Y	D2.97
PCSBMT2/0-4S-3Y	D2.96
PCSBMT2/0-6-2Y	D2.97
PCSBMT2/0-6S-2Y	D2.96
PCSBMT2/0-8-2Y	D2.97
PCSBMT2/0-8S-2Y	D2.96
PCSBMT2/0-10-2Y	D2.97
PCSBMT2/0-10S2Y	D2.96
PCSBMT2/0-12-1Y	D2.97
PCSBMT2/0-12S1Y	D2.96
PCSBMT250-4-2Y	D2.97
PCSBMT250-4S-2Y	D2.96
PCSBMT250-6-2Y	D2.97
PCSBMT250-6S-2Y	D2.96
PCSBMT250-8-2Y	D2.97
PCSBMT250-8S-2Y	D2.96
PCSBMT250-10-2Y	D2.97
PCSBMT250-10S2Y	D2.96
PCSBMT250-12-1Y	D2.97
PCSBMT250-12S1Y	D2.96
PCSBMT350-4-2Y	D2.97
PCSBMT350-4S-2Y	D2.96
PCSBMT350-6-2Y	D2.97
PCSBMT350-6S-2Y	D2.96
PCSBMT350-8-2Y	D2.97
PCSBMT350-8S-2Y	D2.96
PCSBMT350-10-1Y	D2.97
PCSBMT350-10S1Y	D2.96
PCSBMT350-12-1Y	D2.97
PCSBMT350-12S1Y	D2.96
PCSBMT600-4-2Y	D2.97
PCSBMT600-4S-2Y	D2.96
PCSBMT600-6-2Y	D2.97
PCSBMT600-6S-2Y	D2.96
PCSBMT600-8-2Y	D2.97
PCSBMT600-8S-2Y	D2.96
PCSBMT600-10-1Y	D2.97
PCSBMT600-10S1Y	D2.96
PCSBMT600-12-1Y	D2.97
PCSBMT600-12S1Y	D2.96
PCSH-B-CR	B3.24
PCSLSH-B-CR	B3.24
PCSP0001	E5.12
PCSP0002	E5.12
PCSP0003	E5.12
PCSP0004	E5.12
PCSP0005	E5.12
PCSP0006	E5.12
PCSP0007	E5.12
PCSP0008	E5.12
PCSP0009	E5.12
PCSP0010	E5.12
PCSP0011	E5.12
PCSP0012	E5.12
PCSP0013	E5.12
PCSS-B-CR	B3.24
PCSSH-B-CR	B3.24
PCT-1077-C	E5.41
PCT-1078-C	E5.41
PCT-1080-C	E5.41
PCT-1081-B	E5.41
PCT-1083-C	E5.41
PCT-1084-C	E5.41
PCT-1085-C	E5.41
PCT-1086-B	E5.41
PCT-1087-B	E5.41
PCT-1088-B	E5.41
PCT-1089-B	E5.41
PCT-1090-B	E5.41
PCT-1093-C	E5.41
PCT-1096-B	E5.41
PCT-1101-C	E5.43
PCT-1102-C	E5.43

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PCT-1103-C	E5.43
PCT-1104-C	E5.43
PCT-1105-C	E5.43
PCT-1106-C	E5.43
PCT-1107	E5.43
PCT-1108	E5.43
PCT-1109	E5.43
PCT-1110	E5.43
PCT-1111	E5.43
PCT-1112	E5.43
PCT-1114-C	E5.43
PCT-1115-C	E5.43
PCT-1116-C	E5.43
PCT-1157	E5.42
PCT-1157-Q	E5.42
PCT-1225-C	E5.43
PCV-1PH	E5.17
PCV-3PH	E5.17
PCV-110	E5.17
PCV-115	E5.17
PCV-120	E5.17
PCV-120/208	E5.17
PCV-208	E5.17
PCV-220	E5.17
PCV-230	E5.17
PCV-240	E5.17
PCV-277	E5.17
PCV-277/480	E5.17
PCV-380	E5.17
PCV-415	E5.17
PCV-440	E5.17
PCV-460	E5.17
PCV-480	E5.17
PCV-600	E5.17
PCV-2300	E5.17
PCV-2400	E5.17
PCV-4160	E5.17
PCV-12470	E5.17
PCV-13200	E5.17
PCV-13800	E5.17
PCVB-110Y	E5.17
PCVB-220Y	E5.17
PCVB-277/480Y	E5.17
PCVB-277Y	E5.17
PCVB-440Y	E5.17
PCVB-480Y	E5.17
PCVB-4160Y	E5.17
PCV-BLANK	E5.17
PCV-ES	E5.17
PCV-FA	E5.17
PCV-FO	E5.17
PCV-FOC	E5.17
PCV-MAIN	E5.17
PCV-TELE	E5.17
PCWL-ACC	E5.20
PCWL-BL	E5.20
PCWL-CAL	E5.20
PCWL-CALD	E5.20
PCWL-ICAL	E5.20
PCWL-REJ	E5.20
PDT110	F.6
PDTH110	F.6
PES400	E4.6
PES-S1	E5.53
PESW-*-1Y	E5.30
PESW-*-6Y	E5.30
PESW-*-8Y	E5.30
PESW-*-9Y	E5.30
PESW-*-11Y	E5.30
PESW-A-*	E5.30
PESW-AA-11Y	E5.30
PESW-B-*	E5.30
PESW-C-*	E5.30
PESW-D-*	E5.30
PFM0001	E5.87
PFM1X36	E5.49
PFM0002	E5.87
PFM2X18	E5.83
PFM2X36	E5.49, E5.83
PFM2X60	E5.83
PFM0003	E5.87
PFM3X18	E5.83
PFM3X36	E5.49, E5.83
PFM3X60	E5.83
PFM0004	E5.87
PFM0005	E5.92
PFM0006	E5.92
PFM0007	E5.92
PFM0008	E5.89
PFM0009	E5.89
PFM0010	E5.89
PFM0011	E5.89
PFM0012	E5.89
PFM0013	E5.89
PFM0014	E5.89
PFM0015	E5.89
PFM0016	E5.89
PFM0017	E5.89
PFM0018	E5.89
PFM0019	E5.89
PFM0020	E5.89
PFM0021	E5.89
PFM0022	E5.89
PFM0023	E5.89
PFM0024	E5.89
PFM0025	E5.89
PFM0026	E5.89
PFM0027	E5.89
PFM0028	E5.89
PFM0029	E5.89
PFM0030	E5.89
PFM0031	E5.89
PFM0032	E5.89
PFM0033	E5.89
PFM0034	E5.89
PFM0035	E5.89
PFM0036	E5.89
PFM0037	E5.89
PFM0038	E5.90
PFM0039	E5.90
PFM0040	E5.86
PFM0041	E5.86
PFM0042	E5.86
PFM0043	E5.86
PFM0044	E5.86
PFM0045	E5.86
PFM0046	E5.86
PFM0047	E5.86
PFM0048	E5.89
PFM0049	E5.89
PFM0050	E5.89
PFM0051	E5.89
PFM0052	E5.89
PFM0053	E5.89
PFM0054	E5.88
PFM0055	E5.88
PFM0056	E5.88
PFM0057	E5.88
PFM0058	E5.88
PFM0059	E5.88
PFM0060	E5.88
PFM0061	E5.88
PFM0062	E5.88
PFM0063	E5.89
PFM0064	E5.89
PFM0065	E5.89
PFM0066	E5.89
PFM0067	E5.89
PFM0068	E5.89
PFM0069	E5.89
PFM0070	E5.89
PFM0071	E5.88
PFM0072	E5.88
PFM0073	E5.88
PFM0074	E5.88
PFM0075	E5.88
PFM0076	E5.88
PFM0077	E5.88
PFM0078	E5.88
PFM0079	E5.88
PFM0080	E5.88
PFM0081	E5.88
PFM0082	E5.88
PFM0083	E5.88
PFM0084	E5.88
PFM0085	E5.88
PFM0086	E5.88
PFM0087	E5.88
PFM0088	E5.88
PFM0089	E5.88
PFM0090	E5.86
PFM0091	E5.86
PFM0092	E5.86
PFM0093	E5.86
PFM0094	E5.86
PFM0095	E5.86
PFM0096	E5.86
PFM0097	E5.86
PFM0103	E5.86
PFM0105	E5.86
PFM0107	E5.86
PFM0108	E5.86
PFM0109	E5.86
PFM0110	E5.86
PFM0111	E5.86
PFM0112	E5.86

Order number of pieces required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PFM0113	E5.86
PFM0114	E5.83
PFM0115	E5.83
PFM0116	E5.83
PFM0243	E5.85
PFM0244	E5.85
PFM0245	E5.85
PFM0246	E5.85
PFM0247	E5.85
PFM0248	E5.85
PFM0249	E5.85
PFM0250	E5.85
PFM0251	E5.85
PFM0266	E5.87
PFM0267	E5.87
PFM0268	E5.87
PFM0269	E5.87
PFM0270	E5.87
PFM0271	E5.87
PFM0328	E5.85
PFM0329	E5.85
PFM0330	E5.85
PFM0331	E5.85
PFM0332	E5.85
PFM0333	E5.85
PFM0597	E5.84
PFM0598	E5.84
PFM0599	E5.84
PFM0600	E5.84
PFM0601	E5.84
PFMA2	E5.85
PFMA3	E5.85
PFMA4	E5.85
PFMC2X18	E5.83
PFMC3X18	E5.83
PFMD2	E5.85
PFMD3	E5.85
PFMD4	E5.85
PFMF6	E5.85
PFMF12	E5.85
PFMH2X100	E5.87
PFMH3X100	E5.87
PFMR2X15	E5.83
PFMR2X30	E5.83
PFMR3X15	E5.83
PFMT2X100	E5.84
PFMT3X36	E5.87
PFMT3X100	E5.84
PFMTS01	E5.84
PFMTS02	E5.84
PFMTS03	E5.84
PFMTS04	E5.84
PFMTS05	E5.84
PFMTS06	E5.84
PFMTS07	E5.84
PFMTS08	E5.84
PFMTS09	E5.84
PFMTS10	E5.84
PFMTS11	E5.84
PFMTS12	E5.84
PFMTS14	E5.84
PFMTS15	E5.84
PFMTS16	E5.84
PFMTS17	E5.84
PFMTS18	E5.84
PFMTS19	E5.84
PFMTS20	E5.84
PH10-8R-E	D1.12
PH10-10R-E	D1.12
PH10-12R-E	D1.12
PH10-14R-E	D1.12
PH10-38R-E	D1.12
PH14-6R-Q	D1.12
PH14-8R-Q	D1.12
PH14-10R-Q	D1.12
PH14-14R-Q	D1.12
PH14-38R-Q	D1.12
PH14-56R-Q	D1.12
PH18-6R-Q	D1.12
PH18-8R-Q	D1.12
PH18-10R-Q	D1.12
PH18-14R-Q	D1.12
PHC0001	E5.76
PHC02	E5.75
PHC03	E5.75
PHC04	E5.75
PHC4X4	E5.71
PHC4X4N	E5.71
PHC05	E5.75
PHC06	E5.75
PHC07	E5.75
PHC08	E5.75
PHC09	E5.75
PHC10	E5.75
PHC10X10	E5.71
PHC10X10N	E5.71
PHC11	E5.75
PHC12	E5.75
PHC13	E5.75
PHC14	E5.75
PHC15	E5.75
PHC15X15	E5.71
PHC15X15N	E5.71
PHC16	E5.75
PHC17	E5.75
PHC18	E5.75
PHC19	E5.75
PHC0074	E5.71
PHC0075	E5.71
PHC0076	E5.71
PHC0077	E5.71
PHC0078	E5.71
PHC0079	E5.71
PHC0080	E5.71
PHC0081	E5.71
PHC0082	E5.71
PHC0119	E5.76
PHC0120	E5.76
PHC0122	E5.71
PHC0123	E5.71
PHC0124	E5.71
PHC0125	E5.71
PHC0126	E5.71
PHC0127	E5.71
PHC0128	E5.71
PHC0129	E5.76
PHC0130	E5.76
PHC0131	E5.76
PHC0132	E5.72
PHC0133	E5.72
PHC0134	E5.72
PHC0135	E5.72
PHC0136	E5.72
PHC0137	E5.72
PHC0138	E5.72
PHC0139	E5.72
PHL3125	E5.26
PHL3126	E5.26
PHL3132	E5.26
PHL3163	E5.26
PHL3165	E5.26
PHL3188	E5.26
PHL3204	E5.26
PHL3212	E5.26
PHL3315	E5.26
PHL3317	E5.26
PHL3323	E5.26
PHL3343	E5.26
PHL3345	E5.26
PHL3347	E5.26
PHL3351	E5.26
PHL3354	E5.26
PHL3355	E5.26
PHL3357	E5.26
PHL3358	E5.26
PHL3359	E5.26
PHL3361	E5.26
PHL3365	E5.26
PHL3377	E5.26
PHL3381	E5.26
PHL3386	E5.26
PHL3388	E5.26
PHL3402	E5.26
PHL3404	E5.26
PHL3619	E5.26
PHL3632	E5.26
PHL3649	E5.26
PIDT001	E5.45
PIDT002	E5.45
PIDT003	E5.45
PIDT004	E5.45
PIDT005	E5.45
PIDT006	E5.45
PIDT007	E5.45
PIDT008	E5.45
PIDT009	E5.45
PIDT010	E5.45
PIDT011	E5.45
PIDT012	E5.45
PISR1/0-1	D2.95
PISR2-1	D2.95
PISR250-1	D2.95
PISR350-1	D2.95
PISR500-1	D2.95
PK2-12R-T	D1.11
PK2-14R-T	D1.11

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Part Number Index

Part Number	Page Number
PK2-38R-T	D1.11
PK2-56R-T	D1.11
PK4-10R-T	D1.11
PK4-12R-T	D1.11
PK4-14R-T	D1.11
PK4-38R-T	D1.11
PK4-56R-T	D1.11
PK6-8R-T	D1.11
PK6-10R-T	D1.11
PK6-12R-T	D1.11
PK6-14R-T	D1.11
PK6-38R-T	D1.11
PK6-56R-T	D1.11
PK8-8R-T	D1.11
PK8-10R-T	D1.11
PK8-12R-T	D1.11
PK8-14R-T	D1.11
PK8-38R-T	D1.11
PK8-56R-T	D1.11
PK10-6R-L	D1.11
PK10-8R-L	D1.11
PK10-10R-L	D1.11
PK10-14R-L	D1.11
PK10-38R-Q	D1.11
PK14-4R-C	D1.11
PK14-6R-C	D1.11
PK14-8R-C	D1.11
PK14-10R-C	D1.11
PK14-14R-C	D1.11
PK14-38R-C	D1.11
PK14-56R-C	D1.11
PK18-4R-C	D1.11
PK18-6R-C	D1.11
PK18-8R-C	D1.11
PK18-10R-C	D1.11
PK18-14R-C	D1.11
PK18-38R-C	D1.11
PL2M2S-D	B1.34
PL2M2S-L	B1.32, B1.34
PL2M2S-L0	B1.32
PL3B5EH-C	B1.77
PL3B5EH-C0	B1.74
PL3M2S-D	B1.34
PL3M2S-D0	B1.32
PL3M2S-L	B1.32, B1.34
PLA2S-A-Q	B2.6
PLB2S-C	B1.72, B1.77
PLB2S-C0	B1.72
PLB2S-M	B1.77
PLB2S-M30	B1.72
PLB3S-C	B1.72, B1.77
PLB3S-C0	B1.72
PLB3S-M	B1.77
PLB3S-M30	B1.72
PLB4H-TL	B1.72, B1.77
PLB4H-TL0	B1.72
PLB4H-TL30	B1.72
PLB4S-C	B1.72, B1.77
PLB4S-M	B1.77
PLB4S-M0	B1.72
PLB4S-M30	B1.72
PLC1.5I-S8-C	B1.24, B1.33
PLC1.5I-S8-C0	B1.25
PLC1.5I-S8-M	B1.33
PLC1.5I-S8-M30	B1.25
PLC1M-S4-C	B1.24, B1.33
PLC1M-S4-C0	B1.25
PLC1M-S4-M	B1.33
PLC1M-S4-M30	B1.25
PLC2H-S25-L	B1.24, B1.33
PLC2H-S25-TL	B1.33
PLC2H-S25-TL0	B1.25
PLC2H-S25-TL30	B1.25
PLC2S-S6-C	B1.24, B1.33
PLC2S-S6-C0	B1.25
PLC2S-S6-M	B1.33
PLC2S-S10-C	B1.24, B1.33
PLC2S-S10-C0	B1.25
PLC2S-S10-M	B1.33
PLC2S-S10-M30	B1.25
PLC3S-S10-C	B1.24, B1.33
PLC3S-S10-C0	B1.25
PLC3S-S10-M	B1.33
PLC4H-S25-L	B1.24, B1.33
PLC4H-S25-L0	B1.25
PLC4H-S25-TL	B1.33
PLC4H-S25-TL30	B1.25
PLC4S-S10-C	B1.24, B1.33
PLC4S-S10-C0	B1.25
PLC4S-S10-M	B1.33
PLC4S-S10-M30	B1.25
PLD-3	E5.20
PLD-4	E5.20
PLD-7	E5.20
PLD-11	E5.20
PLD-12	E5.18
PLD-17	E5.20
PLD-18	E5.20
PLD-22	E5.20
PLD-28	E5.20
PLD-29	E5.20
PLD-30	E5.18
PLD-36	E5.18
PLD-37	E5.18
PLD-38	E5.18
PLD-43	E5.18
PLD-45	E5.18
PLD-46	E5.18
PLD-47	E5.18
PLD-52	E5.18
PLD-56	E5.18
PLD-57	E5.18
PLD-58	E5.18
PLD-60	E5.18
PLD-62	E5.20
PLD-63	E5.20
PLD-64	E5.20
PLD-67	E5.18
PLD-68	E5.18
PLD-71	E5.18
PLD-72	E5.18
PLD-74	E5.18
PLD-77	E5.20
PLD-78	E5.20
PLD-80	E5.18
PLD-81	E5.18
PLD-91	E5.18
PLDC1.5EH-C350	B1.75
PLDC2.5EH-C350	B1.75
PLF1MA-C	B1.32, B1.33
PLF1MA-M	B1.33
PLF1MA-M0	B1.32
PLF1MB-C	B1.32, B1.33
PLF1MB-M	B1.33
PLF1M-C	B1.32, B1.33
PLF1M-C0	B1.32
PLF1MC-M	B1.32, B1.33
PLF1M-M	B1.33
PLF1M-M69	B1.32
PLM1M-C	B1.32, B1.33
PLM1M-C0	B1.32
PLM1M-M	B1.33
PLM1M-M69	B1.32
PLM2M-C	B1.32, B1.33
PLM2M-M	B1.33
PLM2M-M0	B1.32
PLM2S-C	B1.32, B1.33
PLM2S-C0	B1.32
PLM2S-D	B1.33
PLM4S-C	B1.32, B1.33
PLM4S-D	B1.33
PLM4S-D0	B1.32
PLP1.5I-C	B1.31, B1.34
PLP1.5I-M	B1.34
PLP1.5I-M0	B1.31
PLP1.5I-M30	B1.31
PLP1.5S-M	B1.31, B1.34
PLP1S-M	B1.31, B1.34
PLP1S-M0	B1.31
PLP1S-M30	B1.31
PLP2S-C	B1.31, B1.34
PLP2S-M	B1.34
PLP2S-M0	B1.31
PLP2S-M30	B1.31
PLST4HS25-TL	B1.77
PLST4HS25-TL300	B1.71
PLST30SC-D	B1.77
PLST30SC-D30	B1.71
PLST50SC-D	B1.77
PLST50SC-D30	B1.71
PLT1.5I-C	B1.8, B1.34
PLT1.5I-C0	B1.10
PLT1.5I-C30	B1.12
PLT1.5I-M	B1.34
PLT1.5I-M69	B1.14
PLT1.5I-M100	B1.16
PLT1.5I-M109	B1.15
PLT1.5I-M120	B1.15
PLT1.5I-M300	B1.13
PLT1.5M-C	B1.8, B1.34
PLT1.5M-C0	B1.10
PLT1.5M-C71	B1.18
PLT1.5M-M	B1.34
PLT1.5M-M30	B1.12
PLT1.5M-XMR	B1.34, B1.104
PLT1.5M-XMR0	B1.104

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
PLT1.5M-XMR30	B1.104
PLT1.5S-C	B1.8, B1.34
PLT1.5S-C0	B1.10
PLT1.5S-M	B1.34
PLT1.5S-M30	B1.12
PLT1M-C	B1.8, B1.34
PLT1M-C0	B1.10
PLT1M-C30	B1.12
PLT1M-C71	B1.18
PLT1M-C76	B1.17
PLT1M-C86	B1.19
PLT1M-C186	B1.19
PLT1M-C702Y	B1.16
PLT1M-L0	B1.78
PLT1M-L1	B1.78
PLT1M-L1-0	B1.78
PLT1M-L1-2	B1.78
PLT1M-L1-4	B1.78
PLT1M-L1-7	B1.78
PLT1M-L1-10	B1.78
PLT1M-L2	B1.78
PLT1M-L3	B1.78
PLT1M-L3-0	B1.78
PLT1M-L3-2	B1.78
PLT1M-L3-4	B1.78
PLT1M-L3-7	B1.78
PLT1M-L3-10	B1.78
PLT1M-L4Y	B1.78
PLT1M-L5	B1.78
PLT1M-L5-0	B1.78
PLT1M-L5-2	B1.78
PLT1M-L5-4	B1.78
PLT1M-L5-7	B1.78
PLT1M-L5-10	B1.78
PLT1M-L6	B1.78
PLT1M-L6-0	B1.78
PLT1M-L6-2	B1.78
PLT1M-L6-4	B1.78
PLT1M-L6-7	B1.78
PLT1M-L6-10	B1.78
PLT1M-L8	B1.78
PLT1M-L8-0	B1.78
PLT1M-L8-2	B1.78
PLT1M-L8-4	B1.78
PLT1M-L8-7	B1.78
PLT1M-L8-10	B1.78
PLT1M-M	B1.34
PLT1M-M60	B1.14
PLT1M-M69	B1.14
PLT1M-M100	B1.16
PLT1M-M109	B1.15
PLT1M-M300	B1.13
PLT1M-XMR	B1.34, B1.104
PLT1M-XMR0	B1.104
PLT1M-XMR30	B1.104
PLT1S-C	B1.8, B1.34
PLT1S-C0	B1.10
PLT1S-M	B1.34
PLT1S-M30	B1.12
PLT1S-M300	B1.13
PLT2.5H-L	B1.8, B1.34
PLT2.5H-L0	B1.10
PLT2.5H-TL	B1.34
PLT2.5I-C	B1.8, B1.34
PLT2.5I-C0	B1.10
PLT2.5I-M	B1.34
PLT2.5S-C	B1.8, B1.34
PLT2.5S-C0	B1.10
PLT2.5S-M	B1.34
PLT2.5S-M30	B1.12
PLT2EH-C	B1.9, B1.35
PLT2EH-Q	B1.35
PLT2EH-Q0	B1.11
PLT2H-L	B1.8, B1.34
PLT2H-L0	B1.10
PLT2H-TL	B1.34
PLT2H-TL30	B1.12
PLT2H-TL100	B1.16
PLT2H-TL109	B1.15
PLT2H-TL300	B1.13
PLT2I-C	B1.8, B1.34
PLT2I-C0	B1.10
PLT2I-C30	B1.12
PLT2I-C76	B1.17
PLT2I-C86	B1.19
PLT2I-C186	B1.19
PLT2I-M	B1.34
PLT2I-M69	B1.14
PLT2I-M300	B1.13
PLT2M-C	B1.8, B1.34
PLT2M-C0	B1.10
PLT2M-M	B1.34
PLT2M-M30	B1.12
PLT2M-M69	B1.14
PLT2S-C	B1.8, B1.34
PLT2S-C0	B1.10
PLT2S-C30	B1.12
PLT2S-C71	B1.18
PLT2S-C76	B1.17
PLT2S-C86	B1.19
PLT2S-C186	B1.19
PLT2S-C702Y	B1.16
PLT2S-M	B1.34
PLT2S-M39	B1.12
PLT2S-M60	B1.14
PLT2S-M69	B1.14
PLT2S-M100	B1.16
PLT2S-M109	B1.15
PLT2S-M120	B1.15
PLT2S-M300	B1.13
PLT2S-VMR	B1.34, B1.105
PLT2S-VMR0	B1.105
PLT2S-VMR30	B1.105
PLT3EH-NB-C	B1.35
PLT3EH-NB-C0	B1.11
PLT3H-L	B1.8, B1.34
PLT3H-L0	B1.10
PLT3H-L76	B1.17
PLT3H-L86	B1.19
PLT3H-L186	B1.19
PLT3H-TL	B1.34
PLT3H-TL30	B1.12
PLT3H-TL100	B1.16
PLT3H-TL109	B1.15
PLT3I-C	B1.8, B1.34
PLT3I-C0	B1.10
PLT3I-M	B1.34
PLT3I-M30	B1.12
PLT3S-C	B1.8, B1.34
PLT3S-C0	B1.10
PLT3S-C30	B1.12
PLT3S-C76	B1.17
PLT3S-C86	B1.19
PLT3S-C186	B1.19
PLT3S-C702Y	B1.16
PLT3S-M	B1.34
PLT3S-M100	B1.16
PLT3S-M109	B1.15
PLT3S-VMR	B1.34, B1.105
PLT3S-VMR30	B1.105
PLT4.5S-C	B1.8, B1.34
PLT4.5S-C0	B1.10
PLT4.5S-M	B1.34
PLT4H-C	B1.34
PLT4H-L	B1.8, B1.34
PLT4H-L0	B1.10
PLT4H-L76	B1.17
PLT4H-L86	B1.19
PLT4H-L186	B1.19
PLT4H-TL	B1.34
PLT4H-TL0/147	B1.10
PLT4H-TL30	B1.12
PLT4H-TL30/147	B1.12
PLT4H-TL69	B1.14
PLT4H-TL100	B1.16
PLT4H-TL109	B1.15
PLT4H-TL120	B1.15
PLT4H-TL300	B1.13
PLT4I-C	B1.8, B1.34
PLT4I-C0	B1.10
PLT4I-M	B1.34
PLT4I-M30	B1.12
PLT4S-C	B1.8, B1.34
PLT4S-C0	B1.10
PLT4S-C30	B1.12
PLT4S-C76	B1.17
PLT4S-C86	B1.19
PLT4S-C186	B1.19
PLT4S-M	B1.34
PLT4S-M69	B1.14
PLT4S-M100	B1.16
PLT4S-M109	B1.15
PLT4S-M120	B1.15
PLT4S-M300	B1.13
PLT5EH-C	B1.35
PLT5EH-NB-C	B1.35
PLT5EH-NB-C0	B1.11
PLT5EH-Q	B1.9, B1.35
PLT5EH-Q0	B1.11
PLT5H-C	B1.34
PLT5H-C30	B1.12
PLT5H-L	B1.8, B1.34
PLT5H-L0	B1.10
PLT5S-C	B1.8, B1.34
PLT5S-C0	B1.10
PLT5S-M	B1.34

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Part Number Index

Part Number	Page Number
PLT5S-M30	B1.12
PLT6EH-C	B1.35
PLT6EH-NB-C	B1.35
PLT6EH-NB-C0	B1.11
PLT6EH-Q	B1.9, B1.35
PLT6EH-Q0	B1.11
PLT6H-C	B1.34
PLT6H-C30	B1.12
PLT6H-L	B1.8, B1.34
PLT6H-L0	B1.10
PLT6LH-C	B1.34
PLT6LH-L	B1.8, B1.34
PLT6LH-L0	B1.10
PLT.6SM-C	B1.8, B1.34
PLT.6SM-C0	B1.10
PLT.6SM-M	B1.34
PLT.6SM-M30	B1.12
PLT7LH-C	B1.34
PLT7LH-C30	B1.12
PLT7LH-L	B1.8, B1.34
PLT7LH-L0	B1.10
PLT.7M-C	B1.8, B1.34
PLT.7M-M	B1.34
PLT.7M-M0	B1.10
PLT.7M-M30	B1.12
PLT8EH-C	B1.9, B1.35
PLT8EH-Q	B1.35
PLT8EH-Q0	B1.11
PLT8H-C	B1.34
PLT8H-C30	B1.12
PLT8H-L	B1.8, B1.34
PLT8H-L0	B1.10
PLT8LH-C	B1.34
PLT8LH-C120	B1.15
PLT8LH-L	B1.8, B1.34
PLT8LH-L0	B1.10
PLT8LH-Q	B1.34
PLT9LH-C	B1.34
PLT9LH-C30	B1.12
PLT9LH-L	B1.8, B1.34
PLT9LH-L0	B1.10
PLT10EH-C	B1.9, B1.35
PLT10EH-Q	B1.35
PLT10EH-Q0	B1.11
PLT10LH-C	B1.34
PLT10LH-L	B1.8, B1.34
PLT12EH-C	B1.9, B1.35
PLT12EH-Q	B1.35
PLT12EH-Q0	B1.11
PLT13H-C	B1.34
PLT13H-Q	B1.8, B1.34
PLT13H-Q0	B1.10
PLUP40S-D	B1.35
PLUP40S-D30	B1.30
PLUP40SE-D	B1.30, B1.35
PLUP40SE-D30	B1.30
PLVS0202*	E5.30
PLVS0404*	E5.30
PLWP1.5I-C	B1.26, B1.35
PLWP1.5I-D	B1.35
PLWP1.5I-D30	B1.27
PLWP1.5SA-D	B1.26, B1.35
PLWP1.5S-D	B1.26, B1.35
PLWP1.5S-D30	B1.27
PLWP1M-C	B1.26, B1.35
PLWP1M-D	B1.35
PLWP1M-D0	B1.27
PLWP1M-D30	B1.27
PLWP1SA-D	B1.26, B1.35
PLWP1SB-D	B1.26, B1.35
PLWP1S-C	B1.26, B1.35
PLWP1S-C0	B1.27
PLWP1S-D	B1.35
PLWP1S-D30	B1.27
PLWP2H-TL	B1.26, B1.35
PLWP2H-TL0	B1.27
PLWP2H-TL30	B1.27
PLWP2SA-D	B1.26, B1.35
PLWP2SB-D	B1.26, B1.35
PLWP2S-C	B1.26, B1.35
PLWP2S-C0	B1.27
PLWP2S-D	B1.35
PLWP2S-D30	B1.27
PLWP3H-TL	B1.26, B1.35
PLWP3H-TL0	B1.27
PLWP30SC-D	B1.35
PLWP30SC-D30	B1.29
PLWP40SC-D	B1.35
PLWP40SC-D30	B1.29
PLWP40SD-D	B1.35
PLWP40SD-D30	B1.29
PLWP50SC-D	B1.35
PLWP50SC-D30	B1.29
PLWP50SE-D	B1.35
PLWP50SE-D30	B1.29
PLWS2EH-TL350	B1.35
PLWS3EH-TL350	B1.35
PLWS4EH-TL30	B1.35
PM2H25-C	B2.18
PM2H25-M0	B2.18
PM2H25-M30	B2.18
PMCC38H25-C	B2.28
PMCC38H25-M0	B2.28
PMD	E3.8
PMD-0-9	E3.8
PMDR-0	E3.9
PMDR-0-9	E3.9
PMDR-9	E3.9
PMDR-90-99	E3.9
PMDR-A	E3.9
PMDR-BL	E3.9
PMDR-BLK	E3.9
PMDR-BRN	E3.9
PMDR-GRN	E3.9
PMDR-GRS	E3.9
PMDR-GRY	E3.9
PMDR-L1	E3.9
PMDR-L3	E3.9
PMDR-MIN	E3.9
PMDR-ORN	E3.9
PMDR-PLS	E3.9
PMDR-PUR	E3.9
PMDR-RED	E3.9
PMDR-T1	E3.9
PMDR-T3	E3.9
PMDR-WHT	E3.9
PMDR-YEL	E3.9
PMDR-Z	E3.9
PN10-6F-2K	D1.79
PN10-6F-L	D1.20
PN10-6LF-2K	D1.82
PN10-6LF-L	D1.23
PN10-6R-2K	D1.75
PN10-6R-L	D1.6
PN10-6RX-L	D1.8
PN10-8F-2K	D1.79
PN10-8FF-2K	D1.85
PN10-8FF-L	D1.26
PN10-8F-L	D1.20
PN10-8LF-2K	D1.82
PN10-8LF-L	D1.23
PN10-8R-2K	D1.75
PN10-8R-L	D1.6
PN10-8RX-L	D1.8
PN10-10F-2K	D1.79
PN10-10FF-2K	D1.85
PN10-10FF-L	D1.26
PN10-10F-L	D1.20
PN10-10LF-2K	D1.82
PN10-10LF-L	D1.23
PN10-10R-2K	D1.75
PN10-10R-L	D1.6
PN10-10RX-L	D1.8
PN10-12R-Q	D1.6
PN10-14F-2K	D1.79
PN10-14F-L	D1.20
PN10-14LF-L	D1.23
PN10-14R-2K	D1.75
PN10-14R-L	D1.6
PN10-14RX-L	D1.8
PN10-38R-2K	D1.75
PN10-38R-L	D1.6
PN10-38RX-L	D1.8
PN10-56R-2K	D1.75
PN10-56R-L	D1.6
PN10-56RX-L	D1.8
PN12-6HDR-2K	D1.78
PN12-8HDR-2K	D1.78
PN12-8HDR-L	D1.12
PN12-10HDR-2K	D1.78
PN12-10HDR-L	D1.12
PN12-14HDR-2K	D1.78
PN12-14HDR-L	D1.12
PN12-38HDR-2K	D1.78
PN12-38HDR-L	D1.12
PN12-56HDR-2K	D1.78
PN12-56HDR-L	D1.12
PN14-4R-3K	D1.75
PN14-4R-C	D1.6
PN14-6F-3K	D1.79
PN14-6F-C	D1.20
PN14-6FF-3K	D1.85
PN14-6FF-C	D1.26
PN14-6FN-3K	D1.79
PN14-6FN-C	D1.20
PN14-6LF-3K	D1.82

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
PN14-6LF-C	D1.23
PN14-6LFW-C	D1.23
PN14-6R-3K	D1.75
PN14-6R-C	D1.6
PN14-6RN-3K	D1.75
PN14-6RN-C	D1.6
PN14-6RX-C	D1.8
PN14-8F-3K	D1.79
PN14-8F-C	D1.20
PN14-8FF-3K	D1.85
PN14-8FF-C	D1.26
PN14-8LF-3K	D1.82
PN14-8LF-C	D1.23
PN14-8R-3K	D1.75
PN14-8R-C	D1.6
PN14-8RX-C	D1.8
PN14-10F-3K	D1.79
PN14-10F-C	D1.20
PN14-10FF-3K	D1.85
PN14-10FF-C	D1.26
PN14-10FN-3K	D1.79
PN14-10FN-C	D1.20
PN14-10LF-3K	D1.82
PN14-10LF-C	D1.23
PN14-10LFN-C	D1.23
PN14-10R-3K	D1.75
PN14-10R-C	D1.6
PN14-10RX-C	D1.8
PN14-12R-Q	D1.6
PN14-14F-3K	D1.79
PN14-14F-C	D1.20
PN14-14R-3K	D1.75
PN14-14R-C	D1.6
PN14-14RX-L	D1.8
PN14-38R-L	D1.6
PN14-56R-C	D1.6
PN18-4R-3K	D1.75
PN18-4R-C	D1.6
PN18-4RN-C	D1.6
PN18-6F-3K	D1.79
PN18-6F-C	D1.20
PN18-6FF-3K	D1.85
PN18-6FF-C	D1.26
PN18-6FN-3K	D1.79
PN18-6FN-C	D1.20
PN18-6LF-3K	D1.82
PN18-6LF-C	D1.23
PN18-6LFW-C	D1.23
PN18-6R-3K	D1.75
PN18-6R-C	D1.6
PN18-6RN-3K	D1.75
PN18-6RN-C	D1.6
PN18-8F-3K	D1.79
PN18-8F-C	D1.20
PN18-8FF-3K	D1.85
PN18-8FF-C	D1.26
PN18-8LF-3K	D1.82
PN18-8LF-C	D1.23
PN18-8R-3K	D1.75
PN18-8R-C	D1.6
PN18-10F-3K	D1.79
PN18-10F-C	D1.20
PN18-10FF-3K	D1.85
PN18-10FF-C	D1.26
PN18-10FN-3K	D1.79
PN18-10FN-C	D1.20
PN18-10LF-3K	D1.82
PN18-10LF-C	D1.23
PN18-10LFN-C	D1.23
PN18-10R-3K	D1.75
PN18-10R-C	D1.6
PN18-12R-L	D1.6
PN18-14F-3K	D1.79
PN18-14F-C	D1.20
PN18-14R-3K	D1.75
PN18-14R-C	D1.6
PN18-38R-C	D1.6
PN18-56R-C	D1.6
PN22-4F-C	D1.20
PN22-6F-C	D1.20
PN22-10R-C	D1.6
PNF10-6F-2K	D1.80
PNF10-6F-L	D1.21
PNF10-6LF-2K	D1.83
PNF10-6LF-L	D1.24
PNF10-6R-2K	D1.76
PNF10-6R-L	D1.7
PNF10-8F-2K	D1.80
PNF10-8FF-2K	D1.86
PNF10-8F-L	D1.21
PNF10-8LF-2K	D1.83
PNF10-8LF-L	D1.24
PNF10-8R-2K	D1.76
PNF10-8R-L	D1.7
PNF10-10FF-2K	D1.86
PNF10-10F-L	D1.21
PNF10-10LF-2K	D1.83
PNF10-10LF-L	D1.24
PNF10-10R-2K	D1.76
PNF10-10R-L	D1.7
PNF10-14F-2K	D1.80
PNF10-14F-L	D1.21
PNF10-14LF-2K	D1.83
PNF10-14LF-L	D1.24
PNF10-14R-2K	D1.76
PNF10-14R-L	D1.7
PNF10-38R-2K	D1.76
PNF10-38R-L	D1.7
PNF10-56R-2K	D1.76
PNF10-56R-L	D1.7
PNF14-4R-3K	D1.76
PNF14-4R-C	D1.7
PNF14-6F-3K	D1.80
PNF14-6F-C	D1.21
PNF14-6FF-3K	D1.86
PNF14-6FN-3K	D1.80
PNF14-6LF-3K	D1.83
PNF14-6LF-C	D1.24
PNF14-6LFW-C	D1.24
PNF14-6R-3K	D1.76
PNF14-6R-C	D1.7
PNF14-6RN-3K	D1.76
PNF14-6RN-C	D1.7
PNF14-8F-3K	D1.80
PNF14-8F-C	D1.21
PNF14-8FF-3K	D1.86
PNF14-8LF-3K	D1.83
PNF14-8LF-C	D1.24
PNF14-8R-3K	D1.76
PNF14-8R-C	D1.7
PNF14-10F-3K	D1.80
PNF14-10F-C	D1.21
PNF14-10FF-3K	D1.86
PNF14-10LF-3K	D1.83
PNF14-10LF-C	D1.24
PNF14-10LFN-3K	D1.83
PNF14-10R-3K	D1.76
PNF14-10R-C	D1.7
PNF14-14F-3K	D1.80
PNF14-14F-C	D1.21
PNF14-14R-3K	D1.76
PNF14-14R-C	D1.7
PNF14-38R-L	D1.7
PNF14-56R-C	D1.7
PNF18-4R-3K	D1.76
PNF18-4R-C	D1.7
PNF18-4RN-3K	D1.76
PNF18-6F-3K	D1.80
PNF18-6F-C	D1.21
PNF18-6FF-3K	D1.86
PNF18-6FN-3K	D1.80
PNF18-6LF-3K	D1.83
PNF18-6LF-C	D1.24
PNF18-6LFW-3K	D1.83
PNF18-6LFW-C	D1.24
PNF18-6R-3K	D1.76
PNF18-6R-C	D1.7
PNF18-6RN-3K	D1.76
PNF18-6RN-C	D1.7
PNF18-8F-3K	D1.80
PNF18-8F-C	D1.21
PNF18-8FF-3K	D1.86
PNF18-8LF-3K	D1.83
PNF18-8LF-C	D1.24
PNF18-8R-3K	D1.76
PNF18-8R-C	D1.7
PNF18-10F-3K	D1.80
PNF18-10F-C	D1.21
PNF18-10FF-3K	D1.86
PNF18-10LF-3K	D1.83
PNF18-10LF-C	D1.24
PNF18-10R-3K	D1.76
PNF18-10R-C	D1.7
PNF18-14F-3K	D1.80
PNF18-14F-C	D1.21
PNF18-14R-3K	D1.76
PNF18-14R-C	D1.7
PNF18-38R-C	D1.7
PNF18-56R-C	D1.7
PNL-1/0-L	D2.71
PNL-4-C	D2.71
PNL-250-Q	D2.71
PNL-500-3	D2.71
PNL-1000-3	D2.71
PP1S-S10-X	B2.21
PP1S-S12-X	B2.21

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PP2S-S10-C0	B2.21
PP2S-S10-X	B2.21
PP2S-S12-X	B2.21
PP5X50F	B1.79
PPC25X50	B1.79
PPC25X50F	B1.79
PPF2S-S25-V	B2.22
PPF2S-S25-V69	B2.22
PPF2SV-S25-V	B2.22
PPF2SV-S25-V69	B2.22
PPM-0	E3.7
PPM-1-33	E3.7
PPM-25	E3.7
PPM-A	E3.7
PPMA41	E5.51
PPMA42	E5.51
PPMA43	E5.51
PPMA44	E5.51
PPMA45	E5.51
PPMA46	E5.51
PPMA47	E5.51
PPMA48	E5.51
PPMA3001	E5.50
PPMA3002	E5.50
PPMA3003	E5.50
PPMA3004	E5.50
PPMA3005	E5.50
PPMA3006	E5.50
PPMA3007	E5.50
PPMA3008	E5.50
PPMA3009	E5.50
PPMA3010	E5.50
PPMA3011	E5.50
PPMA3012	E5.50
PPMA3013	E5.50
PPMA3014	E5.50
PPMA3015	E5.50
PPMA3016	E5.50
PPMA4001	E5.51
PPMA4002	E5.51
PPMA4003	E5.51
PPMA4004	E5.51
PPMA4005	E5.51
PPMA4006	E5.51
PPMA4007	E5.51
PPMA4008	E5.51
PPMA4009	E5.51
PPMA4010	E5.51
PPMA4011	E5.51
PPMA4012	E5.51
PPMA4013	E5.51
PPM-C	E3.7
PPMR0001	E5.50
PPMR1X54	E5.49
PPMR1X108	E5.49
PPMR0002	E5.50
PPMR2X54	E5.49
PPMR2X108	E5.49
PPMR0003	E5.50
PPMR0004	E5.50
PPMR4X54	E5.49
PPMR4X108	E5.49
PPMR0005	E5.50
PPMR0006	E5.50
PPMR0007	E5.50
PPMR0008	E5.50
PPMR0009	E5.50
PPMR0010	E5.50
PPMR0011	E5.50
PPMR0012	E5.50
PPMR0013	E5.50
PPMR0014	E5.50
PPMR0015	E5.50
PPMR0016	E5.50
PPMR0017	E5.50
PPMR0018	E5.50
PPMR0019	E5.50
PPMR0020	E5.50
PPMR0021	E5.50
PPMR0022	E5.50
PPMR0023	E5.50
PPMR0024	E5.50
PPMR0025	E5.50
PPMR0026	E5.50
PPMR0027	E5.50
PPMR0028	E5.50
PPMR0029	E5.50
PPMR0030	E5.50
PPMR0031	E5.50
PPMR0032	E5.50
PPMR0101	E5.49
PPMR0102	E5.49
PPMR0103	E5.49
PPMR0104	E5.49
PPMR0105	E5.49
PPMR0106	E5.49
PPMR0108	E5.49
PPMR0109	E5.49
PPMR0110	E5.49
PPMR0111	E5.49
PPMR0112	E5.49
PPMR0113	E5.49
PPMR0114	E5.49
PPMR0115	E5.49
PPMR0116	E5.49
PPMR0117	E5.49
PPMR0118	E5.49
PPMR0119	E5.49
PPMR0120	E5.49
PPMR0121	E5.49
PPMR0122	E5.49
PPMR0123	E5.49
PPMR0124	E5.49
PPMR0125	E5.49
PPMR0126	E5.49
PPMR0127	E5.49
PPMR0128	E5.49
PPMR0129	E5.49
PPMR0130	E5.49
PPMR0131	E5.49
PPMR0132	E5.49
PPMR0133	E5.49
PPMR0134	E5.49
PPMR0135	E5.49
PPMR0136	E5.49
PPMR0137	E5.49
PPMR0138	E5.49
PPMR0139	E5.49
PPMR0140	E5.49
PPMR0141	E5.49
PPMR0142	E5.49
PPMR0143	E5.49
PPMR0144	E5.49
PPMR0145	E5.49
PPMR0146	E5.49
PPMR0147	E5.49
PPMR0148	E5.49
PPMR0149	E5.49
PPMR0150	E5.49
PPMR0151	E5.49
PPMR0152	E5.49
PPMR0153	E5.49
PPMR0154	E5.49
PPMR0155	E5.49
PPS0305C174	E5.15
PPS0305W2201Y	E5.15
PPS0507W2201Y	E5.15
PPS0710D28	E5.15
PPS0710D66	E5.15
PPS0710D73	E5.15
PPS0710D77	E5.15
PPS1014D73	E5.15
PRA2S-A-Q	B2.6
PRL100BY-*	E5.29
PRL100BY-18KIT	E5.29
PRL100BY-36KIT	E5.29
PRL150YB-*	E5.29
PRL250YB-*	E5.29
PRLWP30S-D	B1.35
PRLWP30S-D30	B1.30
PRLWP50S-D	B1.35
PRLWP50S-D30	B1.30
PROG-CCCD	E1.16
PRS0910D453	E5.15
PRS1014D71	E5.15
PRS1014D73	E5.15
PRS1420D75	E5.15
PRST30S-S14-M	B1.77
PRST30S-S14-M30	B1.72
PRST40SC-D	B1.77
PRST40SC-D30	B1.71
PRT1.5S-C	B1.20, B1.35
PRT1.5S-C0	B1.21
PRT1.5S-M	B1.35
PRT1.5S-M30	B1.21
PRT1S-C	B1.20, B1.35
PRT1S-C0	B1.21
PRT1S-M	B1.35
PRT2EH-C	B1.20, B1.35
PRT2EH-C100	B1.23
PRT2EH-Q	B1.35
PRT2EH-Q0	B1.22
PRT2H-L	B1.20, B1.35
PRT2H-L0	B1.21
PRT2H-TL	B1.35
PRT2S-C	B1.20, B1.35

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
PRT2S-C0	B1.21
PRT2S-M	B1.35
PRT3H-L	B1.20, B1.35
PRT3H-L0	B1.21
PRT3H-TL	B1.35
PRT3S-C	B1.20, B1.35
PRT3S-C0	B1.21
PRT3S-M	B1.35
PRT4H-L	B1.20, B1.35
PRT4H-L0	B1.21
PRT4H-TL	B1.35
PRT4S-C	B1.20, B1.35
PRT4S-C0	B1.21
PRT4S-M	B1.35
PRT5EH-C	B1.35
PRT5EH-C30	B1.22
PRT5EH-C100	B1.23
PRT5EH-Q	B1.20, B1.35
PRT5EH-Q0	B1.22
PRT6EH-C	B1.35
PRT6EH-C100	B1.23
PRT6EH-Q	B1.20, B1.35
PRT6EH-Q0	B1.22
PRT8EH-C	B1.20, B1.35
PRT8EH-C100	B1.23
PRT8EH-Q	B1.35
PRT8EH-Q0	B1.22
PRT10EH-C	B1.20, B1.35
PRT10EH-Q	B1.35
PRT10EH-Q0	B1.22
PRT12EH-C	B1.20, B1.35
PRT12EH-Q	B1.35
PRT12EH-Q0	B1.22
PRWP1.5S-D	B1.28, B1.35
PRWP1.5S-D0	B1.28
PRWP1.5S-D30	B1.28
PRWP1SA-D	B1.28, B1.35
PRWP1SB-D	B1.28, B1.35
PRWP1S-C	B1.28, B1.35
PRWP1S-D	B1.35
PRWP1S-D0	B1.28
PRWP2H-TL	B1.28, B1.35
PRWP2S-D	B1.28, B1.35
PRWP2S-D0	B1.28
PS12-L	D1.53
PS16-C	D1.53
PS18-C	D1.53
PSCB-3Y	E3.3
PSCB-3YELY	E3.3
PSCB-5Y	E3.3
PSCB-6Y	E3.3
PSCB-12Y	E3.3
PSCB-13Y	E3.3
PSCB-16Y	E3.3
PSCBLK-Q	D2.28, D2.29
PSCBLU-L	D2.28, D2.29
PSCBRN-L	D2.28, D2.29
PSCC-3Y	E3.8
PSCC-5Y	E3.8
PSCGRN-L	D2.28, D2.29
PSCGRY-L	D2.28, D2.29
PSCORG-Q	D2.28, D2.29
PSCPNK-L	D2.28, D2.29
PSCPUR-Q	D2.28, D2.29
PSCRED-L	D2.28, D2.29
PSCYEL-Q	D2.28, D2.29
PSL-1	E5.54
PSL-1.5	E5.54
PSL-1.5A	E5.54
PSL-1A	E5.54
PSL-4SA	E5.63
PSL-4SWCA	E5.63
PSL-6ABU	E5.68
PSL-6ABU-LS	E5.68
PSL-6BU	E5.68
PSL-6BU-LS	E5.68
PSL-6CBU	E5.68
PSL-6CBU-LS	E5.68
PSL-6DBU	E5.68
PSL-6DBU-LS	E5.68
PSL-7	E5.66
PSL-7BL	E5.66
PSL-7BL-LS	E5.66
PSL-7BR	E5.66
PSL-7BR-LS	E5.66
PSL-7BU	E5.66
PSL-7BU-LS	E5.66
PSL-7GR	E5.66
PSL-7GR-LS	E5.66
PSL-7-LS	E5.66
PSL-7OR	E5.66
PSL-7OR-LS	E5.66
PSL-7PU	E5.66
PSL-7PU-LS	E5.66
PSL-7YL	E5.66
PSL-7YL-LS	E5.66
PSL-8	E5.66
PSL-8BL	E5.66
PSL-8BL-LB	E5.66
PSL-8BR	E5.66
PSL-8BR-LB	E5.66
PSL-8BU	E5.66
PSL-8BU-LB	E5.66
PSL-8GR	E5.66
PSL-8GR-LB	E5.66
PSL-8-LABEL	E5.70
PSL-8-LB	E5.66
PSL-8OR	E5.66
PSL-8OR-LB	E5.66
PSL-8PU	E5.66
PSL-8PU-LB	E5.66
PSL-8YL	E5.66
PSL-8YL-LB	E5.66
PSL-9	E5.66
PSL-9-LS	E5.66
PSL-10SA	E5.63
PSL-10SWCA	E5.63
PSL-12	E5.66
PSL-12BL	E5.66
PSL-12BR	E5.66
PSL-12BU	E5.66
PSL-12GR	E5.66
PSL-12OR	E5.66
PSL-12PU	E5.66
PSL-12YL	E5.66
PSL-13A	E5.68
PSL-13B	E5.68
PSL-13C	E5.68
PSL-13D	E5.68
PSL-13D-LS	E5.68
PSL-13E	E5.68
PSL-14ABL	E5.67
PSL-14BYL	E5.67
PSL-14BYL-LS	E5.67
PSL-15ABU	E5.67
PSL-15ABU-LS	E5.67
PSL-15BBU	E5.67
PSL-16A	E5.68
PSL-16B	E5.68
PSL-16C	E5.68
PSL-16C-LS	E5.68
PSL-16D	E5.68
PSL-16E	E5.68
PSL-16F	E5.68
PSL-17ABL	E5.67
PSL-17BBL	E5.67
PSL-18	E5.67
PSL-18-LS	E5.67
PSL-20SA	E5.63
PSL-20SWCA	E5.63
PSL-1001	E5.59
PSL-1002	E5.59
PSL-1003	E5.59
PSL-1004	E5.59
PSL-1005	E5.59
PSL-1006	E5.56
PSL-1007	E5.56
PSL-1008	E5.56
PSL-1009	E5.63
PSL-1010	E5.63
PSL-1011	E5.63
PSL-1012	E5.58
PSL-1013	E5.54
PSL-1014	E5.54
PSL-1015	E5.59
PSL-1016	E5.56
PSL-1017	E5.57
PSL-1018	E5.55
PSL-1019	E5.55
PSL-1020	E5.55
PSL-1021	E5.55
PSL-1022	E5.55
PSL-1023	E5.55
PSL-1024	E5.55
PSL-1025	E5.62
PSL-1026	E5.62
PSL-1028	E5.69
PSL-1029	E5.69
PSL-1033	E5.57
PSL-1058	E5.58
PSL-1059	E5.58
PSL-1065	E5.58
PSL-1070	E5.58
PSL-1075	E5.69
PSL-1076	E5.69
PSL-1077	E5.69

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PSL-1078	E5.69
PSL-1079	E5.69
PSL-1080	E5.69
PSL-1081	E5.69
PSL-1082	E5.69
PSL-1083	E5.69
PSL-BFV	E5.58
PSL-BG	E5.64
PSL-BV1	E5.58
PSL-BV2	E5.58
PSL-BV3	E5.58
PSL-BX	E5.65
PSL-CB	E5.53
PSL-CB-3PC	E5.53
PSL-CBIL	E5.53
PSL-CBILNT	E5.53
PSL-CBKIT	E5.53
PSL-CBL	E5.53
PSL-CBL-V	E5.53
PSL-CBNT	E5.53
PSL-CBNT-V	E5.53
PSL-CB-V	E5.53
PSL-CBWL	E5.53
PSL-CL110	E5.60
PSL-CL480	E5.60
PSL-CS	E5.66
PSL-DCJB	E5.61
PSL-DCJB-BL	E5.61
PSL-DCPLRX	E5.61
PSL-DCPLRX-BL	E5.61
PSL-DCPLX	E5.61
PSL-DCPLX-BL	E5.61
PSL-ERB	E5.60
PSL-GHS-TRAIN	E5.76
PSL-GLBN	E5.62
PSL-GLBNSS	E5.62
PSL-HD1	E5.54
PSL-HD3	E5.54
PSL-KT	E5.64
PSL-KT-CONA	E5.64
PSL-KT-CONA-F	E5.64
PSL-KT-CONAP	E5.64
PSL-KT-CONAPX	E5.64
PSL-KT-CONA-S	E5.64
PSL-KT-MROA	E5.65
PSL-KT-MROA-F	E5.65
PSL-KT-MROAP	E5.65
PSL-KT-MROAPX	E5.65
PSL-KT-MROA-S	E5.65
PSL-KT-PWR	E5.65
PSL-KT-PWR-F	E5.65
PSL-KT-PWRP	E5.65
PSL-KT-PWRPX	E5.65
PSL-KT-PWR-S	E5.65
PSL-MCB	E5.53
PSL-MCBNT	E5.53
PSL-MCBNT-V	E5.53
PSL-MCB-V	E5.53
PSL-MLD	E5.54
PSL-MLDC	E5.54
PSL-MLDC200	E5.54
PSL-MLDC200T	E5.54
PSL-MLD-CRIMP	E5.54
PSL-MLDCT	E5.54
PSL-MLDH-X	E5.54
PSL-MLDT	E5.54
PSL-MLD-TOOL	E5.54
PSL-NC3	E5.54
PSL-P	E5.60
PSL-PC	E5.69
PSL-PC31-6	E5.70
PSL-PC31-10	E5.70
PSL-PC38-6	E5.70
PSL-PC38-16	E5.70
PSL-PC38-33	E5.70
PSL-PCB	E5.53
PSL-PCBNT	E5.53
PSL-PCBNT-V	E5.53
PSL-PCB-V	E5.53
PSL-PE1	E5.69
PSL-PE2	E5.69
PSL-PEL	E5.58
PSL-PH1	E5.70
PSL-PH2	E5.70
PSL-PH3	E5.70
PSL-PH4	E5.70
PSL-PH5	E5.70
PSL-PI	E5.60
PSL-PK	E5.64
PSL-PK-EA	E5.64
PSL-PK-EA-F	E5.64
PSL-PK-EAKS	E5.64
PSL-PK-EAP	E5.64
PSL-PK-EAPX	E5.64
PSL-PL1BLKY	E5.70
PSL-PL1BLUY	E5.70
PSL-PL1GRNY	E5.70
PSL-PL1REDY	E5.70
PSL-PL1REDY-D	E5.70
PSL-PL1REDY-P	E5.70
PSL-PL1WHTY	E5.70
PSL-PL1YELY	E5.70
PSL-SC	E5.69
PSL-STATION	E5.64
PSL-STEPS	E5.62
PSL-TG1	E5.69
PSL-USBA	E5.61
PSL-V2A	E5.57
PSL-V6A	E5.57
PSL-V9	E5.57
PSL-V13	E5.57
PSL-WS	E5.59
PSN12-L	D1.52
PSN16-C	D1.52
PSN18-C	D1.52
PSS3P4002	E5.33
PSS3P4006	E5.32
PSS3P4008	E5.33
PSS3P4010	E5.33
PSS3P4011	E5.33
PSS3P4014	E5.32
PSS3P4016M	E5.32
PSS3P4019	E5.32
PSS3P4021	E5.32
PSS3P4023	E5.33
PSS3P4026	E5.32
PSS3P4029	E5.32
PSS3P4034	E5.32
PSS3P4035	E5.33
PSS3P4036	E5.32
PSS3P4037	E5.32
PSS3P4042	E5.33
PSS3P4047	E5.33
PSS3P4049	E5.32
PSS3P4053	E5.33
PSS3P4055	E5.33
PSS3P4058	E5.33
PSS3P4062	E5.33
PSS3P4069	E5.33
PSS3P4070	E5.33
PSS3P4071	E5.33
PSS3P4081	E5.33
PSS3P4087	E5.33
PSS3P4392	E5.32
PSS3P4443	E5.33
PSS3P4444	E5.33
PSS3P4658	E5.33
PSS9P4002	E5.33
PSS9P4006	E5.32
PSS9P4008	E5.33
PSS9P4010	E5.33
PSS9P4011	E5.33
PSS9P4014	E5.32
PSS9P4016M	E5.32
PSS9P4019	E5.32
PSS9P4021	E5.32
PSS9P4023	E5.33
PSS9P4026	E5.32
PSS9P4029	E5.32
PSS9P4034	E5.32
PSS9P4035	E5.33
PSS9P4036	E5.32
PSS9P4037	E5.32
PSS9P4042	E5.33
PSS9P4047	E5.33
PSS9P4049	E5.32
PSS9P4053	E5.33
PSS9P4055	E5.33
PSS9P4058	E5.33
PSS9P4062	E5.33
PSS9P4069	E5.33
PSS9P4070	E5.33
PSS9P4071	E5.33
PSS9P4081	E5.33
PSS9P4087	E5.33
PSS9P4392	E5.32
PSS9P4443	E5.33
PSS9P4444	E5.33
PSS9P4658	E5.33
PSS026	E5.13
PSS027	E5.13
PSS028	E5.13
PSS029	E5.13
PSSE001	E5.8
PSSE002	E5.8
PSSE003	E5.8

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
PSSE004	E5.8
PSSE007	E5.9
PSSE010	E5.9
PSSE013	E5.9
PSSE016	E5.9
PSSE018	E5.9
PSSE020	E5.9
PSSE023	E5.9
PSSFB4055	E5.28
PSSFB4057	E5.28
PSSFB4059	E5.28
PSSFC4034	E5.28
PSSFC4036	E5.28
PSSFC4038	E5.28
PSSFC4040	E5.28
PSSG4012	E5.31
PSSG4016	E5.31
PSSG4018	E5.31
PSSG4021	E5.31
PSSG4023	E5.31
PSSG4024	E5.31
PSSG4025	E5.31
PSSG4029	E5.31
PSSG4031	E5.31
PSSG4032	E5.31
PSSG4033	E5.31
PSSG4036	E5.31
PSSG4039	E5.31
PSSG4721	E5.31
PSSG4751	E5.31
PST-1	E5.44
PST-2	E5.44
PST-3	E5.39
PST-4	E5.44
PST-5	E5.44
PST-12	E5.39
PSTB001	E5.98
PSTB002	E5.98
PSTB003	E5.98
PSTB004	E5.98
PSTB005	E5.98
PSTB006	E5.98
PSTB007	E5.98
PSTB008	E5.98
PSTB009	E5.98
PSTB010	E5.98
PST-FO	E5.45
PST-FOBLNK	E5.45
PSWM-375Y	E3.8
PSWM-750Y	E3.8
PSWM-1500Y	E3.8
PSWMH-375Y	E3.8
PSWMH-750Y	E3.8
PT-1129	E5.42
PT-1158	E5.40
PT-1159	E5.40
PT-1160	E5.40
PT-1161	E5.40
PT-1162	E5.40
PT-1163	E5.40
PT-1164	E5.40
PT-1165	E5.40
PT-BGND	E5.45
PT-GND	E5.45
PTR-CLN	E1.12
PTS001	E5.78
PTS002	E5.78
PTS003	E5.78
PTS004	E5.78
PTS005	E5.78
PTS006	E5.78
PTS007	E5.78
PTS008	E5.80
PTS009	E5.80
PTS010	E5.80
PTS011	E5.80
PTS012	E5.80
PTS013	E5.80
PTS014	E5.80
PTS015	E5.80
PTS016	E5.80
PTS017	E5.80
PTS018	E5.80
PTS019	E5.80
PTS051	E5.78
PTS052	E5.78
PTS053	E5.78
PTS054	E5.78
PTS055	E5.78
PTS056	E5.78
PTS057	E5.78
PTS058	E5.78
PTS059	E5.78
PTS060	E5.78
PTS061	E5.78
PTS062	E5.78
PTS063	E5.78
PTS064	E5.78
PTS065	E5.78
PTS066	E5.78
PTS067	E5.78
PTS068	E5.78
PTS069	E5.78
PTS070	E5.78
PTS075	E5.77
PTS077	E5.78
PTS079	E5.78
PTS080	E5.77
PTS082	E5.78
PTS083	E5.77
PTS084	E5.77
PTS085	E5.77
PTS087	E5.78
PTS089	E5.78
PTS090	E5.77
PTS091	E5.77
PTS092	E5.77
PTS093	E5.77
PTS094	E5.77
PTS095	E5.77
PTS102	E5.77
PTS103	E5.77
PTS110	E5.77
PTS111	E5.77
PTS112	E5.77
PTS113	E5.77
PTS114	E5.77
PTS115	E5.77
PTS122	E5.77
PTS123	E5.77
PTS140	E5.77
PTS141	E5.77
PTS142	E5.77
PTS143	E5.77
PTS144	E5.77
PTS145	E5.77
PTS147	E5.78
PTS149	E5.78
PTS151	E5.78
PTS153	E5.78
PTS154	E5.81
PTS155	E5.81
PTS156	E5.81
PTS157	E5.82
PTS158	E5.82
PTS159	E5.82
PTS160	E5.80
PTS161	E5.80
PTS162	E5.80
PTS163	E5.80
PTS165	E5.78
PTS167	E5.78, E5.82
PTS168	E5.82
PTS169	E5.80
PTS170	E5.80
PTS171	E5.81
PTS172	E5.81
PTS173	E5.81
PTS174	E5.81
PTS175	E5.81
PTS176	E5.81
PTS177	E5.81
PTS178	E5.81
PTS179	E5.81
PTS180	E5.81
PTS181	E5.81
PTS182	E5.81
PTS183	E5.81
PTS184	E5.81
PTS185	E5.81
PTS186	E5.77
PTS187	E5.77
PTS188	E5.77
PTS190	E5.78
PTS192	E5.78
PTS194	E5.78
PTS196	E5.78
PTS198	E5.78
PTS200	E5.78
PTS201	E5.79
PTS202	E5.79
PTS203	E5.80
PT-TGND	E5.45
PUM-049-2S-D30	B2.20
PUM-049-M30	B2.20
PUM-071-2S-D30	B2.20

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
PUM-071-M30	B2.20
PUM-100-2S-D30	B2.20
PUM-100-M30	B2.20
PUM-925-3H-T30	B2.20
PUM-925-M30	B2.20
PUME925-3E-C350	B2.20
PUME925-4E-C350	B2.20
PUME925-D350	B2.20
PV2-10RX-XY	D1.15
PV2-10R-XY	D1.14
PV2-12RX-XY	D1.15
PV2-12R-XY	D1.14
PV2-14RX-XY	D1.15
PV2-14R-XY	D1.14
PV2-38RX-XY	D1.15
PV2-38R-XY	D1.14
PV2-56RX-XY	D1.15
PV2-56R-XY	D1.14
PV4-10R-E	D1.14
PV4-10RX-E	D1.15
PV4-12R-E	D1.14
PV4-12RX-E	D1.15
PV4-14R-E	D1.14
PV4-14RX-E	D1.15
PV4-38R-E	D1.14
PV4-38RX-E	D1.15
PV4-56R-E	D1.14
PV4-56RX-E	D1.15
PV6-8R-E	D1.14
PV6-8RX-E	D1.15
PV6-10R-X	D1.14
PV6-10RX-X	D1.15
PV6-12R-X	D1.14
PV6-14R-X	D1.14
PV6-14RX-X	D1.15
PV6-38R-X	D1.14
PV6-38RX-X	D1.15
PV6-56R-X	D1.14
PV6-56RX-X	D1.15
PV8-8RN-Q	D1.14
PV8-8R-QY	D1.14
PV8-8RX-QY	D1.15
PV8-10R-QY	D1.14
PV8-10RX-QY	D1.15
PV8-12RX-XY	D1.15
PV8-12R-XY	D1.14
PV8-14R-QY	D1.14
PV8-14RX-QY	D1.15
PV8-38R-QY	D1.14
PV8-38RX-QY	D1.15
PV8-56R-QY	D1.14
PV8-56RX-QY	D1.15
PV10-6FB-2K	D1.81
PV10-6F-L	D1.22
PV10-6LFB-2K	D1.84
PV10-6LF-L	D1.24
PV10-6LFX-L	D1.25
PV10-6RB-2K	D1.77
PV10-6R-L	D1.9
PV10-6RX-L	D1.10
PV10-8FB-2K	D1.81
PV10-8FFB-2K	D1.86
PV10-8FF-L	D1.26
PV10-8F-L	D1.22
PV10-8FX-L	D1.23
PV10-8LFB-2K	D1.84
PV10-8LF-L	D1.24
PV10-8LFX-L	D1.25
PV10-8RB-2K	D1.77
PV10-8R-L	D1.9
PV10-8RX-L	D1.10
PV10-10FB-2K	D1.81
PV10-10FFB-2K	D1.86
PV10-10FF-L	D1.26
PV10-10F-L	D1.22
PV10-10FX-L	D1.23
PV10-10LFB-2K	D1.84
PV10-10LF-L	D1.24
PV10-10LFX-L	D1.25
PV10-10RB-2K	D1.77
PV10-10R-L	D1.9
PV10-10RX-L	D1.10
PV10-12R-Q	D1.9
PV10-14FB-2K	D1.81
PV10-14F-L	D1.22
PV10-14FX-L	D1.23
PV10-14LFB-2K	D1.84
PV10-14LF-L	D1.24
PV10-14LFX-L	D1.25
PV10-14RB-2K	D1.77
PV10-14R-L	D1.9
PV10-14RX-L	D1.10
PV10-38RB-2K	D1.77
PV10-38R-L	D1.9
PV10-38RX-L	D1.10
PV10-56RB-2K	D1.77
PV10-56R-L	D1.9
PV10-56RX-L	D1.10
PV10-P55-LY	D1.45
PV12-6HDRB-2K	D1.78
PV12-6HDR-L	D1.13
PV12-6HDRX-L	D1.13
PV12-8HDRB-2K	D1.78
PV12-8HDR-L	D1.13
PV12-8HDRX-L	D1.13
PV12-10HDRB-2K	D1.78
PV12-10HDR-L	D1.13
PV12-10HDRX-L	D1.13
PV12-14HDRB-2K	D1.78
PV12-14HDR-L	D1.13
PV12-14HDRX-L	D1.13
PV12-38HDRB-2K	D1.78
PV12-38HDR-L	D1.13
PV12-38HDRX-L	D1.13
PV12-56HDRB-2K	D1.78
PV12-56HDR-L	D1.13
PV12-56HDRX-L	D1.13
PV14-4RB-3K	D1.77
PV14-4R-C	D1.9
PV14-4RX-C	D1.10
PV14-6FB-3K	D1.81
PV14-6F-C	D1.22
PV14-6FFB-3K	D1.86
PV14-6FF-C	D1.26
PV14-6FNB-3K	D1.81
PV14-6FN-C	D1.22
PV14-6FX-C	D1.23
PV14-6LFB-3K	D1.84
PV14-6LF-C	D1.24
PV14-6LFWB-3K	D1.84
PV14-6LFW-C	D1.24
PV14-6LFX-C	D1.25
PV14-6RB-3K	D1.77
PV14-6R-C	D1.9
PV14-6RNB-3K	D1.77
PV14-6RN-C	D1.9
PV14-6RX-C	D1.10
PV14-8FB-3K	D1.81
PV14-8F-C	D1.22
PV14-8FFB-3K	D1.86
PV14-8FF-C	D1.26
PV14-8FX-C	D1.23
PV14-8LFB-3K	D1.84
PV14-8LF-C	D1.24
PV14-8LFX-C	D1.25
PV14-8RB-3K	D1.77
PV14-8R-C	D1.9
PV14-8RX-C	D1.10
PV14-10FB-3K	D1.81
PV14-10F-C	D1.22
PV14-10FFB-3K	D1.86
PV14-10FF-C	D1.26
PV14-10FNB-3K	D1.81
PV14-10FN-C	D1.22
PV14-10FX-C	D1.23
PV14-10LFB-3K	D1.84
PV14-10LF-C	D1.24
PV14-10LFN-C	D1.24
PV14-10LFX-C	D1.25
PV14-10RB-3K	D1.77
PV14-10R-C	D1.9
PV14-10RX-C	D1.10
PV14-12R-L	D1.9
PV14-14FB-3K	D1.81
PV14-14F-C	D1.22
PV14-14RB-3K	D1.77
PV14-14R-C	D1.9
PV14-14RX-L	D1.10
PV14-38RB-2K	D1.77
PV14-38R-L	D1.9
PV14-38RX-L	D1.10
PV14-56RB-2K	D1.77
PV14-56R-C	D1.9
PV14-56RX-L	D1.10
PV14-P47B-3K	D1.95
PV14-P47-C	D1.45
PV18-4RB-3K	D1.77
PV18-4R-CY	D1.9
PV18-4RNB-3K	D1.77
PV18-4RX-CY	D1.10
PV18-6FB-3K	D1.81
PV18-6F-CY	D1.22
PV18-6FFB-3K	D1.86
PV18-6FF-CY	D1.26
PV18-6FNB-3K	D1.81
PV18-6FN-CY	D1.22

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
PV18-6FX-CY	D1.23
PV18-6LFB-3K	D1.84
PV18-6LF-CY	D1.24
PV18-6LFWB-3K	D1.84
PV18-6LFW-CY	D1.24
PV18-6LFX-CY	D1.25
PV18-6RB-3K	D1.77
PV18-6R-CY	D1.9
PV18-6RNB-3K	D1.77
PV18-6RX-CY	D1.10
PV18-8FB-3K	D1.81
PV18-8F-CY	D1.22
PV18-8FFB-3K	D1.86
PV18-8FF-CY	D1.26
PV18-8FX-CY	D1.23
PV18-8LFB-3K	D1.84
PV18-8LF-CY	D1.24
PV18-8LFX-CY	D1.25
PV18-8RB-3K	D1.77
PV18-8R-CY	D1.9
PV18-8RX-CY	D1.10
PV18-10FB-3K	D1.81
PV18-10F-CY	D1.22
PV18-10FFB-3K	D1.86
PV18-10FF-CY	D1.26
PV18-10FN-CY	D1.22
PV18-10FX-CY	D1.23
PV18-10LFB-3K	D1.84
PV18-10LF-CY	D1.24
PV18-10LFNB-3K	D1.84
PV18-10LFN-CY	D1.24
PV18-10LFX-CY	D1.25
PV18-10RB-3K	D1.77
PV18-10R-CY	D1.9
PV18-10RX-CY	D1.10
PV18-12R-LY	D1.9
PV18-14FB-3K	D1.81
PV18-14RB-3K	D1.77
PV18-14R-CY	D1.9
PV18-14RX-CY	D1.10
PV18-38RB-2K	D1.77
PV18-38R-LY	D1.9
PV18-38RX-LY	D1.10
PV18-56RB-2K	D1.77
PV18-56R-CY	D1.9
PV18-56RX-LY	D1.10
PV18-P47B-3K	D1.95
PV18-P47-CY	D1.45
PV22-2R-CY	D1.9
PV22-4F-CY	D1.22
PV22-4R-CY	D1.9
PV22-6F-CY	D1.22
PV22-6R-CY	D1.9
PV22-8R-CY	D1.9
PV22-10R-CY	D1.9
PVL100BY-*-Y	E5.29
PVL200BY-*-Y	E5.29
PVS0109D72Y	E5.15
PVS0204C171Y	E5.15
PVS0204C176Y	E5.15
PVS0204C177Y	E5.15
PVS0204C178Y	E5.15
PVS0204C179Y	E5.15
PVS0204D72Y	E5.15
PVS0209D445Y	E5.15
PVS0305C174Y	E5.15
PVS0305GHS	E5.73
PVS0503N458Y	E5.15
PVS0505C174Y	E5.15
PVS0710C173Y	E5.15
PVS0710C180Y	E5.15
PVS0710C4029-C	E5.15
PVS0710C4029-L	E5.15
PVS0710D4019-C	E5.15
PVS0710D4019-L	E5.15
PVS0710W4025-C	E5.15
PVS0710W4025-L	E5.15
PVS1224B3437	E5.21
PVS1224B3505	E5.21
PVT-9-Q	E5.36
PVT-23	E5.36
PVT-30	E5.36
PVT-44	E5.36
PVT-56-Q	E5.36
PVT-57-Q	E5.36
PVT-62-Q	E5.36
PVT-96	E5.36
PVT-97	E5.36
PVT-97S-Q	E5.37
PVT-98	E5.36
PVT-99	E5.36
PVT-110	E5.36
PVT-111	E5.36
PVT-112	E5.36
PVT-148-Q	E5.36
PVT-150-Q	E5.36
PVT-153-Q	E5.36
PVT-155-Q	E5.36
PVT-156-Q	E5.36
PVT-157-Q	E5.36
PVT-160-Q	E5.36
PVT-161-Q	E5.37
PVT-165-Q	E5.37
PVT-238-Q	E5.36
PVT-1062	E5.41
PVT-1062-Q	E5.41
PVT-1069-Q	E5.42
PVT-1070-Q	E5.42
PVT-1071-Q	E5.42
PVT-1072-Q	E5.42
PVT-1073-Q	E5.42
PVT-1074-Q	E5.42
PVT-1075-Q	E5.42
PVT-1076-Q	E5.42
PVT-1157	E5.42
PVT-1157-Q	E5.42
PVT-1162	E5.41
PVT-1162-Q	E5.41
PVT-GHS-Q	E5.73
PW50FR-T20Y	C3.2
PW50FR-TY	C3.2
PW50F-T	C3.2
PW50F-T3	C3.2
PW50F-T4	C3.2
PW50F-T20	C3.2
PW75F-C	C3.2
PW75F-C3	C3.2
PW75F-C4	C3.2
PW75F-C20	C3.2
PW75FR-C20Y	C3.2
PW75FR-CY	C3.2
PW100F-C	C3.2
PW100F-C3	C3.2
PW100F-C4	C3.2
PW100F-C20	C3.2
PW100FR-C20Y	C3.2
PW100FR-CY	C3.2
PW150F-L	C3.2
PW150F-L3	C3.2
PW150F-L4	C3.2
PW150F-L20	C3.2
PW150FR-L20Y	C3.2
PW150FR-LY	C3.2
PWMS-H25-C	B2.17
PWMS-H25-M0	B2.17
PWT38	C3.3
PWT50	C3.3
PWT75	C3.3
PWT100	C3.3
PWT150	C3.3
PX-0	B1.49, B2.26
PX-2	B1.49, B2.26
PX-10	B1.49, B2.26
PZNWE12	G1.12
PZNWE14	G1.12
QB-BASE120-Q	B2.45
QB-BASE175-Q	B2.45
QB-CONN	B2.47
QB-FN1-Q	B2.46
QB-FN2-Q	B2.46
QB-FN3-Q	B2.46
QB-KIT2	B2.44
QB-KIT2-GRY	B2.44
QB-MOUNT-L	B2.45
QB-RER1.25-X	B2.47
QB-RER.5-X	B2.47
QB-RER.75-X	B2.47
QB-RERBASE-X	B2.47
QB-S6-500-C	B2.45
QB-S8-500-C	B2.45
QB-S8-750-C	B2.45
QB-S25-500-C	B2.45
QB-S25-1000-L	B2.45
QB-SN1-Q	B2.46
QB-SN2-Q	B2.46
QB-SN3-Q	B2.46
QB-TILE	B2.44
QB-TILE-GRY	B2.44
QB-WASHER-Q	B2.45
QB-WEH1012-Q	B2.46
QB-WEH1416-Q	B2.46
QB-WEH1822-Q	B2.46
R050X075V1T	E2.2
R050X075X1J	E2.24
R050X125V1T	E2.2
R050X125X1J	E2.24

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Part Number Index

Part Number	Page Number
R050X150V1T	E2.2
R050X150X1J	E2.24
R100X075V1C	E1.6
R100X075V1T	E2.2
R100X075X1J	E2.24
R100X125V1T	E2.2
R100X125VIC	E1.6
R100X125X1J	E2.24
R100X150V1C	E1.6
R100X150V1T	E2.2
R100X150V2C	E1.6
R100X150V2T	E2.2
R100X150V3C	E1.6
R100X150V3T	E2.2
R100X150V4T	E2.2
R100X150V7C	E1.6
R100X150V7T	E2.2
R100X150V8T	E1.6, E2.2
R100X150X1J	E2.24
R100X150X2J	E2.24
R100X150X3J	E2.24
R100X150X7J	E2.24
R100X150X8J	E2.24
R100X225V1C	E1.6
R100X225V1T	E2.2
R100X225V2C	E1.6
R100X225V2T	E2.2
R100X225V3C	E1.6
R100X225V3T	E2.2
R100X225V4T	E2.2
R100X225V7C	E1.6
R100X225V7T	E2.2
R100X225V8C	E1.6
R100X225V8T	E2.2
R100X225X1J	E2.24
R100X225X2J	E2.24
R100X225X3J	E2.24
R100X225X7J	E2.24
R100X225X8J	E2.24
R100X400V1T	E2.2
R100X400X1J	E2.24
R150X150V1T	E2.2
R150X150X1J	E2.24
R200X150V1T	E2.2
R200X150X1J	E2.24
R200X225V1T	E2.2
R200X225X1J	E2.24
R200X400V1T	E2.2
R200X400X1J	E2.24
RAEFXIW-X	C2.7
RAF3IW-E	C2.6
RAF5IW-E	C2.6
RAF10IW-X	C2.6
RAFC3IW-X	C2.6
RAFC5IW-X	C2.6
RAFC10IW-X	C2.6
RAFCBI1-S6-C20	B2.22
RAFCBI2-S6-C20	B2.22
RAFCBI3-S6-C20	B2.22
RAFX3IW-X	C2.7
RAFX5IW-X	C2.7
RAFX10IW-X	C2.7, C2.8
RAMH-S6-D	B2.15
RAMH-S10-D	B2.15
RAMS-S3-M	B2.15
RER1.25-S6-X	B2.47
RER2.0-S6-X	B2.47
RER.5-S6-X	B2.47
RER.75-S6-X	B2.47
RF5X3IW-E	C2.6
RF10X3IW-X	C2.6
RF10X5IW-X	C2.6
RFX53IW-X	C2.7
RFX103IW-X	C2.7
RFX105IW-X	C2.7
RHEH4BL	E1.13
RHER4BL	E1.13
RHER4BL-A	E1.13
RHER4BL-C	E1.13
RHER4BL-E	E1.13
RHER4WH	E1.13
RMEH4BL	E1.12
RMER4BL	E1.12
RMER4BL-A	E1.12
RMER4BL-C	E1.12
RMER4BU	E1.12
RMER4GR	E1.12
RMER4RD	E1.12
RMER4WH	E1.12
RSC1/0-4-X	D2.45
RSC1/0-6-X	D2.45
RSC2/0-4-X	D2.46
RSC2/0-6-X	D2.45
RSC2-4-Q	D2.45
RSC2-6-Q	D2.45
RSC4/0-1/0-X	D2.46
RSC4/0-2/0-X	D2.46
RSC4/0-4-X	D2.46
RSC4/0-6-X	D2.46
RSC4-6-L	D2.45
RSC500-X4/0-6	D2.46
RSC500-X350-6	D2.46
RSC750-4/0-6	D2.46
RSC750-500-6	D2.46
RSC750-750-6	D2.46
RSC750-X4/0-6	D2.46
RSC750-X350-6	D2.46
RSC750-X500-6	D2.46
RSCK1/0-4-1	D2.43
RSCK1/0-6-1	D2.43
RSCK2/0-4-1	D2.43
RSCK2/0-6-1	D2.43
RSCK2-4-1	D2.43
RSCK2-6-1	D2.43
RSCK4/0-1/0-1	D2.43
RSCK4/0-2/0-1	D2.43
RSCK4/0-4-1	D2.43
RSCK4/0-6-1	D2.43
RSCK4-6-1	D2.43
RSCK500-X4/0-1	D2.43
RSCK500-X350-1	D2.44
RSCK750-4/0-1	D2.44
RSCK750-500-1	D2.44
RSCK750-750-1	D2.44
RSCK750-X4/0-1	D2.44
RSCK750-X350-1	D2.44
RSCK750-X500-1	D2.44
RSCKX750-4/0-1	D2.44
RSCKX750-750-1	D2.44
RSCX750-4/0-3	D2.46
RSCX750-750-3	D2.46
S1/0-12R-X	D1.19, D2.8
S1/0-14R-X	D1.19, D2.8
S1/0-38R-X	D1.19, D2.8
S1/0-56R-X	D1.19, D2.8
S1.5F-C	C1.34
S1F-C	C1.34
S2/0-12R-X	D1.19, D2.8
S2/0-14R-X	D1.19, D2.8
S2/0-38R-X	D1.19, D2.8
S2/0-56R-X	D1.19, D2.8
S2/0-76R-X	D1.19, D2.8
S2-10R-X	D1.19, D2.8
S2-12R-X	D1.19, D2.8
S2-14R-X	D1.19, D2.8
S2-38R-X	D1.19, D2.8
S2-56R-X	D1.19, D2.8
S2F-C	C1.34
S3/0-12R-5	D1.19, D2.8
S3/0-14R-5	D1.19, D2.8
S3/0-38R-5	D1.19, D2.8
S3/0-56R-5	D1.19, D2.8
S3/0-76R-5	D1.19, D2.8
S3F-C	C1.34
S4/0-12R-5	D1.19, D2.8
S4/0-38R-5	D1.19, D2.8
S4/0-56R-5	D1.19, D2.8
S4/0-76R-5	D1.19, D2.8
S4-10R-E	D1.19, D2.8
S4-14R-E	D1.19, D2.8
S4-38R-E	D1.19, D2.8
S4-56R-E	D1.19, D2.8
S4F-C	C1.34
S6-10R-E	D1.19, D2.8
S6-14R-E	D1.19, D2.8
S6-38R-E	D1.19, D2.8
S6-56R-E	D1.19, D2.8
S8-10R-Q	D1.19, D2.8
S8-14R-Q	D1.19, D2.8
S8-38R-Q	D1.19, D2.8
S8-56R-Q	D1.19, D2.8
S050X075VA1Y	E2.3
S050X075VAC	E1.4
S050X075VATY	E2.3
S050X075YAJ	E2.25
S050X125VA1Y	E2.3
S050X125VAC	E1.4
S050X125VATY	E2.3
S050X125YAJ	E2.25
S050X150TAT-A	E2.5
S050X150VA1Y	E2.3
S050X150VAC	E1.4
S050X150VATY	E2.3
S050X150YAJ	E2.25
S050X250VATY	E2.3
S075X075VAC	E1.4

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
S075X075VATY	E2.3
S075X075YAJ	E2.25
S075X100VAC	E1.4
S075X100VATY	E2.3
S075X125TAT-A	E2.5
S075X125VAC	E1.4
S075X125VATY	E2.3
S075X125YAJ	E2.25
S075X150VAC	E1.4
S075X150VATY	E2.3
S075X150YAJ	E2.25
S100X075TAT-A	E2.5
S100X075VA1Y	E2.3
S100X075VAC	E1.4
S100X075VATY	E2.3
S100X075YAJ	E2.25
S100X125TAT-A	E2.5
S100X125VA1Y	E2.3
S100X125VAC	E1.4
S100X125VAFY	E3.10
S100X125VARY	E3.10
S100X125VATY	E2.3
S100X125YAJ	E2.25
S100X150TAJ-A	E2.26
S100X150TAT-A	E2.5
S100X150V0TY	E2.3
S100X150V9TY	E2.3
S100X150VA1Y	E2.3
S100X150VAC	E1.4
S100X150VATY	E2.3
S100X150VBC	E1.4
S100X150VBTY	E2.3
S100X150VCTY	E2.3
S100X150VDC	E1.4
S100X150VDTY	E2.3
S100X150VETY	E2.3
S100X150VFTY	E2.3
S100X150VGTY	E2.3
S100X150VHC	E1.4
S100X150VHTY	E2.3
S100X150VIC	E1.4
S100X150VITY	E2.3
S100X150YAJ	E2.25
S100X150YBJ	E2.25
S100X150YCJ	E2.25
S100X150YDJ	E2.25
S100X150YEJ	E2.25
S100X150YFJ	E2.25
S100X150YGJ	E2.25
S100X150YHJ	E2.25
S100X150YIJ	E2.25
S100X225TAJ-A	E2.26
S100X225TAT-A	E2.5
S100X225V0TY	E2.4
S100X225V9TY	E2.4
S100X225VA1Y	E2.4
S100X225VAC	E1.4
S100X225VAFY	E3.10
S100X225VARY	E3.10
S100X225VATY	E2.4
S100X225VBTY	E2.4
S100X225VCTY	E2.4
S100X225VDC	E1.4
S100X225VDTY	E2.4
S100X225VETY	E2.4
S100X225VFTY	E2.4
S100X225VGTY	E2.4
S100X225VHC	E1.4
S100X225VHTY	E2.4
S100X225VIC	E1.4
S100X225VITY	E2.4
S100X225YAJ	E2.25
S100X225YBJ	E2.25
S100X225YCJ	E2.25
S100X225YDJ	E2.25
S100X225YEJ	E2.25
S100X225YFJ	E2.25
S100X225YGJ	E2.25
S100X225YHJ	E2.25
S100X225YIJ	E2.25
S100X250VA1Y	E2.4
S100X250VATY	E2.4
S100X400TAT-A	E2.5
S100X400VA1Y	E2.4
S100X400VAC	E1.4
S100X400VATY	E2.4
S100X400YAJ	E2.25
S100X650VA1Y	E2.4
S100X650VAC	E1.4
S100X650VATY	E2.4
S100X650YAJ	E2.25
S150X150VATY	E2.4
S150X225VATY	E2.4
S150X400VATY	E2.4
S150X400YAJ	E2.25
S150X400YIJ	E2.25
S200X150VATY	E2.4
S200X150YAJ	E2.25
S200X225VA1Y	E2.4
S200X225VATY	E2.4
S200X225YAJ	E2.25
S200X250VATY	E2.4
S200X400TAT-A	E2.5
S200X400VA1Y	E2.4
S200X400VATY	E2.4
S200X400YAJ	E2.25
S200X650VA1Y	E2.4
S200X650VATY	E2.4
S200X650YAJ	E2.25
S250-12R-5	D1.19, D2.8
S250-38R-5	D1.19, D2.8
S250-56R-5	D1.19, D2.8
S250-76R-5	D1.19, D2.8
S7212	E5.22
S7213	E5.22
S7214	E5.22
S7239	E5.23
SA1/0-X	D2.63
SA1-X	D2.63
SA2/0-5	D2.63
SA2-X	D2.63
SA3/0-5	D2.63
SA4/0-5	D2.63
SA4-XR	D2.63
SA6-X	D2.63
SA250-5	D2.63
SA300-2	D2.63
SA350-2	D2.63
SA400-2	D2.63
SA500-2	D2.63
SA600-2	D2.63
SA750-1	D2.63
SA800-1	D2.63
SA900-1	D2.63
SA1000-1	D2.63
SACS50-T100	B1.52, B2.25
SBA1/0-Q	D2.69
SBA2/0-Q	D2.69
SBA2-C	D2.69
SBA4/0-Q	D2.69
SBA4-C	D2.69
SBA6-C	D2.69
SBA350-1	D2.69
SBA500-1	D2.69
SBBOLT2550-C	D2.102
SBBOLT2562-C	D2.102
SBBOLT2575-C	D2.102
SBBOLT3150-C	D2.102
SBBOLT3162-C	D2.102
SBBOLT3175-C	D2.102
SBBOLT3850-C	D2.102
SBBOLT3862-C	D2.102
SBBOLT3875-C	D2.102
SBBOLT5050-C	D2.102
SBBOLT5062-C	D2.102
SBBOLT5075-C	D2.102
SBBOLT6250-C	D2.102
SBBOLT6262-C	D2.102
SBBOLT25100-C	D2.102
SBBOLT25125-C	D2.102
SBBOLT25150-C	D2.102
SBBOLT25200-C	D2.102
SBBOLT25250-C	D2.102
SBBOLT25300-C	D2.102
SBBOLT31100-C	D2.102
SBBOLT31125-C	D2.102
SBBOLT31150-C	D2.102
SBBOLT31175-C	D2.102
SBBOLT31200-C	D2.102
SBBOLT31250-C	D2.102
SBBOLT31300-C	D2.102
SBBOLT38100-C	D2.102
SBBOLT38125-C	D2.102
SBBOLT38150-C	D2.102
SBBOLT38175-C	D2.102
SBBOLT38200-C	D2.102
SBBOLT38250-C	D2.102
SBBOLT38300-C	D2.102
SBBOLT44150-C	D2.102
SBBOLT44200-C	D2.102
SBBOLT50100-C	D2.102
SBBOLT50125-C	D2.102
SBBOLT50150-C	D2.102
SBBOLT50175-C	D2.102
SBBOLT50200-C	D2.102
SBBOLT50250-C	D2.102

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Part Number Index

Part Number	Page Number
SBBOLT50300-L	D2.102
SBBOLT62100-C	D2.102
SBBOLT62125-C	D2.102
SBBOLT62150-L	D2.102
SBBOLT62200-L	D2.102
SBBOLT62250-L	D2.102
SBBOLT62300-L	D2.102
SBC1/0-L	D2.67
SBC2/0-Q	D2.67
SBC2-C	D2.67
SBC2L-C	D2.67
SBC3/0-Q	D2.67
SBC3-C	D2.67
SBC4S-C	D2.67
SBC4SL-C	D2.67
SBC6S-C	D2.67
SBC6SL-C	D2.67
SBC8-C	D2.67
SBC8L-C	D2.67
SBC250-Q	D2.67
SBC350-1	D2.67
SBC500-1	D2.67
SBC750-1	D2.67
SBC1000-1	D2.67
SBCT1/0-L	D2.68
SBCT2/0-Q	D2.68
SBCT2-C	D2.68
SBCT3/0-Q	D2.68
SBCT3-C	D2.68
SBCT6-C	D2.68
SBCT8-C	D2.68
SBCT10-C	D2.68
SBCT250-Q	D2.68
SBCT350-1	D2.68
SBCT500-1	D2.68
SBCT750-1	D2.68
SBCT1000-1	D2.68
SBFW25-C	D2.103
SBFW31-C	D2.103
SBFW38-C	D2.103
SBFW44-C	D2.103
SBFW50-C	D2.103
SBFW62-C	D2.103
SBITW25-C	D2.103
SBITW31-C	D2.103
SBITW38-C	D2.103
SBITW44-C	D2.103
SBITW50-C	D2.103
SBITW62-C	D2.103
SBNUT25-C	D2.103
SBNUT31-C	D2.103
SBNUT38-C	D2.103
SBNUT44-C	D2.103
SBNUT50-C	D2.103
SBNUT62-C	D2.103
SBSLW25-C	D2.103
SBSLW31-C	D2.103
SBSLW38-C	D2.103
SBSLW44-C	D2.103
SBSLW50-C	D2.103
SBSLW62-C	D2.103
SCL1/0-X	D2.27
SCL1-E	D2.27
SCL2/0-X	D2.27
SCL2-Q	D2.27
SCL3/0-X	D2.27
SCL4/0-X	D2.27
SCL4-L	D2.27
SCL6-L	D2.27
SCL8-L	D2.27
SCL250-X	D2.27
SCL300-X	D2.27
SCL350-X	D2.27
SCL400-6	D2.27
SCL500-6	D2.27
SCL600-6	D2.27
SCL750-6	D2.27
SCL1000-3	D2.27
SCMS10-C	D2.59
SCMS16-C	D2.59
SCMS25-L	D2.59
SCMS35-L	D2.59
SCMS50-L	D2.59
SCMS70-L	D2.59
SCMS95-Q	D2.59
SCMS120-Q	D2.59
SCMS150-X	D2.59
SCMS185-X	D2.59
SCMS240-X	D2.59
SCMS300-5	D2.59
SCMS400-5	D2.59
SCMS500-6	D2.59
SCMS630-6	D2.59
SCMSX300-5	D2.59
SCS1/0-X	D2.26
SCS1-E	D2.26
SCS2/0-X	D2.26
SCS2-Q	D2.26
SCS3/0-X	D2.26
SCS4/0-X	D2.26
SCS4-L	D2.26
SCS6-L	D2.26
SCS8-L	D2.26
SCS250-X	D2.26
SCS300-X	D2.26
SCS350-X	D2.26
SCS400-6	D2.26
SCS500-6	D2.26
SCS600-6	D2.26
SCS750-6	D2.26
SCS1000-3	D2.26
SCSF1/0-X	D2.42
SCSF1-X	D2.42
SCSF2/0-X	D2.42
SCSF2-E	D2.42
SCSF3/0-X	D2.42
SCSF4/0-X	D2.42
SCSF4-L	D2.42
SCSF6-L	D2.42
SCSF8-L	D2.42
SCSF250-X	D2.42
SCSF300-6	D2.42
SCSF350-6	D2.42
SCSX2/0-X	D2.41
SCSX4/0-X	D2.41
SCSX4-L	D2.41
SCSX6-L	D2.41
SCSX8-L	D2.41
SD2EMI	C1.7, C1.37
SD2H6	C1.30
SD2HWH6	C1.30
SD3EMI	C1.7, C1.37
SD3H6	C1.30
SD3HWH6	C1.30
SD4EMI	C1.7, C1.37
SD4H6	C1.30
SD4HWH6	C1.30
SDCLIP	C1.7
SE12PFR-MR0	C3.14
SE12PFR-MR8	C3.14
SE12PFR-MR10	C3.14
SE12PFR-TR0	C3.14
SE12PFR-TR8	C3.14
SE12P-MR0	C3.13
SE12P-MR10	C3.13
SE12PS-4CR0	C3.16
SE12PSC-TR0	C3.15
SE12PSFR-4CR0	C3.16
SE12P-TR0	C3.13
SE12P-TR8	C3.13
SE25PFR-MR0	C3.14
SE25PFR-MR8	C3.14
SE25PFR-MR10	C3.14
SE25PFR-TR0	C3.14
SE25PFR-TR8	C3.14
SE25P-MR0	C3.13
SE25P-MR8	C3.13
SE25P-MR10	C3.13
SE25PSC-TR0	C3.15
SE25PSFR-TR0	C3.16
SE25PS-TR0	C3.16
SE25P-TR0	C3.13
SE25P-TR8	C3.13
SE38PFR-MR0	C3.14
SE38PFR-MR8	C3.14
SE38PFR-MR10	C3.14
SE38PFR-TR0	C3.14
SE38PFR-TR8	C3.14
SE38P-MR0	C3.13
SE38P-MR8	C3.13
SE38P-MR10	C3.13
SE38PSC-TR0	C3.15
SE38P-TR0	C3.13
SE38P-TR8	C3.13
SE50P-CR0	C3.13
SE50P-CR8	C3.13
SE50P-DR0	C3.13
SE50P-DR8	C3.13
SE50P-DR10	C3.13
SE50PFR-CR0	C3.14
SE50PFR-CR8	C3.14
SE50PFR-DR0	C3.14
SE50PFR-DR8	C3.14
SE50PFR-DR10	C3.14
SE50PSC-CR0	C3.15
SE50PS-CLR0	C3.16

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
SE50PSFR-CLR0	C3.16
SE75P-CR0	C3.13
SE75P-CR8	C3.13
SE75P-DR0	C3.13
SE75P-DR8	C3.13
SE75P-DR10	C3.13
SE75PFR-CR0	C3.14
SE75PFR-CR8	C3.14
SE75PFR-DR0	C3.15
SE75PFR-DR8	C3.15
SE75PFR-DR10	C3.15
SE75PSC-CR0	C3.15
SE75PS-CR0	C3.16
SE75PSFR-CR0	C3.16
SE100PS-CR0	C3.16
SE100PSFR-CR0	C3.16
SE125PFR-LR0	C3.15
SE125PFR-LR8	C3.15
SE125PFR-TR0	C3.15
SE125PFR-TR8	C3.15
SE125PFR-TR10	C3.15
SE125P-LR0	C3.14
SE125P-LR8	C3.14
SE125PSC-LR0	C3.15
SE125P-TR0	C3.14
SE125P-TR8	C3.14
SE125P-TR10	C3.14
SE150PFR-LR0	C3.15
SE150PFR-LR8	C3.15
SE150PFR-TR0	C3.15
SE150PFR-TR8	C3.15
SE150PFR-TR10	C3.15
SE150P-LR0	C3.14
SE150P-LR8	C3.14
SE150PSC-LR0	C3.15
SE150PSFR-LQR0	C3.16
SE150PS-LQR0	C3.16
SE150P-TR0	C3.14
SE150P-TR8	C3.14
SE150P-TR10	C3.14
SE175PFR-TR0	C3.15
SE175P-TR0	C3.14
SE200P-TR0	C3.14
SE250P-TR0	C3.14
SEZ-1CLL	E5.34
SEZ-1DLL	E5.34
SEZ-1NLL	E5.34
SEZ-1WHLL	E5.34
SEZ-1WLL	E5.34
SEZ-1YLL	E5.34
SEZ-RSC1	E5.34
SEZ-RSC2	E5.34
SEZ-RSC3	E5.34
SEZ-RSC4	E5.34
SEZ-SNC1	E5.34
SEZ-SNC2	E5.34
SEZ-SNC3	E5.34
SEZ-SNC4	E5.34
SEZ-TAGOR	E5.44
SEZ-TAGWH	E5.44
SEZ-TAGY	E5.44
SG100M-C	B1.38, B1.40
SG100M-C0	B1.39
SG100M-M	B1.40
SG150I-C	B1.38, B1.40
SG150I-C0	B1.39
SG150I-M	B1.40
SG200S-C	B1.38, B1.40
SG200S-C0	B1.39
SG200S-M	B1.40
SG200S-M30	B1.39
SG250S-C	B1.38, B1.40
SG250S-C0	B1.39
SG300S-C	B1.38, B1.40
SG300S-C0	B1.39
SG300S-M	B1.40
SG300S-M30	B1.39
SG350LH-L	B1.38, B1.40
SG350LH-L0	B1.39
SG350LH-TL	B1.40
SG350LH-TL30	B1.39
SG370S-C	B1.38, B1.40
SG370S-C0	B1.39
SG370S-M	B1.40
SG450H-C	B1.40
SG450H-L	B1.38, B1.40
SG450H-L0	B1.39
SGABM20	B2.6
SGABM25	B2.6
SGABM30	B2.6
SGABM40	B2.6
SGABM50	B2.6
SGMPMH38-L0	B2.19
SGMPMS19-C0	B2.19
SGMPMS25-C0	B2.19
SGMPMWH32-L0	B2.19
SGTA1S8-C*	B2.11
SGTM1S6-C	B2.9
SGTM2S8-C	B2.9
SGTM3S10-C	B2.9
SHH1-S8-X	B2.49
SHH3-S8-X	B2.49
SICH25-C	B2.39
SICH38-C	B2.39
SICH50-C	B2.39
SICH75-C	B2.39
SICH100-C	B2.39
SICH150-C	B2.39
SLCT-3	E5.44
SLCT-3OR	E5.44
SLCT-3YL	E5.44
SLCT-IG	E5.44
SLCT-OR	E5.44
SLCT-WH	E5.44
SLCT-YL	E5.44
SMS-A-C	B2.7
SMS-A-C14	B2.7
SMS-A-C15	B2.7
SMS-S6-D	B2.7
SNS1.5-C	C1.34
SNS1-C	C1.34
SNS2-C	C1.34
SNS3-C	C1.34
SNS.5-C	C1.34
SNS25F-C	C1.34
SNS37F-C	C1.34
SNS50F-C	C1.34
SNS62F-C	C1.34
SNS.75-C	C1.34
SNS75F-C	C1.34
SP1-1/0-L	D3.18
SP1-1/0L-L	D3.18
SP1-2/0L-Q	D3.18
SP1-2/0-Q	D3.18
SP1-2-C	D3.18
SP1-2L-C	D3.18
SP1-3-C	D3.18
SP1-3L-C	D3.18
SP1-4/0L-Q	D3.18
SP1-4/0-Q	D3.18
SP1-4-C	D3.18
SP1-4L-C	D3.18
SP1-7-C	D3.18
SP1-7L-C	D3.18
SP1-8-C	D3.18
SP1-8L-C	D3.18
SP1-350-12	D3.18
SP1-350L-12	D3.18
SP1-500-12	D3.18
SP1-500L-12	D3.18
SP2-1/0-L	D3.19
SP2-1/0L-L	D3.19
SP2-2/0L-Q	D3.19
SP2-2/0-Q	D3.19
SP2-2-C	D3.19
SP2-2L-C	D3.19
SP2-3-C	D3.19
SP2-3L-C	D3.19
SP2-4/0L-Q	D3.19
SP2-4/0-Q	D3.19
SP2-4-C	D3.19
SP2-4L-C	D3.19
SP2-7-C	D3.19
SP2-7L-C	D3.19
SP2-8-C	D3.19
SP2-8L-C	D3.19
SP2-350-12	D3.19
SP2-350L-12	D3.19
SP2-500-12	D3.19
SP2-500L-12	D3.19
SR-0-XY	D2.88
SR2	B1.79, D1.29
SR-2-XY	D2.88
SR4	D1.29
SR-4/0-XY	D2.88
SR6	D1.29
SR-250-XY	D2.88
SR-350-XY	D2.88
SR-500-3Y	D2.88
SR-750-1Y	D2.88
SR-1000-1Y	D2.88
SRB19BLY	F.3
SRBM19BLY	F.3
SRBS19BL-XY	F.3
SSB2S-C	B1.73, B1.77
SSB2S-M	B1.77

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Part Number Index

Part Number	Page Number
SSB2S-M0	B1.73
SSB2S-M30	B1.73
SSBOLT2525-C	D2.104
SSBOLT2550-C	D2.104
SSBOLT2562-C	D2.104
SSBOLT2575-C	D2.104
SSBOLT3150-C	D2.104
SSBOLT3162-C	D2.104
SSBOLT3175-C	D2.104
SSBOLT3850-C	D2.104
SSBOLT3862-C	D2.104
SSBOLT3875-C	D2.104
SSBOLT5050-C	D2.104
SSBOLT5062-C	D2.104
SSBOLT5075-C	D2.104
SSBOLT6250-C	D2.104
SSBOLT6262-C	D2.104
SSBOLT6275-C	D2.104
SSBOLT25125-C	D2.104
SSBOLT25150-C	D2.104
SSBOLT25175-C	D2.104
SSBOLT25200-C	D2.104
SSBOLT25250-C	D2.104
SSBOLT25300-C	D2.104
SSBOLT31100-C	D2.104
SSBOLT31125-C	D2.104
SSBOLT31150-C	D2.104
SSBOLT31175-C	D2.104
SSBOLT31200-C	D2.104
SSBOLT31250-C	D2.104
SSBOLT31300-C	D2.104
SSBOLT38125-C	D2.104
SSBOLT38150-C	D2.104
SSBOLT38175-C	D2.104
SSBOLT38200-C	D2.104
SSBOLT38250-C	D2.104
SSBOLT38300-C	D2.104
SSBOLT50100-C	D2.104
SSBOLT50125-C	D2.104
SSBOLT50150-C	D2.104
SSBOLT50175-C	D2.104
SSBOLT50200-C	D2.104
SSBOLT50250-C	D2.104
SSBOLT50300-L	D2.104
SSBOLT62100-C	D2.104
SSBOLT62125-C	D2.104
SSBOLT62150-L	D2.104
SSBOLT62175-L	D2.104
SSBOLT62200-L	D2.104
SSBOLT62250-L	D2.104
SSBOLT62300-L	D2.104
SSC2S-S6-C	B1.67, B1.69
SSC2S-S6-M	B1.69
SSC2S-S6-M0	B1.67
SSC2S-S10-C	B1.67, B1.69
SSC2S-S10-M	B1.69
SSC2S-S10-M0	B1.67
SSC2S-S10-M30	B1.67
SSC4H-S25-D	B1.69
SSC4H-S25-D0	B1.67
SSC4H-S25-D30	B1.67
SSC4H-S25-L	B1.67, B1.69
SSC4S-S10-C	B1.67, B1.69
SSC4S-S10-M	B1.69
SSCW14-C	D3.7
SSCW38-C	D3.7
SSFW14-C	D2.105, D3.7
SSFW31-C	D2.105
SSFW38-C	D2.105, D3.7
SSFW50-C	D2.105
SSFW62-C	D2.105
SSM2S-C	B1.68, B1.69
SSM2S-D	B1.69
SSM2S-D0	B1.68
SSM4S-D	B1.68, B1.69
SSN1420-C	D2.105, D3.7
SSN3816-C	D2.105, D3.7
SSNTS1420-C	D2.104, D3.7
SSNTS3816-C	D2.104, D3.7
SSNUT31-C	D2.105
SSNUT50-C	D2.105
SSNUT62-C	D2.105
SSPM2.5H-L	B1.77
SSPM2.5H-L300	B1.75
SSPM2.5HP-L	B1.77
SSPM2.5HP-L300	B1.75
SSPM2.5HP-TL	B1.77
SSPM2.5H-TL	B1.77
SSPM4H-L	B1.77
SSPM4H-L300	B1.75
SSPM4HLP-TL	B1.77
SSPM4HLP-TL300	B1.75
SSPM4HP-L	B1.77
SSPM4HP-TL	B1.77
SSPM4H-TL	B1.77
SSSLW25-C	D2.105
SSSLW31-C	D2.105
SSSLW38-C	D2.105
SSSLW50-C	D2.105
SSSLW62-C	D2.105
SST1.5I-C	B1.65, B1.69
SST1.5I-M	B1.69
SST1.5I-M0	B1.66
SST1.5M-C	B1.65, B1.69
SST1.5M-M	B1.69
SST1.5M-M0	B1.66
SST1.5S-M	B1.65, B1.69
SST1.5S-M0	B1.66
SST1M-C	B1.65, B1.69
SST1M-C0	B1.66
SST1M-M	B1.69
SST2H-D	B1.65, B1.69
SST2H-D0	B1.66
SST2HH-D	B1.69
SST2I-C	B1.65, B1.69
SST2I-M	B1.69
SST2I-M0	B1.66
SST2S-C	B1.65, B1.69
SST2S-C0	B1.66
SST2S-M	B1.69
SST3I-C	B1.65, B1.69
SST3I-C0	B1.66
SST3I-M	B1.69
SST3S-C	B1.65, B1.69
SST3S-C0	B1.66
SST3S-M	B1.69
SST4H-D	B1.69
SST4HH-D	B1.69
SST4H-L	B1.65, B1.69
SST4H-L0	B1.66
SST4I-C	B1.65, B1.69
SST4I-M	B1.69
SST4I-M0	B1.66
SST4S-C	B1.65, B1.69
SST4S-C0	B1.66
SST4S-M	B1.69
SST8H-D	B1.69
SST8H-L	B1.65, B1.69
SST8H-L0	B1.66
T12F-C	C3.4
T12F-C0	C3.5
T12F-D	C3.4
T12F-D0	C3.5
T12FR-C20Y	C3.5
T12FR-CY	C3.5
T12N-C	C3.6
T12N-C0	C3.6
T12N-D	C3.6
T12R-CY	C3.5
T12T-C	C3.6
T19F-C	C3.4
T19F-C0	C3.5
T19F-M	C3.4
T19FR-C20Y	C3.5
T19FR-CY	C3.5
T19N-C	C3.6
T19N-C0	C3.6
T19N-M	C3.6
T19N-M0	C3.6
T19R-CY	C3.5
T19T-C	C3.6
T019X000FJC-BK	E1.10
T024X000FJC-BK	E1.10
T024X000FJT	E2.22
T024X000VPC-BK	E1.10
T024X000VYC-WH	E1.10
T024X000YKC-BK	E1.10
T25F-C	C3.4
T25F-C0	C3.5
T25F-C1	C3.4
T25F-C2	C3.4
T25F-C3Y	C3.4
T25F-C4Y	C3.4
T25F-C5	C3.4
T25F-C6	C3.4
T25F-C7	C3.4
T25F-C8	C3.4
T25F-C10	C3.4
T25F-C16	C3.4
T25F-M	C3.4
T25F-M0	C3.5
T25FR-C20Y	C3.5
T25FR-CY	C3.5
T25FR-M20Y	C3.5
T25FR-MY	C3.5
T25F-X0	C3.5

Order number of pieces required, in multiples of Standard Package Quantity.

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Part Number Index

Part Number	Page Number
T25N-C	C3.6
T25N-C0	C3.6
T25N-M	C3.6
T25N-M0	C3.6
T25NZFR-C20	C3.6
T25R-C20Y	C3.5
T25R-CY	C3.5
T25R-M20Y	C3.5
T25R-MY	C3.5
T25T-L	C3.6
T25T-L0	C3.6
T031X000FJC-BK	E1.10
T031X000FJT	E2.22
T38F-C	C3.4
T38F-C0	C3.5
T38FR-C20Y	C3.5
T38FR-CY	C3.5
T38FR-TLY	C3.5
T38F-TL	C3.4
T38F-TL0	C3.5
T38N-C	C3.6
T38N-C0	C3.6
T38N-TL	C3.6
T38NZFR-C20	C3.6
T38P-C0	C3.6
T38R-CY	C3.5
T38R-TLY	C3.5
T38T-L	C3.6
T038X000C1C-BK	E1.5
T038X000C2C-BK	E1.5
T038X000FJC-BK	E1.10
T038X000FJT	E2.22
T038X000VPC-BK	E1.10
T038X000VQC-BK	E1.10
T038X000VQC-WH	E1.10
T038X000VSC-BK	E1.10
T038X000VSC-WH	E1.10
T038X000VUC-BK	E1.10
T038X000VWC-BK	E1.10
T038X000VWC-WH	E1.10
T038X000VXC-BK	E1.10
T038X000VYC-WH	E1.10
T038X000Y01	E2.22
T038X000YKC-BK	E1.10
T038X000YP1	E2.22
T50F-C	C3.4
T50F-C0	C3.5
T50F-C1	C3.4
T50F-C2	C3.4
T50F-C3Y	C3.4
T50F-C4Y	C3.4
T50F-C5	C3.4
T50F-C6	C3.4
T50F-C7	C3.4
T50F-C8	C3.4
T50F-C10	C3.4
T50F-C16	C3.4
T50FR-C20Y	C3.5
T50FR-CY	C3.5
T50FR-TLY	C3.5
T50F-TL	C3.4
T50F-TL0	C3.5
T50F-TL4Y	C3.4
T50F-X	C3.4
T50F-X0	C3.5
T50N-C	C3.6
T50N-C0	C3.6
T50N-TL	C3.6
T50N-TL0	C3.6
T50NZFR-C20	C3.6
T50P-C0	C3.6
T50R-CY	C3.5
T50R-TLY	C3.5
T50T-Q	C3.6
T050X000C1C-BK	E1.5
T050X000C2C-BK	E1.5
T050X000CBC-BK	E1.5
T050X000FJT	E2.22
T050X000VPC-BK	E1.10
T050X000VPC-RD	E1.10
T050X000VQC-BK	E1.10
T050X000VQC-WH	E1.10
T050X000VSC-BK	E1.10
T050X000VSC-WH	E1.10
T050X000VUC-BK	E1.10
T050X000VWC-BK	E1.10
T050X000VWC-WH	E1.10
T050X000VXC-BK	E1.10
T050X000VYC-WH	E1.10
T050X000Y01	E2.22
T050X000YKC-BK	E1.10
T050X000YP1	E2.22
T62F-C	C3.4
T62F-C0	C3.5
T62FR-C20Y	C3.5
T62FR-CY	C3.5
T62F-TL	C3.4
T62F-TL0	C3.5
T62N-C	C3.6
T62N-C0	C3.6
T62R-CY	C3.5
T62T-Q	C3.6
T70BCIW-X	C2.10
T70BFI	C2.10
T70BFIW	C2.10
T70BIW6	C2.9
T70BIW8	C2.9
T70BIW10	C2.9
T70CCIW-X	C2.10
T70CIW6	C2.9
T70CIW8	C2.9
T70CIW10	C2.9
T70DB-X	C2.11
T70DW6	C2.9
T70DW8	C2.9
T70DW10	C2.9
T70ECIW	C2.10
T70EEIW	C2.10
T70FSB	C2.11
T70HB3GFCI-X	C2.11
T70HB3-X	C2.11
T70HB-X	C2.11
T70ICIW	C2.10
T70KW2IW	F.5
T70KW4IW	F.5
T70OCIW	C2.10
T70RAIW	C2.10
T70SDB-X	C2.11
T70S-X	C2.11
T70TD	C2.10
T70TIW	C2.10
T70TRCIW	C2.10
T70TRI	C2.10
T70TRIW	C2.10
T70WC2IW	C2.10
T70WCIW	C2.10
T70WR-X	C2.11
T75F-C	C3.4
T75F-C0	C3.5
T75FR-C20Y	C3.5
T75FR-CY	C3.5
T75FR-TY	C3.5
T75F-T	C3.4
T75F-T0	C3.5
T75N-C	C3.6
T75N-C0	C3.6
T75N-T	C3.6
T75NZFR-C20	C3.6
T75R-CY	C3.5
T75T-X	C3.6
T075X000C1C-BK	E1.5
T075X000C2C-BK	E1.5
T075X000VPC-BK	E1.11
T075X000VQC-WH	E1.11
T075X000VQX-BK	E1.11
T075X000VSC-BK	E1.11
T075X000VSC-WH	E1.11
T075X000VUC-BK	E1.11
T075X000VWC-BK	E1.11
T075X000VWC-WH	E1.11
T075X000VXC-BK	E1.11
T075X000VYC-WH	E1.11
T075X000YKC-BK	E1.11
T100F-C	C3.4
T100F-C0	C3.5
T100FR-C20Y	C3.5
T100FR-CY	C3.5
T100N-C	C3.6
T100N-C0	C3.6
T100NZFR-C20	C3.6
T100P-C0	C3.6
T100R-CY	C3.5
T100T-X	C3.6
T100X000C1C-BK	E1.5
T100X000C2C-BK	E1.5
T100X000CBC-BK	E1.5
T100X000RPC-BK	E1.11
T100X000RPT	E2.22
T100X000RUC-BK	E1.11
T100X000RUT	E2.22
T100X000RWT	E2.22
T100X000RXC-BK	E1.11
T100X000RXT	E2.22
T100X000VP1Y	E2.22
T100X000VPC-BK	E1.11
T100X000VPC-RD	E1.11

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Industrial Safety Solutions Index

Part	Page Number
T100X000VQ1Y	E2.22
T100X000VQC-BK	E1.11
T100X000VQC-WH	E1.11
T100X000VS1Y	E2.22
T100X000VSC-BK	E1.11
T100X000VU1Y	E2.22
T100X000VUC-BK	E1.11
T100X000VW1Y	E2.22
T100X000VWC-BK	E1.11
T100X000VWC-WH	E1.11
T100X000VX1Y	E2.22
T100X000VXC-BK	E1.11
T100X000VY1Y	E2.22
T100X000VYC-WH	E1.11
T100X000Y01	E2.22
T100X000Y81	E2.22
T100X000YK1	E2.22
T100X000YKC-BK	E1.11
T100X000YP1	E2.22
T100X000YQ1	E2.22
T100X000YS1	E2.22
T100X000YU1	E2.22
T100X000YW1	E2.22
T200X000RPT	E2.22
T200X000RUT	E2.22
T200X000RWT	E2.22
T200X000RXT	E2.22
T200X000VP1Y	E2.22
T200X000VQ1Y	E2.22
T200X000VR1Y	E2.22
T200X000VS1Y	E2.22
T200X000VT1Y	E2.22
T200X000VU1Y	E2.22
T200X000VV1Y	E2.22
T200X000VW1Y	E2.22
T200X000VX1Y	E2.22
T200X000VY1Y	E2.22
T200X000Y01	E2.22
T200X000Y81	E2.22
T200X000YK1	E2.22
T200X000YP1	E2.23
T200X000YQ1	E2.23
T200X000YS1	E2.23
T200X000YU1	E2.23
T200X000YW1	E2.23
T225X000YK1	E2.23
T300X000RPT	E2.23
T400X00RPT	E2.23
T400X000RQT	E2.23
T400X000RUT	E2.23
T400X000RWT	E2.23
T400X000RXT	E2.23
T400X000TU1	E2.23
T400X000VP1Y	E2.23
T400X000VQ1Y	E2.23
T400X000VR1Y	E2.23
T400X000VS1Y	E2.23
T400X000VT1Y	E2.23
T400X000VU1Y	E2.23
T400X000VV1Y	E2.23
T400X000VW1Y	E2.23
T400X000VX1Y	E2.23
T400X000VY1Y	E2.23
T400X000Y01	E2.23
T400X000Y81	E2.23
T400X000YK1	E2.23
T400X000YP1	E2.23
T400X000YQ1	E2.23
T400X000YS1	E2.23
T400X000YW1	E2.23
T425X000YK1	E2.23
TA1S8-C	B2.11
TA1S8-M0	B2.11
TA1S8-M30	B2.11
TA1S8-M69	B2.11
TA1S10-C	B2.11
TA1S10-M0	B2.11
TA2-C	B2.11
TA2-M	B2.11
TB05X08EWT-AB2	E2.18
TB05X12EWT-AB1	E2.18
TB06X08EWT-AB2	E2.18
TB06X12EWT-AB1	E2.18
TB08X12EWT-AB1	E2.18
TDP43HE	E1.13
TDP43ME	E1.12
TDP43ME-AC	E1.12
TDP43ME-CASE	E1.12
TDP43ME-CUTTER	E1.12
TDP43ME-KIT	E1.12
TDP43ME-RS	E1.12
TDP43ME-SPINDLE	E1.12
TDP43ME-TB-KIT	E1.12
TDP46HE	E1.13
TF3IW-E	C2.6
TF5IW-E	C2.6
TF10IW-X	C2.6
TFC3IW-X	C2.6
TFC5IW-X	C2.6
TFC10IW-X	C2.6
TFX3IW-X	C2.7
TFX5IW-X	C2.7
TFX10IW-X	C2.7
TFXD10IW-X	C2.8
THMSP20-C	B2.50
THMSP20-C30	B2.50
THMSP25-C	B2.50
THMSP25-C30	B2.50
TM1A-C	B2.8
TM1S4-C	B2.9
TM1S4-M69	B1.14
TM1S6-C	B2.9
TM1S6-M69	B1.14
TM2A-C	B2.8
TM2PWH25-C	B2.17
TM2S6-C	B2.9
TM2S6-M69	B1.14
TM2S8-C	B2.9
TM2S8-C71	B1.18
TM2S8-C76	B1.17
TM2S8-C86	B1.19
TM2S8-C186	B1.19
TM2S8-M69	B1.14
TM3A-C	B2.8
TM3S8-C	B2.9
TM3S8-C69	B1.14
TM3S8-C76	B1.17
TM3S8-C86	B1.19
TM3S8-C186	B1.19
TM3S10-C	B2.9
TM3S10-C76	B1.17
TM3S10-C86	B1.19
TM3S10-C186	B1.19
TM3S10-M69	B1.14
TM3-X2-C0Y	B2.10
TM26319B01	E4.5
TM26971B01	E4.5
TMEH2S5-3E-C350	B2.10
TMEH2S5-D350	B2.10
TMEH2S6-3E-C350	B2.10
TMEH2S6-D350	B2.10
TMEH2S8-3E-C350	B2.10
TMEH2S8-D350	B2.10
TMEH-S8-Q0	B2.10
TMEH-S10-C100	B2.10
TMEH-S10-C109	B2.10
TMEH-S10-Q0	B2.10
TMEH-S25-Q0	B2.10
TMEH-X2-L0Y	B2.10
TMSTHS10-D0	B2.16
TMSTHS11-D0	B2.16
TMSTHS12-D0	B2.16
TMSTHS13-D0	B2.16
TMSTHS16-D0	B2.16
TMSTHS19-D0	B2.16
TMSTLHS6-M0	B2.16
TMSTLHS8-M0	B2.16
TNC25LG2	C1.25
TNC25X37LG2	C1.25
TNC25X75LG2	C1.25
TNC37LG2	C1.25
TNC37X37LG2	C1.25
TNC37X75LG2	C1.25
TNC50D2	C1.25
TNC50LG2	C1.25
TNC50X50LG2	C1.25
TNC75D2	C1.25
TNC75LG2	C1.25
TNC75X75LG2	C1.25
TNC100LG2	C1.25
TNC100X50LG2	C1.25
TNC100X75LG2	C1.25
TP2-C	B2.13
TP4H-C	B2.13
TTS-20R	B1.86
TTS-20R0	B1.84
TTS-35R3	B1.86
TTS-35R3-0	B1.84
TTS-35RX	B1.86
TTS-35RX0	B1.84
TV105-1.0C20Y	C3.17
TV105-1.0CY	C3.17
TV105-1M20Y	C3.17
TV105-1MY	C3.17
TV105-3M20Y	C3.17
TV105-3MY	C3.17

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Part Number Index

Part Number	Page Number
TV105-6M20Y	C3.17
TV105-6MY	C3.17
TV105-12M20Y	C3.17
TV105-12MY	C3.17
TV105-.38D20Y	C3.17
TV105-.38DY	C3.17
TV105-.50D20Y	C3.17
TV105-.50DY	C3.17
TV105-.75TL20Y	C3.17
TV105-.75TLY	C3.17
TWR-C	B2.38
TWR-C0	B2.38
UCIB1-V316	B3.24
UCIB1-VC	B3.24
UCRND1-V316	B3.24
UCRND1-VC	B3.24
UCSQ1-V316	B3.24
UCSQ1-VC	B3.24
UCT3S-X	B1.86
UCT3S-X0	B1.85
UCT5S-X	B1.86
UCT5S-X0	B1.85
UCTGS1224-X	B1.85
UCTGSM5-X	B1.85
UCTGSM6-X	B1.85
UCTH1-V316	B3.24
UCTH1-VC	B3.24
UGCTC3S-X	B1.86
UGCTC3S-X0	B1.85
UGCTC5S-X	B1.86
UGCTC5S-X0	B1.85
UGCTE3S-X	B1.86
UGCTE3S-X0	B1.85
UGCTE5S-X	B1.86
UGCTE5S-X0	B1.85
UPS003LSM	G1.9
UPS00100DC	G1.9
VCC25-A-C	B2.33
VCC50-A-C	B2.33
VS-AVT2-C02-L03	E5.3
VS-AVT2-C08-L10	E5.3
VS-AVT-C02-L03	E5.3
VS-AVT-C08-L10	E5.3
VS-AVT-CABLE-02	E5.3
VS-AVT-CABLE-04	E5.3
VS-AVT-CABLE-08	E5.3
VS-AVT-CABLE-16	E5.3
VS-AVT-CABLE-20	E5.3
VS-AVT-CABLE-30	E5.3
VS-AVT-DL	E5.3
VS-AVT-IL-LINE	E5.3
VS-AVT-IL-LOAD	E5.3
VS-AVT-RKP1	E5.3
VS-AVT-RKP2	E5.3
VS-CKP4-000	E5.3
VS-CKP14-6	E5.3
VT-0-Q	D2.69
VT-1-Q	D2.69
VT-2-Q	D2.69
VT-3-12	D2.69
VT-4-12	D2.69
VT-5-6	D2.69
VT-6-6	D2.69
VTA-0-Q	D2.70
VTA-1-Q	D2.70
VTA-2-Q	D2.70
VTA-3-12	D2.70
VTA-4-12	D2.70
VTA-5-6	D2.70
VTA-6-6	D2.70
VWS106-C	B2.41
VWS106-C20	B2.41
VWS3750-C	B2.40
VWS3775-C	B2.40
VWS50100-C	B2.40
VWSDC-C	B2.41
VWSDC-C20	B2.41
W3152	E5.30
W3153	E5.30
W3154	E5.30
W3156	E5.30
W3158	E5.30
W3198	E5.30
W3658	E5.20
W4303	E5.30
W4305	E5.30
W4307	E5.30
W4308	E5.30
W4312	E5.30
W7005	E5.6
W7014	E5.6
W7021	E5.6
W7036	E5.6
W7138	E5.15
W7139	E5.15
W7158	E5.16
W7159	E5.16
W7160	E5.16
W7161	E5.16
W7162	E5.16
W7163	E5.16
W7164	E5.16
W7173	E5.19
W7174	E5.19
W7305	E5.27
WB12-L	D3.25
WB34-X	D3.25
WB58-Q	D3.25
WB89D	F.3
WBS6-Q	B2.42
WEH-E8-C	B2.48
WL1	E5.17
WL3	E5.17
WL32Y	E5.17
WL33Y	E5.17
WL35Y	E5.17
WL36Y	E5.17
WR2-C	C1.31
WR2H-C	C1.31
WR3-C	C1.31
WR4-C	C1.31
WR5-C	C1.31
WRS-A-C10	C1.31
WS25-25-C	B2.39
WS25-50-C	B2.39
WS25-75-C	B2.39
WS35-25-C	B2.39
WS35-50-C	B2.39
WS35-75-C	B2.39
WS50-25-C	B2.39
WS50-50-C	B2.39
WS50-75-C	B2.39
WS75-25-C	B2.39
WS75-50-C	B2.39
WS75-75-C	B2.39
Z22C-S	G1.11
Z22U-S14	G1.11
Z22U-S14S	G1.11
Z22U-S15	G1.11
Z22U-S15S	G1.11
Z22U-S16	G1.11
Z22U-S16S	G1.11
Z23C-S	G1.11
Z23U-S24	G1.11
Z23U-S24S	G1.11
Z23U-S25	G1.11
Z23U-S25S	G1.11
Z23U-S26	G1.11
Z23U-S26S	G1.11
ZDF48-EA	G1.12
ZDF48-RA	G1.12
ZDF242430	G1.12
ZFLEX1	G1.11
ZFLEX2	G1.11

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Industrial Safety Solutions Index

Part	Page Number
B	
Barricade	
Barricade Rope	E5.92
Plastic Barricade Tapes	E5.92
Reflective Plastic Barricade Tapes	E5.92
Woven Barricade Tapes	E5.92
Barrier Cone Bars	E5.95
Braided Steel Cable	E5.70
C	
Cast Iron Base and Steel Post	E5.81
Chain Attachment	E5.69
Chain Links	E5.96
Column Markers	E5.21
Cones	E5.90
Crane and Construction Signals	E5.13
Cross Barrier	E5.12
Cross-Ribs	E5.80
D	
Duct Markers	E5.51
E	
Entry Permit Pad	E5.12
F	
Fence Sign Holder Bracket	E5.81
Flag Helmet Stickers	E5.26
Floor Label Frame System	E5.87
Floor Signs	
Non-Skid Floor	E5.86
Non-Slip Floor	E5.89
Non-Slip Shape Floor	E5.88
G	
GHS	
Hazard Communication Training Kit	E5.76
Hazard Pictogram and Classes	E5.74
Jumbo Tags	E5.75
Pictogram Labels	E5.75
Posters	E5.76
Pre-Printed Hazard Symbols	E5.73
Print On-Demand Thermal Transfer Labels	E5.74
Wallet Cards	E5.76
H	
Hasps	
Aluminum Tag	E5.55
Double-Cross Aluminum Tag	E5.55
Lockout	E5.54
Steel	E5.70

Part	Page Number
L	
Labels	
Adhesive Vinyl (PVS)	E5.24
Arc Flash Protection	E5.16
Chemical Identifier Roll	E5.71
Conductor Identification	E5.18
Drum & Container	E5.72
Electrical Labels in Dispenser	E5.18
Electrical Symbol	E5.18
Hard Hat	E5.26
Hazardous Material	E5.71
Helmet Decals	E5.26
ISO Warning Symbol	E5.17
ISO Warning Symbols	E5.30
Lockout Warning Strip	E5.53
Magnetic Lockout	E5.16
Padlock Overlaminate	E5.69
Polyester Laminated Vinyl (PLVS)	E5.11, E5.28
Production Control	E5.20
Self-Laminating Padlock	E5.70
Lock Box	
Compact Plastic Group	E5.62
Metal Group	E5.62
Plastic Group	E5.62
Lockout	
Ball Valve	E5.58
Cinch Cable	E5.56
Electrical Panel	E5.57
Large Handle Lever	E5.56
Twist & Turn Cinch Cable	E5.57
Versatile Pneumatic	E5.58
Lockout Devices	
AC Plug End	E5.60
Ball/Butterfly Valve	E5.58
Corded AC Plug Cover	E5.60
Gate Valve	E5.57
Global Plug	E5.60
Large Handle Circuit Breaker	E5.53
Miniature Circuit Breaker	E5.53
Multiple	E5.54
Pneumatic Energy	E5.58
PowerLOK™ Circuit Breaker	E5.53
Universal & I-LINE™ Circuit Breaker	E5.53
Lockout Kits	
Contractor	E5.64
Electrician	E5.64
Maintenance	E5.65
Power and Panel Distribution	E5.65
Lockout Quick Reference Card	E5.62
Lockout Stations	E5.63

Part	Page Number
M	
Marking Tapes	
Color Banding Pipe	E5.49
High Performance Marking	E5.87
Message	E5.84
Non-Slip Floor Marking	E5.84
Textured Marking	E5.87
Metal I.D. Tags and Collars	E5.69
Metal Wall Mount Cabinet	E5.64
N	
Network Security Devices	
Jack Module Blockout	E5.61
RJ45 Plug Lock-In	E5.61
NFPA	
Flip Placard Sign	E5.71
Placard	E5.71
Wallet Cards	E5.71
Sign Kits	E5.71
O	
Outdoor Retractable Belt Tape Barriers	E5.97
P	
Padlock Eyes	E5.69
Padlocks	
Aluminum	E5.66
Non-Conductive Safety	E5.66
Brass	E5.68
Brass Weatherproof Combination	E5.67
Laminated Steel	E5.68
Non-Sparking Brass	E5.67
TITALIUM™	E5.68
Weatherproof	E5.67
Specialty	E5.66
Permit Holder Board	E5.12
Pipe Markers	
Color Banding Pipe Marking Tapes	E5.49
IIAR Ammonia	E5.50
Medical Gas	E5.51
Roll Form	E5.50
Self Stick Vinyl (PPMA)	E5.46
Snap On Pipe Markers (PPMS)	E5.46
Roll Tape	E5.49
Portable Sign Stand	E5.81
Push Button Cover	E5.59

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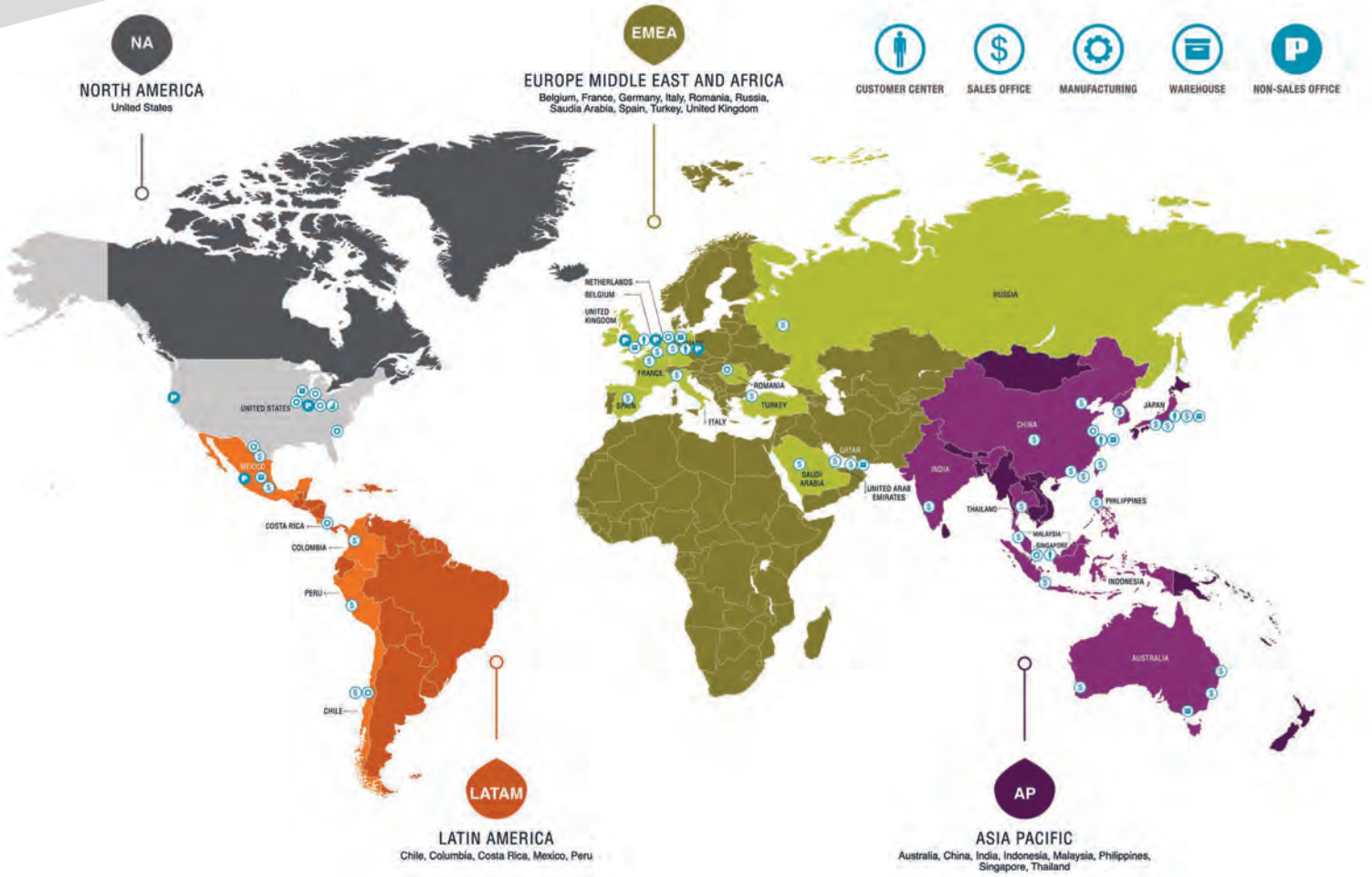
Industrial Safety Solutions Index

Part	Page Number
R	
Rack Mount Retractable Belt Tape Barriers	E5.96
Receptacle Blockout Device	E5.60
Reflective Vinyl Letters and Numbers Markers	E5.29
Retractable Banner Barrier	E5.96
Retractable Belt Tape Barriers	E5.97
Ring Weight	E5.95
S	
Single Spring Sign Stand	E5.79
Safety Tool Bag	E5.64
Scoreboards	
Electronic Safety	E5.98
Turn-A-Day	E5.98
Write-A-Day	E5.98
Self-Laminating Adhesive Sign Carriers	E5.34
Self-Laminating Cable Marker Holders	E5.44
Self-Laminating Safety Tag Carriers	E5.44
Sign Mounting Brackets and Plate	E5.81
Signs	
Admittance & Exit	E5.6
ANSI ISO Safety	E5.30
Blank Space for Custom Messages	E5.34
Blinker	E5.81
Cautionary	E5.80
Chemicals & Hazardous Materials	E5.10
Circuit Breaker Directory	E5.53
Cone Top Warning	E5.90
Construction	E5.13
Electrical	E5.15
Equipment	E5.19
Fire & Emergency	E5.20
First Aid	E5.22
Fluorescent Alert	E5.28
Free Standing	E5.93
Glow	E5.31
Glow Clear-Shield	E5.31
Glow-in-the-Dark UL Exit	E5.9
Hazardous Material Classification	E5.71
Housekeeping & Hygiene	E5.23
Large	E5.14
Laser Printable Adhesive	E5.34
Lighted UL LED Exit	E5.8
Molded 2-Sided Free Standing	E5.94
Non-Regulatory Traffic	E5.82
Parking	E5.78
Pavement-Print	E5.88
Personal Protection	E5.25
Projecting	E5.32
Reversible Free Standing	E5.94
Roll of	E5.15
Roll-Up Construction	E5.80
Security Stop Safety	E5.82
Smoking Control	E5.26
Speed Bump	E5.82
Speed Limit	E5.77
Stencils	E5.12
Stop Signs & Yield	E5.77
Traffic Direction	E5.78
Traffic Industrial	E5.27
Spring-Less Sign Stand	E5.79
Stanchion Post	E5.95
Steel Safety Post & Chain	E5.96
Steel U-Channel Posts	E5.81
Steering Wheel Covers	E5.69
Striped Post	E5.95
T	
Tag Hasps	E5.55
Tag Holder Systems	E5.40
Tags	
Bilingual Spanish Safety	E5.37
Blank Header	E5.36
Create Your Own Cardstock	E5.44
Ground Warning	E5.45
Inspection & Status Record	E5.37
Self-Laminating Fiber Optic Cable Marker	E5.45
Soft Aluminum	E5.45
Standard Safety	E5.36
Aluminum Inspection Record	E5.42
Blank	E5.43
Hazardous Material	E5.72
Lockout	E5.39
Loop Strap	E5.42
Roll of	E5.41
Safety	E5.34
Scaffold Status 3 'n 1 Fold	E5.42
Self-Laminating Lockout	E5.39
Status	E5.38
Thick Plastic	E5.41
Valve Identifier Plastic	E5.45
Tapes	
Directional Flow Arrow	E5.49
Floor Marking Shapes	E5.85
Glow-in-the-Dark Shapes	E5.85
Marking	E5.83
Message Marking	E5.83
Non-Skid Floor	E5.86
Non-Skid Floor Shape	E5.86
Non-Slip Floor Marking Shapes	E5.84
Pennant Flag	E5.90
Reflective	E5.83
Underground Hazard	E5.91
Toggle-Switch Cover	E5.59
Toggle Switch Cover Device	E5.59
Training Posters	E5.76
U	
Universal Cone Adapter	E5.90
Universal Wall Switch Cover	E5.59
V	
Verisafe™ Absence of Voltage Testers System Components	E5.2
VeriSafe™ Absence of Voltage Tester (AVT)	E5.3
VeriSafe™ Hazardous Locations Absence of Voltage Tester (AVT)	E5.3
VeriSafe™ Insulation Piercing Connectors	E5.3
Vinyl Cloth Letters and Numbers Markers	E5.29
Vinyl Letter and Number Markers	E5.29
Voltage and Fiber Optic Markers	E5.17
Voltage Marker Books	E5.17
W	
Wallet Cards	E5.71
Wall Mount Retractable Belt Tape Barriers	E5.97
Write-On GHS Tags and Signs	E5.73
Numbers	
6-Padlock Hanger Board Kit	E5.63
6-Padlock Lockout Shadow Board Kit	E5.63

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