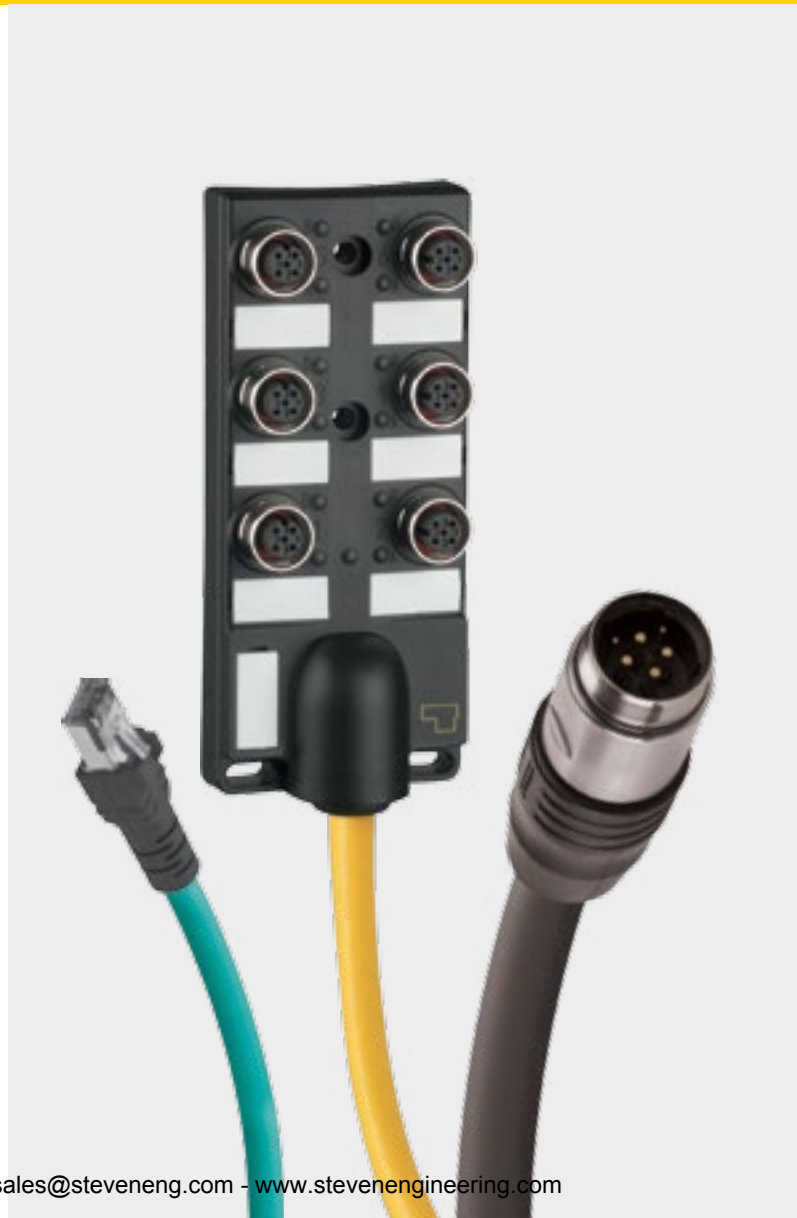
Your Global Automation Partner

TURCK

Connectivity Catalog



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

A Global Leader in Industrial Automation

Turck's sensors, connectivity, network and interface products are built to be the best. As one of the most **prominent** sensor manufacturers **in the world**, we even back our sensors with a **lifetime warranty**. Turck works by bringing **rugged engineering** solutions to your industrial automation applications.

85,000+ SOLUTIONS

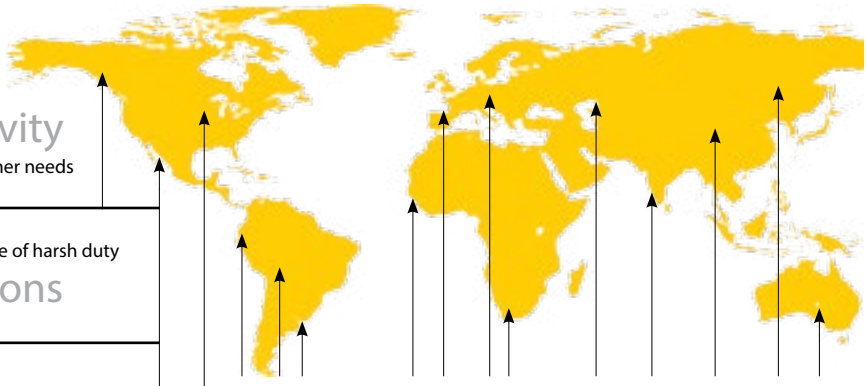
50+ YEARS OF INNOVATION

2,000+ EXPERIENCED SALES REPRESENTATIVES

Pioneer in non-contact **sensing** technology

Developed innovative **connectivity** solutions in response to our sensor customer needs

Recognized need and advanced knowledge of harsh duty environments lead to **I/O solutions**



SUPPORT & DEDICATED SERVICE

EXTENSIVE WARRANTY

4,000+ APPLICATION EXPERTS

RESPOND and SOLVE over **1,200** inquiries per day

Strategically placed manufacturing facilities in the **USA** with **28** GLOBAL SUBSIDIARIES

GLOBAL BUT LOCAL...

60 representations worldwide

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

TURCK
THE ADVANTAGE

ENGINEERED SOLUTIONS

At Turck, we understand that not every application is the same. That's why we dedicate ourselves to finding the optimal engineered solution for every application.

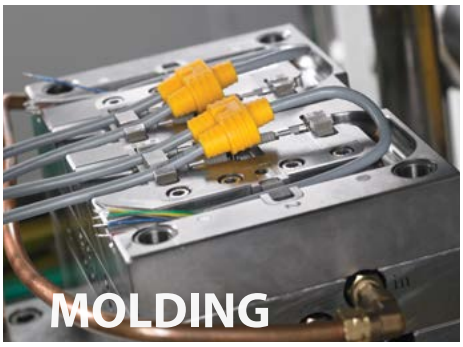
Whether you need a cordset, network I/O, or sensor, our range of innovative manufacturing capabilities and engineering expertise allows us to achieve what others cannot.

Turck offers advanced designs and the most up to date manufacturing processes – including EDM, molding, and laser trimming – allowing our products to thrive in the harshest environments.

THAT'S THE TURCK ADVANTAGE.

more than
13,000
CUSTOM SKUs

INNOVATIVE MANUFACTURING CAPABILITIES



10 YEARS EXPERIENCE

providing customers with
engineered solutions

Just to name a few....

- overmolds
- RFID tags
- kitting
- wiring/pinouts
- pigtails/mold-ons
- color coded wiring
- free software & support
- cable lengths
- daisy chains
- silicone tubing
- extreme environments
- harness assemblies
- mix & match I/O
- major industry protocols
- private labeling
- snap-in labels

and more...

Engineered solutions for all application challenges

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

TURCK

THE GOLD STANDARD

GREAT VALUE

COMPLIMENTARY AUDITS

At Turck, we consider it our job to help our customers decrease failures and reduce operation downtime. That's why we offer a complimentary audit program. The audit helps you identify, evaluate, and solve problem areas where sensors and cordsets are continually damaged or destroyed. This reduction in downtime will save you costs, ensuring you get the most out of your production processes.

WARRANTY

We have confidence in our products, and believe you should too. All of our products come with extensive warranties to assure you that our products are not only built to work, but built to last. We also have 3,500+ application experts ready to support you with any application issues that may arise.

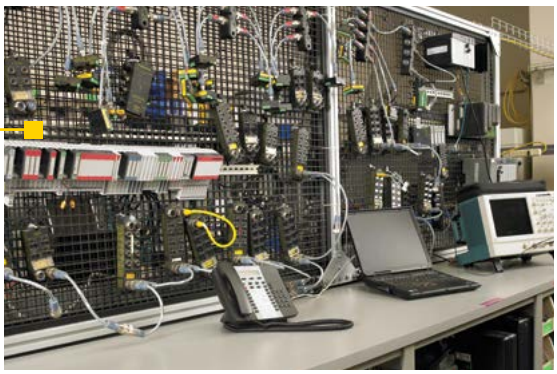
Quality

MATERIALS

built to last in the harshest environments

- stainless steel
- nickel plated brass
- viton
- rubber
- gold
- PUR/TPU/TPE
- armored cable
- washdown
- extreme temperatures

and more...



Our products undergo

EXTENSIVE TESTING

To continuously deliver solutions of only the highest quality, we put our products through a rigorous set of tests. These tests are in accordance with national and international standards such as IEC and UL to confirm that they meet and exceed industry standards, ensuring their survivability and dependability in all applications.

Ship 1 to 1 Million with

NO MINIMUM

We understand that not everyone needs 1,000 or one million parts. We offer flexible minimum orders to ensure you get exactly the number of parts you need.

Point of Use

INVENTORY

Get immediate access to Turck products with your own on-site Turck vending machine. Convenient access can help you save money while reducing downtime by having your products easily accessible at a moment's notice.

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

TABLE OF CONTENTS

TURCK

M8 Picofast® C

M12 Eurofast® D

1/2-20 Microfast® E

7/8", 1" and 1 1/8" Minifast® F

M16 Versafast® G

M23 and M27 Multifast® H

Powerfast J

Ethernet K

PROFINET L

DeviceNet™ M

FOUNDATION™ fieldbus N

PROFIBUS® -DP/PA P

AS-interface® R

Junction Box (Multibox®) S

Valve Plugs T

Accessories U

Splitters V

Reference W

Warranty Y

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

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

Part Number Keys	C2
Cordsets	C4
Receptacles	C16
Field Wireables	C24
Inserts	C28
Closure Caps	C31

Features

- 3, 4 and 6 pins
- Threaded or snap mating
- Nickel-brass or stainless steel materials
- Straight and angled connectors
- LED options
- Receptacles with leads or PCB pins

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

Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P	K	G		3	Z	-	P7X2	*	/S..

M8 Picofast Cordset

Gender

K = female connector
S = male connector

Configuration

G = straight
W = right angle

Coupling Nut (Threaded coupling nut only)

(blank) = nickel plated brass
V = Stainless steel
S = Shielded to coupling nut

Number of Wires / AWG / Color Codes

3 = 3x24 AWG BN, BU, BK
4 = 4x26 AWG BN, BU, BK, WH
6 = 6x26 AWG BN, BU, BK, WH, GY, PK

Locking Method

(blank) = male snap lock (no locking sleeve)
Z = female snap lock (locking sleeve)
M = M8x1 threaded coupling nut
F = fixed thread (3-pin male only)

Extension Examples:

Hybrid connector extensions also available. Consult factory.

Varieties

(blank) = PVC jacket
/S90 = TPU jacket
/S90-SP = TPU coil cord
/S90/S101 = TPU jacket, Flexlife-20
/S90/S618 = TPU jacket with foil shield and drain wire
/S90/S653 = TPU jacket with foil shield and drain wire
/S760 = PVC black jacket
/S .. = consult factory, special
/CS .. = consult factory, special

Insertion Point of Extension Cable and Second Prefix*

* Female connector listed first, male connector second
Example: **PKG 3M-2-PSG 3M**

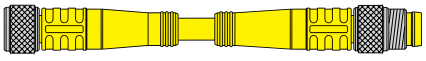
Length in Meters

LED Options

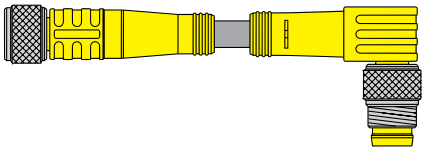
(blank) = No LEDs
P7X2 = 2 LEDs with sourcing (PNP) signal and power
N7X2 = 2 LEDs with sinking (NPN) signal and power

Extension Examples:

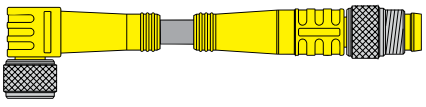
Hybrid connector extensions also available. Consult factory.



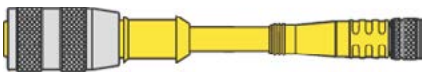
P	K	G		3M	-	2	-	P	S	G		3M



P	K	G		3M	-	2	-	P	S	W		3M



P	K	W		3M	-	2	-	P	S	G		3M

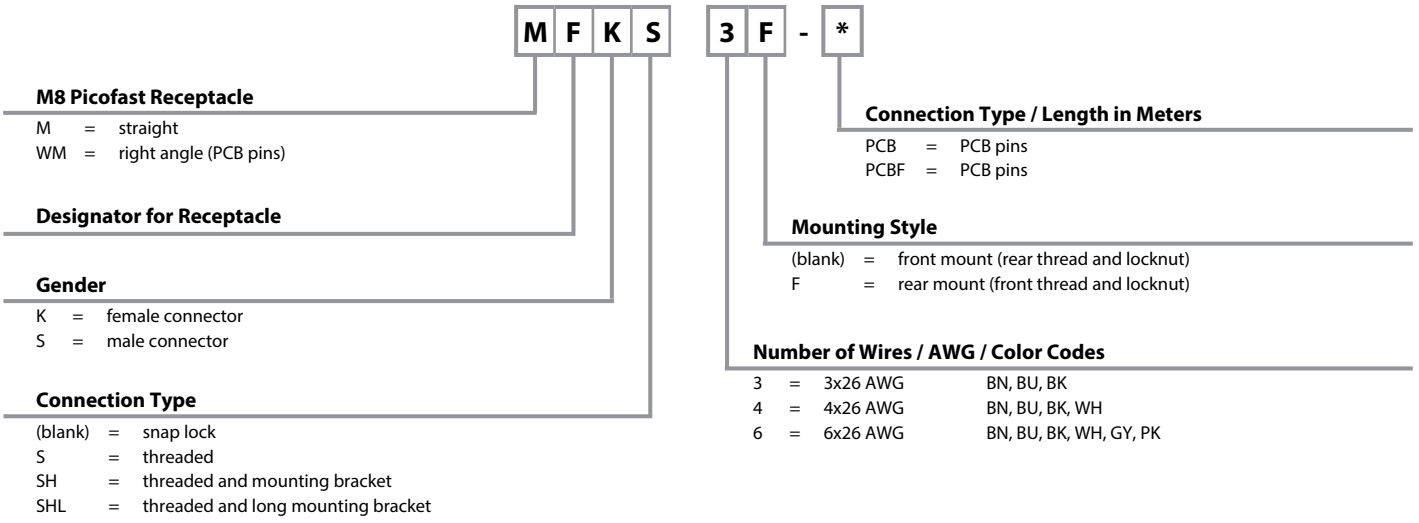


R	K		4.4	T	-	2	-	P	K	G		4M

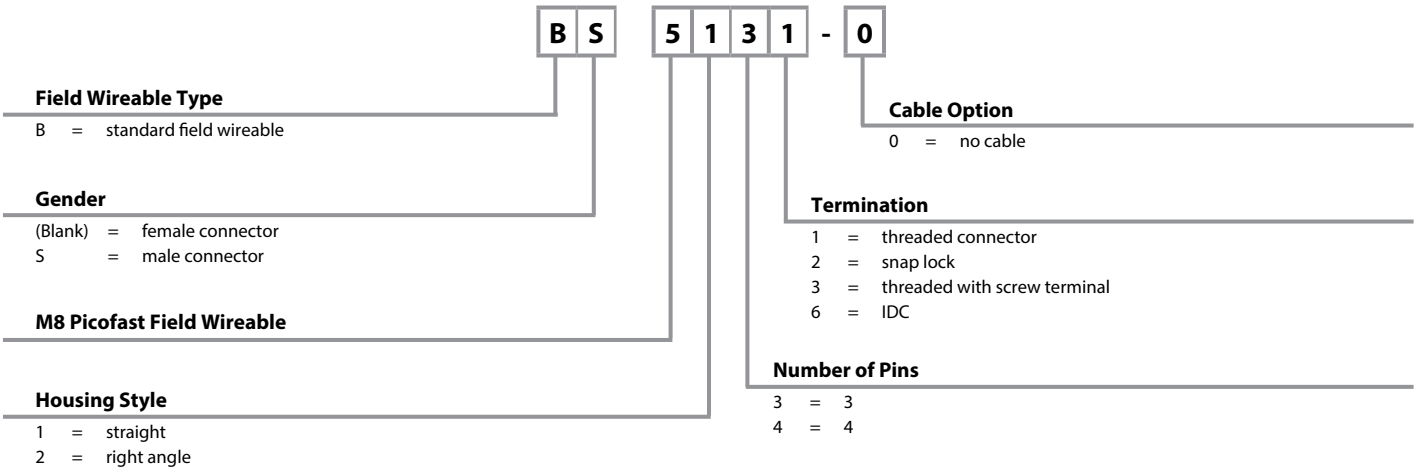
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.



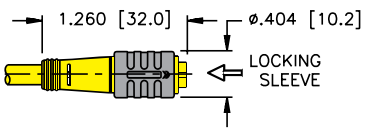
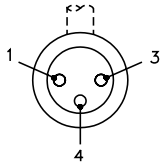
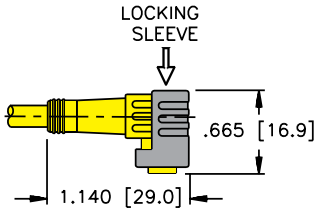
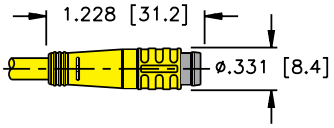
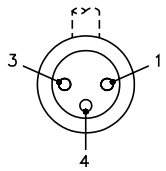
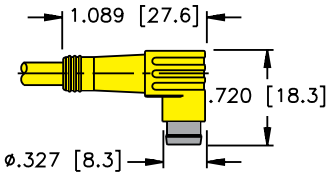
Field Wireable Part Number Key



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

3-Wire Cordsets, Snap Lock (Locking Sleeve)

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z** 	**PKG 3Z-*** **PKW 3Z-***	**PSG 3-*** **PSW 3-***	AWM, PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, Flexlife®	1. BN 3. BU 4. BK	Female 
PKW ..Z** 	**PKG 3Z-*/S90** **PKW 3Z-*/S90**	**PSG 3-*/S90** **PSW 3-*/S90**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, Cut/Abrasion Immune		
	PKG 3Z-*/S90/S101 **PKW 3Z-*/S90/S101**	**PSG 3-*/S90/S101** **PSW 3-*/S90/S101**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, Cut/Abrasion Immune, Flexlife-20, High Flex - Over 20 Million Cycles		
PSG .. 	**PKG 3Z-*/S90/S618** **PKW 3Z-*/S90/S618**	**PSG 3-*/S90/S618** **PSW 3-*/S90/S618**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, Cut/Abrasion Immune, EMI/RFI Protection		Male 
PSW .. 	**PKG 3Z-*/S760** **PKW 3Z-*/S760**	**PSG 3-*/S760** **PSW 3-*/S760**	AWM, PVC Black, 3x24 AWG, 105 °C, 4.2 mm OD, Cable #RF50585-M, Flexlife		

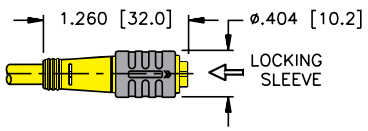
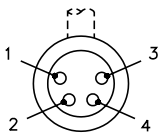
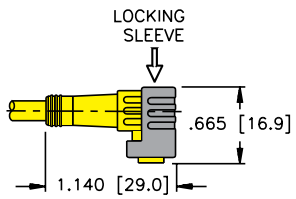
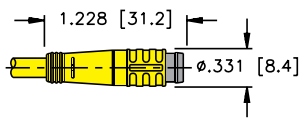
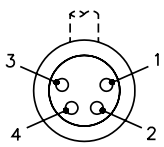
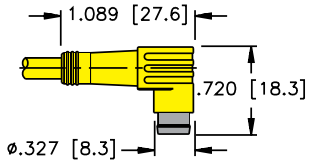
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Locking sleeve material is POM.."PKG..Z".

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, Snap Lock (Locking Sleeve)

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z** 	**PKG 4Z-*** **PKW 4Z-***	**PSG 4-*** **PSW 4-***	AWM, PVC Yellow, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50697-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	PKG 4Z-*/S90 **PKW 4Z-*/S90**	**PSG 4-*/S90** **PSW 4-*/S90**	AWM, TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50586-*M, Cut/Abrasion Immune		
PKW ..Z** 	**PKG 4Z-*/S90/S101** **PKW 4Z-*/S90/S101**	**PSG 4-*/S90/S101** **PSW 4-*/S90/S101**	AWM, TPU Black, 4x26 AWG, 90 °C, 4.4 mm OD, Cable #RF50935-*M, Cut/Abrasion Immune, Flexlife-20, High Flex - Over 20 Million Cycles		
	PKG 4Z-*/S90/S618 **PKW 4Z-*/S90/S618**	**PSG 4-*/S90/S101** **PSW 4-*/S90/S101**	AWM, TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50602-*M, Cut/Abrasion Immune, EMI/RFI Protection		
PSG .. 	**PKG 4Z-*/S760** **PKW 4Z-*/S760**	**PSG 4-*/S760** **PSW 4-*/S760**	AWM, PVC Black, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50870-*M, Flexlife		Male 
PSW .. 	**PKG 4Z-*/S90/S653** **PKW 4Z-*/S90/S653**	**PSG 4-*/S90/S653** **PSW 4-*/S90/S653**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, Cut/Abrasion Immune, EMI/RFI Protection	1. BN 2. Drain 3. BU 4. BK	

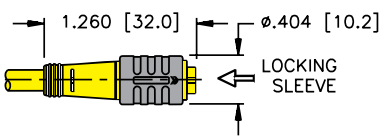
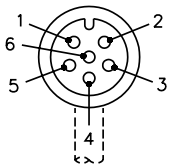
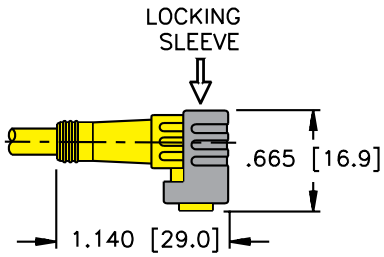
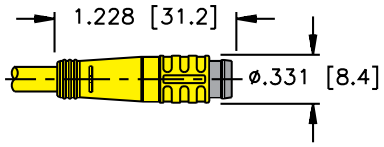
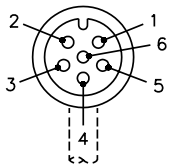
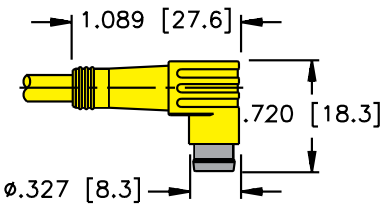
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Locking sleeve material is POM.."PKG..Z".

We reserve the right to make technical alterations without prior notice.

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

6-Wire Cordsets, Snap Lock (Locking Sleeve)

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z** 	**PKG 6Z-*** **PKW 6Z-***	**PSG 6-*** **PSW 6-***	AWM, PVC Yellow, 6x26 AWG, 105 °C, 4.5 mm OD, Cable #RF50734-*M, Flexlife®, UL Listed	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
PKW ..Z** 	**PKG 6Z-*/S90** **PKW 6Z-*/S90**	**PSG 6-*/S90** **PSW 6-*/S90**	AWM, TPU Black, 6x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50735-*M, Cut/Abrasion Immune		
PSG .. 	**PKG 6Z-*/S90/S618** **PKW 6Z-*/S90/S618**	**PSG 6-*/S90/S618** **PSW 6-*/S90/S618**	AWM, TPU Black, 6x26 AWG, 90 °C, 4.2 mm OD, Cable #RF51144-M, Cut/Abrasion Immune EMI/RFI Protection		Male 
PSW .. 	**PKG 6Z-*/S760** **PKW 6Z-*/S760**	**PSG 6-*/S760** **PSW 6-*/S760**	AWM, PVC Black, 6x26 AWG, 105 °C, 4.5 mm OD, Cable #RF51083-*M, Flexlife, UL Listed		

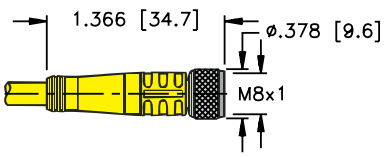
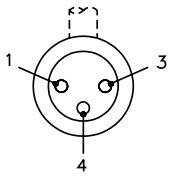
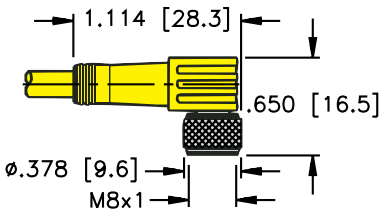
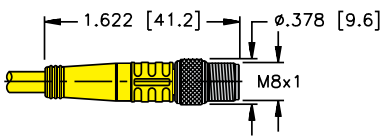
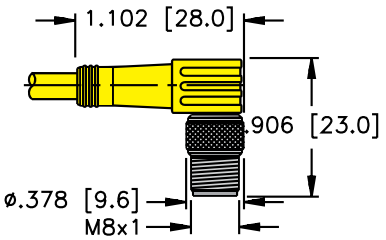
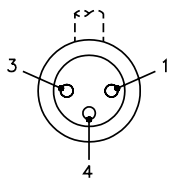
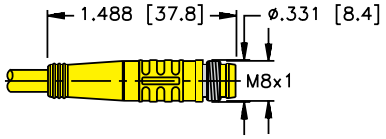
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Locking sleeve material is POM.."PKG..Z".

We reserve the right to make technical alterations without prior notice.

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

3-Wire Cordsets, Threaded Coupling Nut

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z** 	**PKG 3M-* PKW 3M-***	**PSG 3M-* PSW 3M-***	AWM, PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, Flexlife®	1. BN 3. BU 4. BK	Female 
	PKG 3M-*/S90 PKW 3M-*/S90	**PSG 3M-*/S90 PSW 3M-*/S90**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, Cut/Abrasion Immune		
PKW ..M** 	**PKG 3M-*/S90/S101 PKW 3M-*/S90/S101**	**PSG 3M-*/S90/S101 PSW 3M-*/S90/S101**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, Cut/Abrasion Immune, Flexlife-20, High Flex - Over 20 Million Cycles		
PSG .. M** 	**PKG 3M-*/S90/S618 PKW 3M-*/S90/S618**	**PSG 3M-*/S90/S618 PSW 3M-*/S90/S618**	AWM, TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, Cut/Abrasion Immune, EMI/RFI Protection		
	PKG 3M-*/S1587 PKW 3M-*/S1587	**PSG 3M-*/S1587 PSW 3M-*/S1587**	AWM, TPE Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF51271-*M, Weldlife®, Weld Flash Immune		
PSW .. M** 	**PKG 3M-*/S760 PKW 3M-*/S760**	**PSG 3M-*/S760 PSW 3M-*/S760**	AWM, PVC Black, 3x24 AWG, 4.2 mm OD, Cable #RF50585-M, Flexlife	1. BN 3. BU 4. Drain	Male 
	PKG 3M-*/S90/S1084 PKW 3M-*/S90/S1084	**PSG 3M-*/S90/S1084 PSW 3M-*/S90/S1084**	AWM, TPU Black, 2x24 AWG, 90 °C, 4.2 mm OD, Cable #RF51197-*M, Cut/Abrasion Immune, Shielded	1. BN 3. BU 4. BK	
PSG 3F .. ** 		**PSG 3F-***	AWM, PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, Fixed coupling nut		

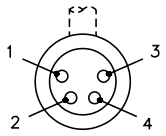
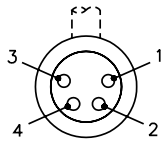
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Standard coupling material is nickel plated brass.."PKG..M"; "PKGV..M" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, Threaded Coupling Nut

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..M** 1.366 [34.7] ø.378 [9.6] M8x1	**PKG 4M-* PKW 4M-***	**PSG 4M-* PSW 4M-***	AWM PVC Yellow, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50697-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	PKG 4M-*/S90 PKW 4M-*/S90	**PSG 4M-*/S90 PSW 4M-*/S90**	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50586-*M, Cut/Abrasion Immune		
PKW ..M** 1.114 [28.3] .650 [16.5] ø.378 [9.6] M8x1	**PKG 4M-*/S90/S101 PKW 4M-*/S90/S101**	**PSG 4M-*/S90/S101 PSW 4M-*/S90/S101**	AWM TPU Black, 4x26 AWG, 90 °C, 4.4 mm OD, Cable #RF50935-*M, Cut/Abrasion Immune, Flexlife-20, High Flex - Over 20 Million Cycles		
PSG .. M** 1.622 [41.2] ø.378 [9.6] M8x1	**PKG 4M-*/S90/S618 PKW 4M-*/S90/S618**	**PSG 4M-*/S90/S618 PSW 4M-*/S90/S618**	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50602-*M, Cut/Abrasion Immune, EMI/RFI Protection		
	PKG 4M-*/S760 PKW 4M-*/S760	**PSG 4M-*/S760 PSW 4M-*/S760**	AWM PVC Black, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50870-*M, Flexlife		Male 
PSW .. M** 1.102 [28.0] .906 [23.0] ø.378 [9.6] M8x1	**PKG 4M-*/S90/S653 PKW 4M-*/S90/S653**	**PSG 4M-*/S90/S653 PSW 4M-*/S90/S653**	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, Cut/Abrasion Immune, EMI/RFI Protection	1. BN 2. Drain 3. BU 4. BK	

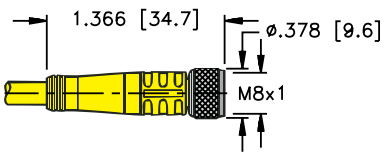
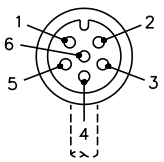
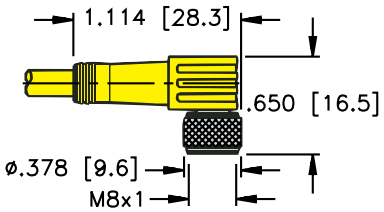
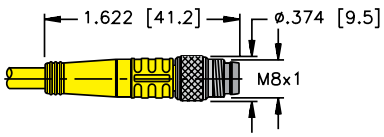
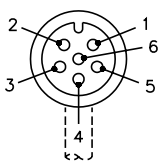
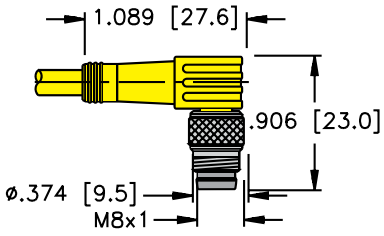
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Standard coupling material is nickel plated brass.."PKG..M"; "PKGV..M" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

6-Wire Cordsets, Threaded Coupling Nut

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..M** 	**PKG 6M-* PKW 6M-***	**PSG 6M-* PSW 6M-***	AWM PVC Yellow, 6x26 AWG, 105 °C, 4.5 mm OD, Cable #RF50734-*M, Flexlife®, UL Listed	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
PKW ..M** 	**PKG 6M-*/S90 PKW 6M-*/S90**	**PSG 6M-*/S90 PSW 6M-*/S90**	AWM TPU Black, 6x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50735-*M, Cut/Abrasion Immune		
PSG .. M** 	**PKG 6M-*/S760 PKW 6M-*/S760**	**PSG 6M-*/S760 PSW 6M-*/S760**	AWM PVC Black, 6x26 AWG, 105 °C, 4.5 mm OD, Cable #RF51083-*M, Flexlife, UL Listed		Male 
PSW .. M** 	**PKG 6M-*/S90/S618 PKW 6M-*/S90/S618**	**PSG 6M-*/S90/S618 PSW 6M-*/S90/S618**	AWM TPU Black, 6x26 AWG, 90 °C, 4.2 mm OD, Cable #RF51144-*M, Cut/Abrasion Immune EMI/RFI Protection		

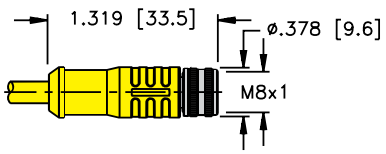
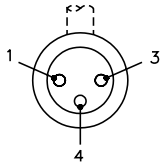
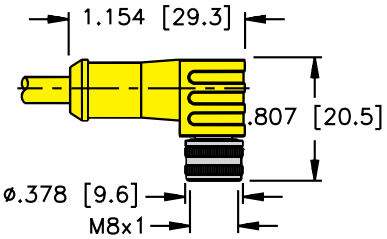
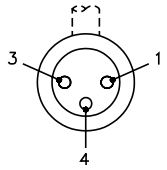
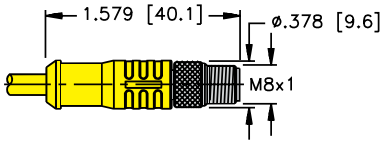
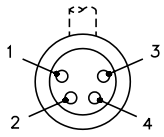
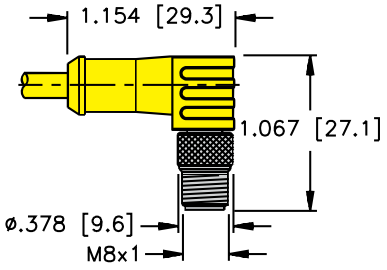
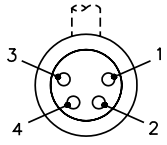
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters.
** Standard coupling material is nickel plated brass.."PKG..M"; "PKGV..M" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Cordsets, Threaded Coupling Nut, Shielded

- **Shield to Coupling Nut**
- **IEC IP67 Protection**
- **125 V, 4 A (3-pin), 2 A (4-pin)**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..M** 	**PKGS 3M-* PKWS 3M-***	**PSGS 3M-* PSWS 3M-***	AWM, PVC Yellow, 3x24 AWG, 105 °C, 5.1 mm OD, Cable #RF51422-*M, RFI/EMI Shielding Tied to Coupling Nut	1. BN 3. BU 4. BK	Female 
PKW ..M** 	**PKGS 3M-*/S90 PKWS 3M-*/S90**	**PSGS 3M-*/S90 PSWS 3M-*/S90**	AWM, TPU Black, 3x24 AWG, 90 °C, 5.1 mm OD, Cable #RF51423-*M, RFI/EMI Shielding Tied to Coupling Nut		Male 
PSG .. M** 	**PKGS 4M-* PKWS 4M-***	**PSGS 4M-* PSWS 4M-***	AWM, PVC Yellow, 4x26 AWG, 105 °C, 5.1 mm OD, Cable #RF51424-*M, RFI/EMI Shielding Tied to Coupling Nut	1. BN 2. WH 3. BU 4. BK	Female 
PSW .. M** 	**PKGS 4M-*/S90 PKWS 4M-*/S90**	**PSGS 4M-*/S90 PSWS 4M-*/S90**	AWM, TPU Black, 4x26 AWG, 90 °C, 5.1 mm OD, Cable #RF51425-*M, RFI/EMI Shielding Tied to Coupling Nut		Male 

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling material is nickel plated brass.

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Cordsets, with LEDs, Snap Lock (Locking Sleeve)

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 10-30 VDC, 4 A (3-pin), 2 A (4-pin)

Connector Style	Female Part Number	Features	Pinout	
PKW ..Z** YELLOW (OUTPUT) GREEN (POWER) LOCKING SLEEVE .665 [16.9] 1.140 [29.0]	**PKW 3Z-P7X2-***	AWM PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, PNP Signal, Flexlife®	1. BN 3. BU 4. BK	Female 1 3 4
	PKW 3Z-P7X2-*/S90	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, PNP Signal, Cut/Abrasion Immune		
	PKW 3Z-P7X2-*/S90/S618	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, PNP Signal, Cut/Abrasion Immune, EMI/RFI Protection		
	PKW 3Z-P7X2-*/S90/S101	AWM TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, PNP Signal, Cut/Abrasion Immune, Flexlife-20, High Flex - over 20 Million Cycles		
	PKW 3Z-N7X2-*	AWM PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, NPN Signal, Flexlife		
	PKW 3Z-N7X2-*/S90	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, NPN Signal, Cut/Abrasion Immune		
	PKW 3Z-N7X2-*/S90/S618	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, NPN Signal, Cut/Abrasion Immune, EMI/RFI Protection		
	PKW 3Z-N7X2-*/S90/S101	AWM TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, NPN Signal, Cut/Abrasion Immune, Flexlife-20, High Flex - over 20 Million Cycles		
	PKW 4Z-P7X2-*	AWM PVC Yellow, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50697-*M, PNP Signal, Flexlife	1. BN 2. WH 3. BU 4. BK	Male 1 3 2 4
	PKW 4Z-P7X2-*/S90	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50586-*M, PNP Signal, Cut/Abrasion Immune		
	PKW 4Z-P7X2-*/S90/S101	AWM TPU Black, 4x26 AWG, 90 °C, 4.4 mm OD, Cable #RF50935-*M, PNP Signal, Cut/Abrasion Immune, Flexlife-20, High Flex - Over 20 Million Cycles		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
** Locking sleeve material is POM.."PKW..Z".

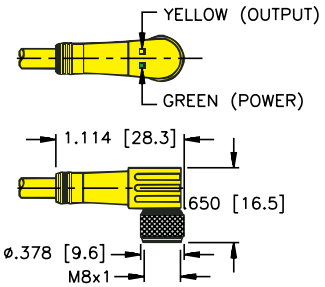
We reserve the right to make technical alterations without prior notice.

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

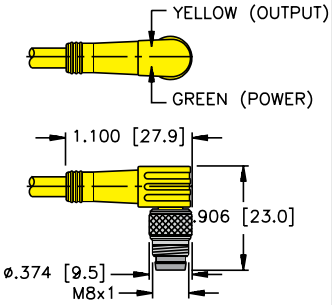
3 and 4-Wire Cordsets, Threaded Coupling Nut, Shielded

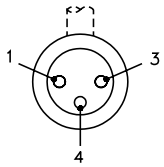
- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 10-30 VDC, 4 A

PKW ..M**



PSW .. M**



Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	PKW 3M-P7X2-*	**PSW 3M-P7X2-***	AWM PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, PNP Signal, Flexlife®	1. BN 3. BU 4. BK	**Female** 
	PKW 3M-P7X2-*/S90	**PSW 3M-P7X2-*/S90**	AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, PNP Signal, Cut/Abrasion Immune		
	PKW 3M-P7X2-*/S90/S101	**PSW 3M-P7X2-*/S90/S101**	AWM TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, PNP Signal, Cut/Abrasion Immune, Flexlife-20, High Flex - over 20 Million Cycles		
	PKW 3M-P7X2-*/S90/S618		AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, PNP Signal, Cut/Abrasion Immune, EMI/RFI Protection		
	PKW 3M-N7X2-*		AWM PVC Yellow, 3x24 AWG, 105 °C, 4.4 mm OD, Cable #RF50642-*M, NPN Signal, Flexlife		
	PKW 3M-N7X2-*/S90		AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50587-*M, NPN Signal, Cut/Abrasion Immune		
	PKW 3M-N7X2-*/S90/S101		AWM TPU Black, 3x24 AWG, 90 °C, 4.4 mm OD, Cable #RF51166-*M, NPN Signal, Cut/Abrasion Immune, Flexlife-20, High Flex - over 20 Million Cycles		
	PKW 3M-N7X2-*/S90/S618		AWM TPU Black, 3x24 AWG, 90 °C, 4.2 mm OD, Cable #RF50601-*M, NPN Signal, Cut/Abrasion Immune, EMI/RFI Protection		

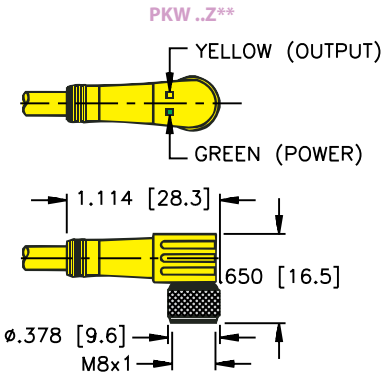
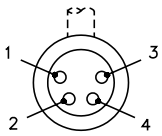
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling material is nickel plated brass.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, with LEDs, Threaded Coupling Nut

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **10-30 VDC, 2 A**

Connector Style	Female Part Number	Features	Pinout	
	**PKW 4M-P7X2-***	AWM PVC Yellow, 4x26 AWG, 105 °C, 4.4 mm OD, Cable #RF50697-*M, PNP Signal, Flexlife®	1. BN 2. WH 3. BU 4. BK	**Female** 
	PKW 4M-P7X2-*/S90	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50586-*M, PNP Signal, Cut/ Abrasion Immune		
	PKW 4M-P7X2-*/S90/S101	AWM TPU Black, 4x26 AWG, 90 °C, 4.4 mm OD, Cable #RF50935-*M, PNP Signal, Cut/ Abrasion Immune, Flexlife-20, High Flex - over 20 Million Cycles		
	PKW 4M-P7X2-*/S90/S618	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50602-*M, PNP Signal, Cut/ Abrasion Immune, EMI/RFI Protection		

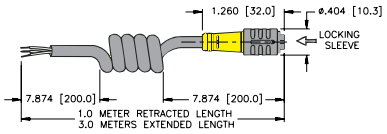
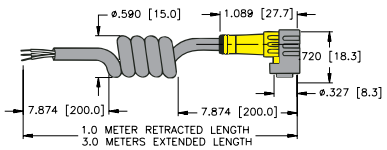
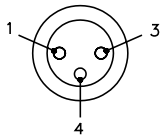
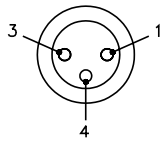
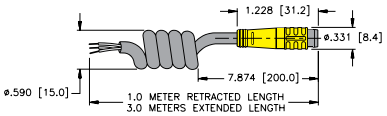
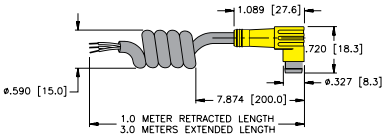
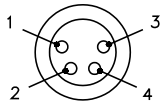
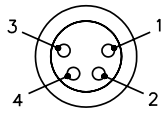
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
** Locking sleeve material is POM.."PKW..Z".

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Spiral Cordsets, Snap Lock (Locking Sleeve)

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 125 V, 4 A (3-pin) and 2 A (4-pin)

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z**  PKW ..Z**  	**PKG 3Z-3/S90-SP** **PKW 3Z-3/S90-SP**	**PSG 3-3/S90-SP** **PSW 3-3/S90-SP**	AWM TPU Black, 4x26 AWG, 90 °C, 125 VAC/ VDC, 4 A, 4.2 mm OD, for repetitive motion 3-wire applications, snap lock coupling nut	1. BN 3. BU 4. BK	Female  Male 
PSG ..  PSW ..  	**PKG 4Z-3/S90-SP** **PKW 4Z-3/S90-SP**	**PSG 4-3/S90-SP** **PSW 4-3/S90-SP**	AWM TPU Black, 4x26 AWG, 90 °C, 125 VAC/ VDC, 2 A, 4.2 mm OD, for repetitive motion 4-wire applications, snap lock coupling nut	1. BN 2. WH 3. BU 4. BK	Female  Male 

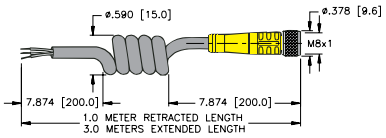
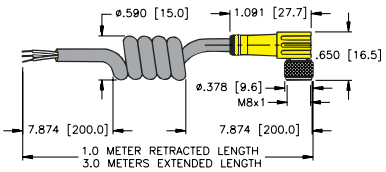
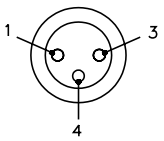
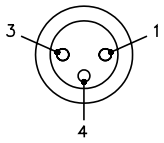
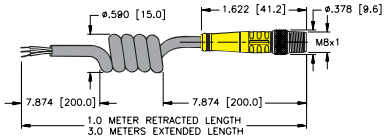
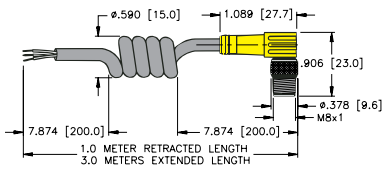
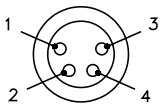
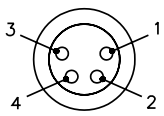
* Length in meters. Standard cable length is 3 meters. Consult factory for other lengths.
** Locking sleeve material is POM.."PKG(W)..Z".

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Spiral Cordsets, Threaded Coupling Nut

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **125 VAC/VDC, 4 A (3-pin) and 2 A (4-pin)**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
PKG ..Z**  PKW ..Z**  	**PKG 3M-3/S90-SP** **PKW 3M-3/S90-SP**	**PSG 3M-3/S90-SP** **PSW 3M-3/S90-SP**	AWM TPU Black, 4x26 AWG, 90 °C, 125 VAC/ VDC, 4 A, 4.2 mm OD, for repetitive motion 3-wire applications, threaded coupling nut	1. BN 3. BU 4. BK	Female  Male 
PSG ..  PSW ..  	**PKG 4M-3/S90-SP** **PKW 4M-3/S90-SP**	**PSG 4M-3/S90-SP** **PSW 4M-3/S90-SP**	AWM TPU Black, 4x26 AWG, 90 °C, 125 VAC/ VDC, 2 A, 4.2 mm OD, for repetitive motion 4-wire applications, threaded coupling nut	1. BN 2. WH 3. BU 4. BK	Female  Male 

* Length in meters. Standard cable length is 3 meters. Consult factory for other lengths.
** Locking sleeve material is POM.."PKW..Z".

We reserve the right to make technical alterations without prior notice.

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

Receptacle Selection Guide

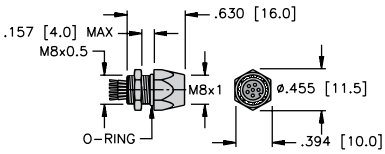
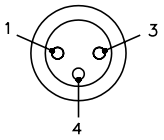
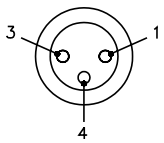
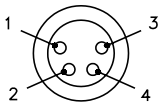
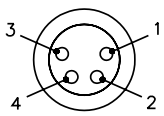
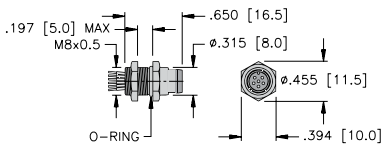
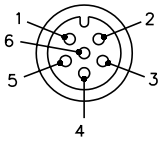
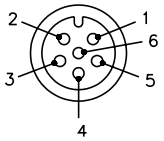
Mounting Style	Image	Panel Thread Types	Page
Front Mount		M8	C17
Rear Mount		M8	C18
		7/16-20 with Solder Cups	C22
PCB Mount		M8 with PCB Pins	C19
		7/16-20 with Header Pins	C19
		M8 with Header Pins	C20

We reserve the right to make technical alterations without prior notice.

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

3, 4 and 6-Wire Receptacles, Front Mount

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
MFKS ..  **Typical panel cutout is 8.2 mm**	**MFKS 3-***		3x24 AWG, 105 °C, 125 V, 4 A, mates with 3-pin threaded female cordsets	1. BN 3. BU 4. BK	Female 
		MFS 3-*	3x24 AWG, 105 °C, 125 V, 4 A, mates with 3-pin snap lock female cordsets		Male 
	MFKS 4-*		4x24 AWG, 105 °C, 125 V, 4 A, mates with 4-pin threaded female cordsets	1. BN 2. WH 3. BU 4. BK	Female 
		MFS 4-*	4x24 AWG, 105 °C, 125 V, 4 A, mates with 4-pin snap lock female cordsets		Male 
MFS ..  **Typical panel cutout is 8.2 mm**	**MFKS 6-***		6x24 AWG, 105 °C, 125 V, 2 A, mates with 6-pin threaded female cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
		MFS 6-*	6x24 AWG, 105 °C, 125 V, 2 A, mates with 6-pin snap lock female cordsets		Male 

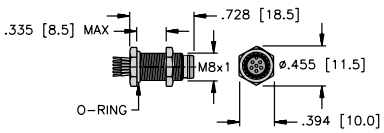
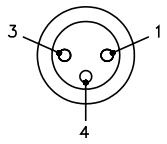
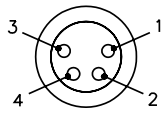
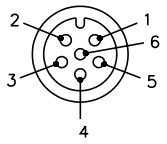
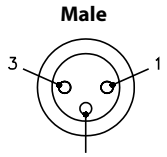
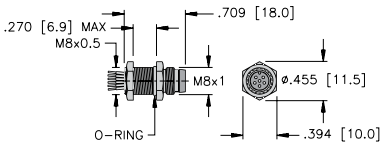
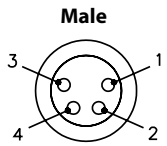
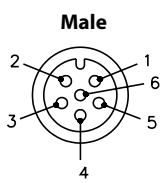
* Length in meters. Standard lead length is 0.2 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass .. "MFK(S)..."; "MFK(S)V.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3, 4 and 6-Wire Receptacles, Rear Mount

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**

Housing Style	Male Part Number	Features	Pinout	
MFS ..F..  **Typical panel cutout is 8.2 mm**	**MFS 3F-***	3x24 AWG, 105 °C, 125 V, 4 A, mates with 3-pin snap lock or threaded female cordsets, rear mount	1. BN 3. BU 4. BK	Male 
	MFS 4F-*	4x24 AWG, 105 °C, 125 V, 4 A, mates with 4-pin snap lock or threaded female cordsets, rear mount	1. BN 2. WH 3. BU 4. BK	Male 
	MFS 6F-*	6x24 AWG, 105 °C, 125 V, 2 A, mates with 6-pin snap lock or threaded female cordsets, rear mount	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Male 
	MFSS 3-*	3x24 AWG, 105 °C, 125 V, 4 A, mates with 3-pin snap lock or threaded female cordsets, front mount	1. BN 3. BU 4. BK	Male 
MFSS ..  **Typical panel cutout is 8.2 x 7.1 mm**	**MFSS 4-***	4x24 AWG, 105 °C, 125 V, 4 A, mates with 4-pin snap lock or threaded female cordsets, front mount	1. BN 2. WH 3. BU 4. BK	Male 
	MFSS 6-*	4x24 AWG, 105 °C, 125 V, 4 A, mates with 4-pin snap lock or threaded female cordsets, front mount	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Male 

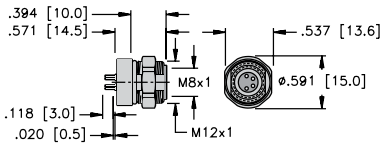
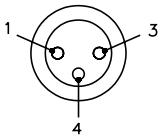
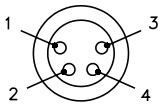
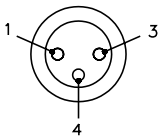
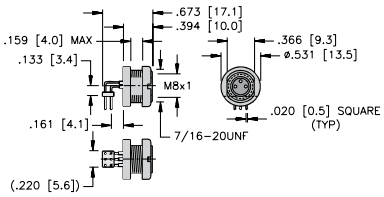
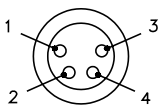
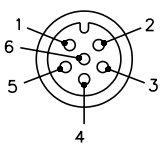
* Length in meters. Standard lead length is 0.2 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass .. "MFS(S).."; "MFS(S)V.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

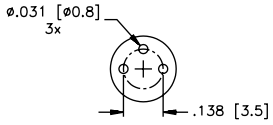
3, 4 and 6-Pin Receptacles with PCB Pins

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**

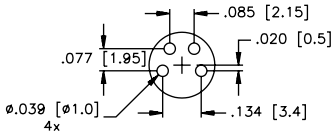
Housing Style	Female Part Number	Features	Pinout
MFKS .. F-PCBF 	**MFKS 3F-PCBF**	PCB Pins, 85 °C, 60 V, 4 A, mates with 3-pin threaded male cordsets	Female 
	MFKS 4F-PCBF	PCB Pins, 85 °C, 30 V, 4 A, mates with 4-pin threaded male cordsets	Female 
	WMFK 3F-PCB	PCB Pins, 80 °C, 60 VAC/75 VDC, 4 A, mates with 3-pin threaded male cordsets	Female 
WMFK .. F-PCB 	**WMFK 4F-PCB**	PCB Pins, 80 °C, 30 VAC/36 VDC, 4 A, mates with 4-pin threaded male cordsets	Female 
	WMFK 6F-PCB	PCB Pins, 80 °C, 24 VDC, 1 A, mates with 6-pin threaded male cordsets	Female 

Standard housing material is nickel plated brass.

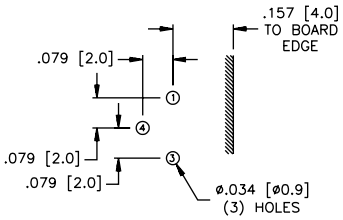
MFKS 3F-PCBF



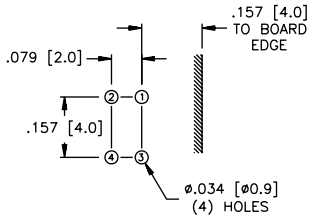
MFKS 4F-PCBF



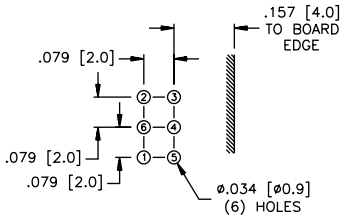
WMFK 3F-PCB



WMFK 4F-PCB



WMFK 6F-PCB

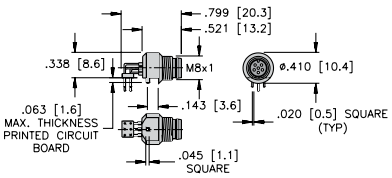
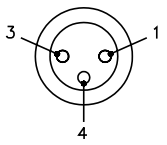
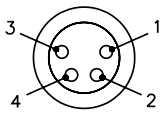
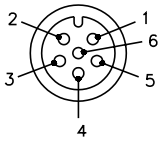
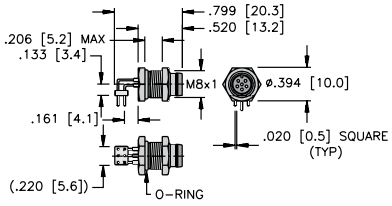
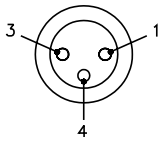
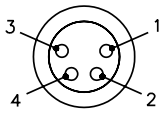
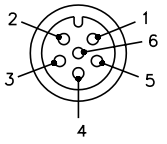


We reserve the right to make technical alterations without prior notice.

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

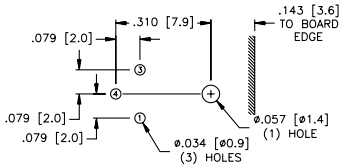
3, 4 and 6-Pin Receptacles with PCB Pins

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

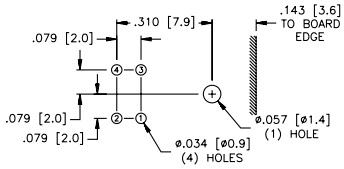
Housing Style	Male Part Number	Features	Pinout
MFKS .. F-PCBF 	**WMFS 3-PCB**	PCB Pins, 80 °C, 60 VAC/75 VDC, 4 A, mates with 3-pin snap lock or threaded female cordsets	Male 
	WMFS 4-PCB	PCB Pins, 80 °C, 30 VAC/36 VDC, 4 A, mates with 4-pin snap lock or threaded female cordsets	Male 
	WMFS 6-PCB	PCB Pins, 80 °C, 24 VDC, 1 A, mates with 6-pin snap lock or threaded female cordsets	Male 
WMFK .. F-PCB 	**WMFS 3F-PCB**	PCB Pins, 80 °C, 75 VDC, 4 A, mates with 3-pin snap lock or threaded female cordsets	Male 
	WMFS 4F-PCB	PCB Pins, 80 °C, 36 VDC, 4 A, mates with 4-pin snap lock or threaded female cordsets	Male 
	WMFS 6F-PCB	PCB Pins, 80 °C, 24 VDC, 1 A, mates with 6-pin snap lock or threaded female cordsets	Male 

Standard housing material is nickel plated brass.

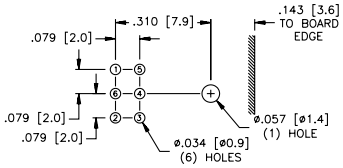
WMFS 3-PCB



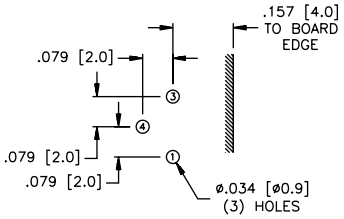
WMFS 4-PCB



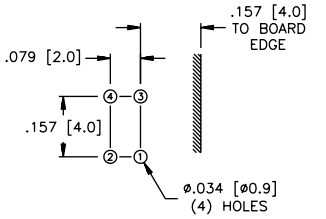
WMFS 6-PCB



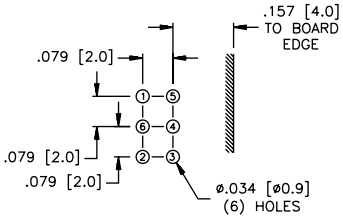
WMFS 3F-PCB



WMFS 4F-PCB



WMFS 6F-PCB

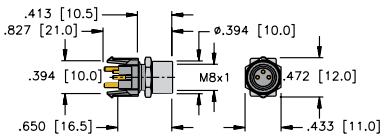
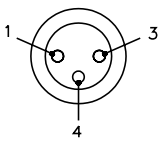
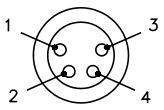
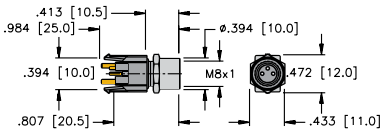
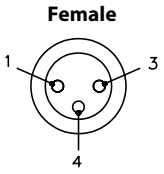
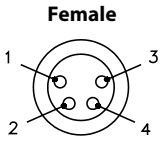
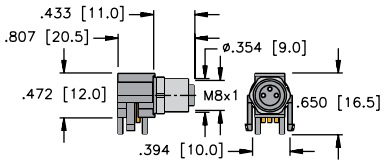
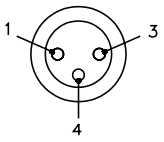
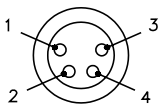


We reserve the right to make technical alterations without prior notice.

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

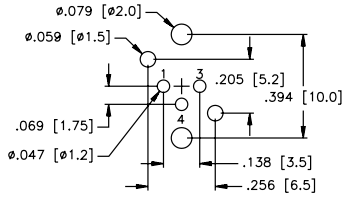
3 and 4-Pin Receptacles with PCB Pins and Mounting Bracket

- **IEC IP67 Protection**

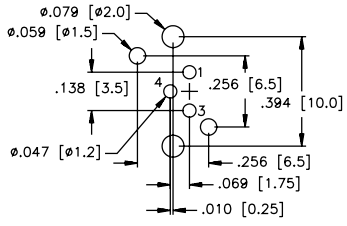
Housing Style	Female Part Number	Features	Pinout
MFKSH .. F-PCB 	**MFKSH 3F-PCB**	PCB Pins, 85 °C, 60 V, 4 A, mates with 3-pin threaded male cordsets	Female 
	MFKSH 4F-PCB	PCB Pins, 85 °C, 30 V, 4 A, mates with 4-pin threaded male cordsets	Female 
MFKSHL .. F-PCB 	**MFKSHL 3F-PCB**	PCB Pins, Long Bracket, 85 °C, 60 V, 4 A, mates with 3-pin threaded male cordsets	Female 
	MFKSHL 4F-PCB	PCB Pins, Long Bracket, 85 °C, 30 V, 4 A, mates with 4-pin threaded male cordsets	Female 
WMFKSH .. F-PCB 	**WMFKSH 3F-PCB**	PCB Pins, 85 °C, 60 V, 4 A, mates with 3-pin threaded male cordsets	Female 
	WMFKSH 4F-PCB	PCB Pins, 85 °C, 30 V, 4 A, mates with 4-pin threaded male cordsets	Female 

Standard housing material is nickel plated brass.

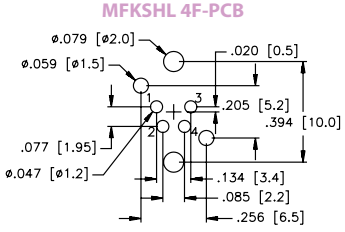
MFKSH 3F-PCB
MFKSHL 3F-PCB



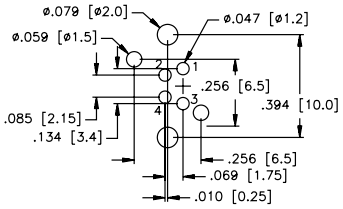
WMFKSH 3F-PCB



MFKSH 4F-PCB
MFKSHL 4F-PCB



WMFKSH 4F-PCB



We reserve the right to make technical alterations without prior notice.

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

3, 4 and 6-Pin Receptacles, Rear Mount with Solder Cups

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**

Housing Style	Female Part Number	Features	Pinout
MFKS .. F .159 [4.0]MAX 7/16–20UNF M8x1 .114 [2.9] .394 [10.0] ø.531 [13.5] .366 [9.3]	**MFKS 3F**	Solder Cups, accepts up to 22 AWG conductors, 80 °C, 125 V, 4 A, mates with 3-pin threaded male cordsets	**Female** 1 3 4
	MFKS 4F	Solder Cups, accepts up to 22 AWG conductors, 80 °C, 125 V, 2 A, mates with 4-pin threaded male cordsets	**Female** 1 3 2 4
	MFKS 6F	Solder Cups, accepts up to 24 AWG conductors, 80 °C, 125 V, 2 A, mates with 6-pin threaded male cordsets	**Female** 1 2 6 5 3 4

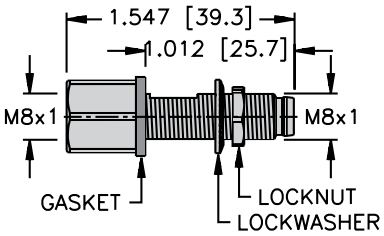
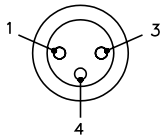
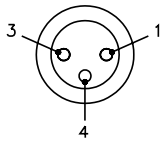
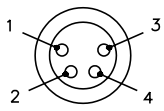
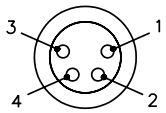
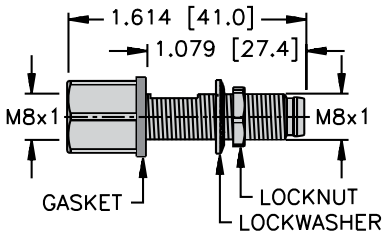
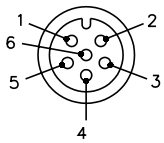
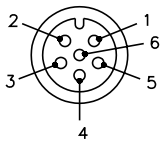
Standard housing material is nickel plated brass.

We reserve the right to make technical alterations without prior notice.

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

3, 4 and 6-Pin Feed-Thru Receptacles

- **Female to Male Receptacles**
- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**

Housing Style	Part Number	Features	Pinout
MFSV MFKV .. 	**MFSV MFKV 3/M8**	3-conductor, 80 °C, 125 V, 4 A, mates with 3-pin threaded cordsets	Female  Male 
	MFSV MFKV 4/M8	4-conductor, 80 °C, 125 V, 2 A, mates with 4-pin threaded cordsets	Female  Male 
MFSV MFKV .. 	**MFSV MFKV 6/M8**	6-conductor, 80 °C, 125 V, 2 A, mates with 6-pin threaded cordsets	Female  Male 

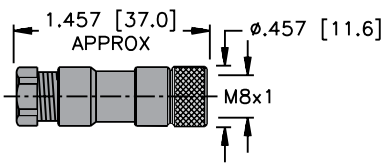
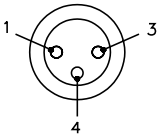
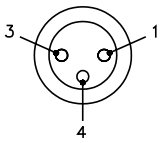
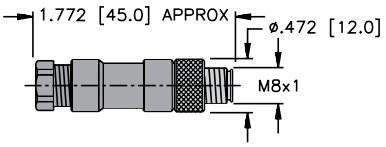
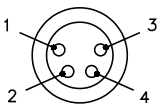
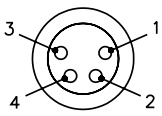
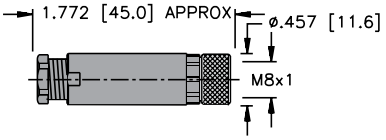
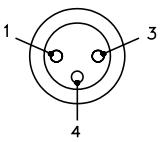
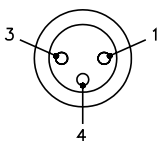
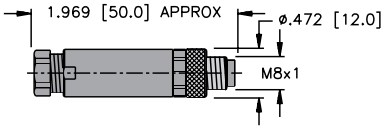
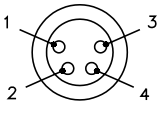
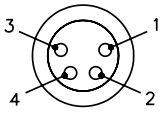
Standard housing material is nickel plated brass.

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Pin Field Wireable Connectors, Standard

- **IEC IP67 Protection**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 513(4)1-0 	**B 5131-0**	**BS 5131-0**	PBT, Black, accepts 3-5 mm cable diameter, solder terminals, accepts up to 24 AWG conductors, 85 °C, 60 VAC/75 VDC, 4 A, mates with 4-pin threaded cordsets and receptacles	Female  Male 
BS 513(4)1-0 	**B 5141-0**	**BS 5141-0**	PBT, Black, accepts 3-5 mm cable diameter, solder terminals, accepts up to 24 AWG conductors, 85 °C, 30 VAC/36 VDC, 4 A, mates with 4-pin threaded cordsets and receptacles	Female  Male 
B 513(4)3-0 	**B 5133-0**	**BS 5133-0**	PBT, Black, accepts 3-5 mm cable diameter, screw terminals, accepts up to 22 AWG conductors, 85 °C, 60 VAC/75 VDC, 4 A, mates with 3-pin threaded cordsets and receptacles	Female  Male 
BS 513(4)3-0 	**B 5143-0**	**BS 5143-0**	PBT, Black, accepts 3-5 mm cable diameter, screw terminals, accepts up to 22 AWG conductors, 85 °C, 60 VAC/75 VDC, 4 A, mates with 4-pin threaded cordsets and receptacles	Female  Male 

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Pin Field Wireable Connectors, Standard

- **IEC IP67 Protection**

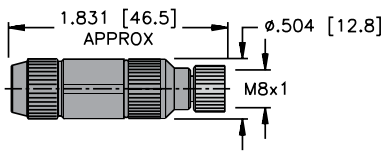
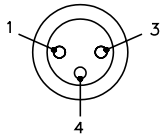
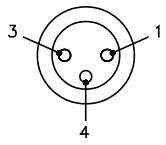
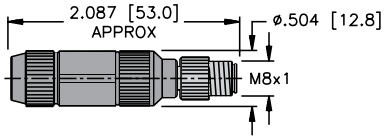
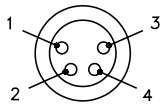
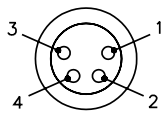
Housing Style	Female Part Number	Male Part Number	Features	Pinout
		BS 5132-0	PBT, Black, accepts 3-5 mm cable diameter, solder terminals, accepts up to 26 AWG conductors, 85 °C, 60 VAC/75 VDC, 4 A, mates with 3-pin female snap-lock cordsets, receptacles and junction boxes and threaded cordsets	**Male** 3 1 4
BS 513(4)2-0 1.339 [34.0] APPROX ø.450 [11.4] M8x1		**BS 5142-0**	PBT, Black, accepts 3-5 mm cable diameter, solder terminals, accepts up to 26 AWG conductors, 85 °C, 60 VAC/75 VDC, 2 A, mates with 3-pin female snap-lock cordsets, receptacles and junction boxes and threaded cordsets	**Male** 3 1 4 2
B 523(4)1-0 1.102 [28.0] REF ø.457 [11.6] M8x1 .984 [25.0] APPROX	**B 5231-0**	**BS 5231-0**	PBT, Black, Accepts 3-5 mm cable diameter, solder terminals, accepts up to 24 AWG conductors, 85 °C, 60 VAC/75 VDC, 4 A, mates with 3-pin threaded cordsets and receptacles	**Female** 1 3 4 **Male** 3 1 4
BS 523(4)1-0 1.362 [34.6] REF ø.472 [12.0] M8x1 .984 [25.0] APPROX	**B 5241-0**	**BS 5241-0**	PBT, Black, accepts 3-5 mm cable diameter, solder terminals, accepts up to 24 AWG conductors, 85 °C, 30 VAC/36 VDC, 4 A, mates with 4-pin threaded cordsets and receptacles	**Female** 1 3 2 4 **Male** 3 1 4 2

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Pin Field Wireable Connectors, IDC

- **Insulation Displacement Technology**
- **No Conductor Stripping Required**
- **IEC IP67 Protection**

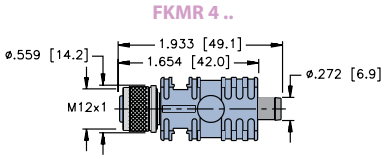
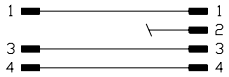
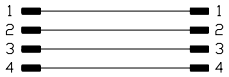
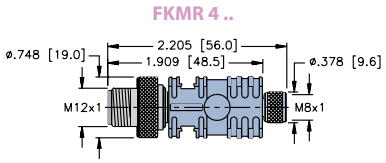
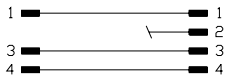
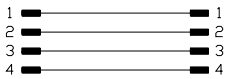
Housing Style	Female Part Number		Features	Pinout
B 513(4)6-0 	**B 5136-0**	**BS 5136-0**	Nickel plated brass, accepts 4-5 mm cable diameter, IDC, accepts 22-26 AWG conductors, 85 °C, 32 V, 4 A, mates with 3-pin threaded cordsets and receptacles	**Female**  **Male** 
BS 513(4)6-0 	**B 5146-0**	**BS 5146-0**	Nickel plated brass, accepts 4-5 mm cable diameter, IDC, accepts 22-26 AWG conductors, 85 °C, 32 V, 4 A, mates with 4-pin threaded cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

M8 Picofast to M12 Eurofast® Adapters

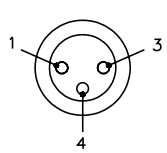
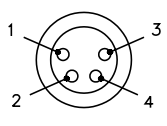
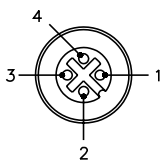
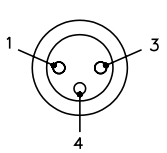
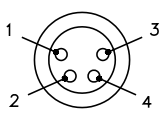
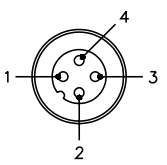
- **Enables Picofast and Eurofast Connectors to be interchanged**
- **Eurofast Connection has Anti-vibration Coupling Nut**
- **IEC IP67 Protection**

Housing Style	Part Number	Features	Wiring Diagram
	**FKMR 4-ESM 3S**	TPU body, 60 VAC/75 VDC, 4 A, 80 °C, female Eurofast, male snap-lock Picofast connector, 3-pin	
	FKMR 4.4-ESM 4S	TPU body, 30 VAC/36 VDC, 4 A, 80 °C, female Eurofast, male snap-lock Picofast connector, 4-pin	
	**FSMR 4-SKM 3**	TPU body, 60 VAC/75 VDC, 4 A, 80 °C, male Eurofast, female threaded Picofast connector, 3-pin	
	FSMR 4.4-SKM 4	TPU body, 30 VAC/36 VDC, 4 A, 80 °C, male Eurofast, female threaded Picofast connector, 4-pin	

Add "/S857" to the end of part description to specify addition of mounting hole.

We reserve the right to make technical alterations without prior notice.

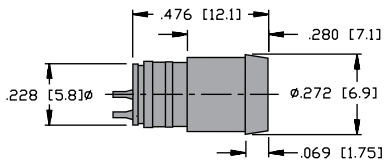
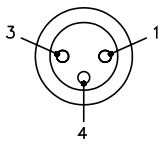
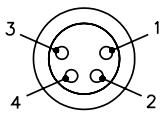
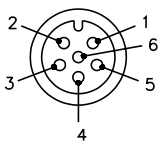
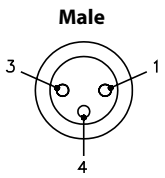
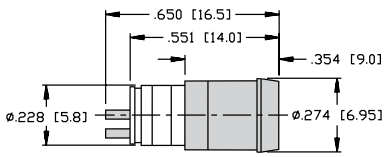
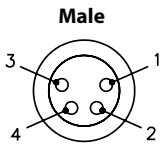
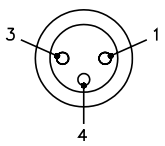
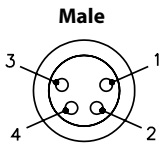
Pinouts

3-Pin Picofast	4-Pin Picofast	4-Pin Eurofast	3-Pin Picofast	4-Pin Picofast	4-Pin Eurofast
Female			Male		
					

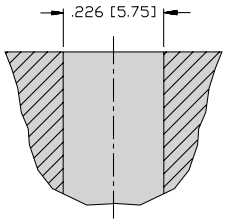
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Connector Inserts

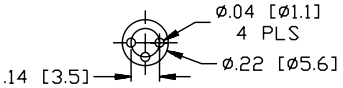
- For use in Sensors and Custom Receptacles
- Clear Body versions for use with Indicator LEDs
- Solder Lug or Printed Circuit Pin mounting options

Housing Style	Female Part Number	Features	Pinout
ESM .. 	**ESM 3S (10/BAG)**	Nylon, black, solder cup, accepts 26 AWG, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock	Male 
	ESM 4S (10/BAG)	Nylon, black, solder cup, accepts 28 AWG, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock	Male 
	ESM 6S (10/BAG)	Nylon, black, solder cup, accepts 26 AWG, 24 VDC, 1 A, 80 °C, 6-pin snap lock	Male 
	ESHM 3L (10/BAG)	Nickel plated brass and nylon housing, solder cup, accepts 26 AWG, 30 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock clear body for LED	Male 
ESHM .. 	**ESHM 4L (10/BAG)**	Nickel plated brass and nylon housing, solder cup, accepts 26 AWG, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock clear body for LED	Male 
	ESHM 3P (10/BAG)	Nickel plated brass and nylon housing, PCB pin, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock clear body for LED	Male 
	ESHM 4P (10/BAG)	Nickel plated brass and nylon housing, PCB pin, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock clear body for LED	Male 

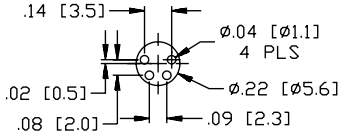
Mounting Bore (for male insert)



3-pin PCB Board Layout



4-pin PCB Board Layout

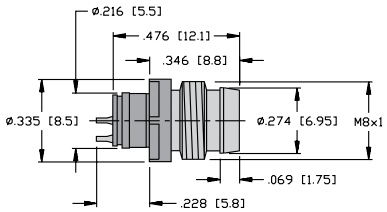
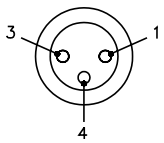
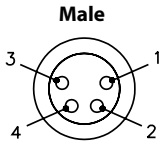
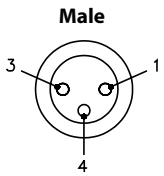
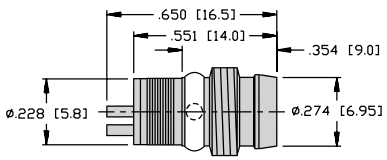
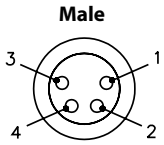
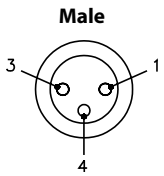
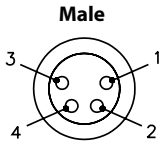


We reserve the right to make technical alterations without prior notice.

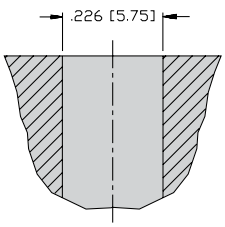
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Connector Inserts

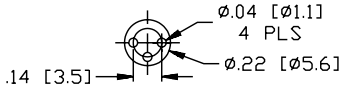
- **For use in Sensors and Custom Receptacles**
- **Clear Body versions for use with Indicator LEDs**
- **Solder Lug or Printed Circuit Pin mounting options**

Housing Style	Male Part Number	Features	Pinout
SESM .. 	**SESM 3S (10/BAG)**	Nickel plated brass and nylon housing, solder cup, accepts 26 AWG, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock or threaded	Male 
	SESM 4S (10/BAG)	Nickel plated brass and nylon housing, solder cup, accepts 28 AWG, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock or threaded	Male 
	ESGM 3L (10/BAG)	Nickel plated brass housing with clear nylon lens, solder cup, accepts 26 AWG, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock or threaded, clear lens for LED	Male 
ESGM .. 	**ESGM 4L (10/BAG)**	Nickel plated brass housing with clear nylon lens, solder cup, accepts 26 AWG, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock or threaded, clear lens for LED	Male 
	ESGM 3P (10/BAG)	Nickel plated brass housing with clear nylon lens, PCB pin, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock or threaded, clear lens for LED	Male 
	ESGM 4P (10/BAG)	Nickel plated brass housing with clear nylon lens, PCB pin, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock or threaded, clear lens for LED	Male 

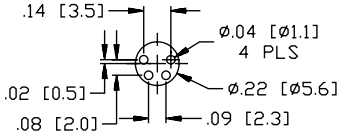
Mounting Bore (for male insert)



3-pin PCB Board Layout



4-pin PCB Board Layout

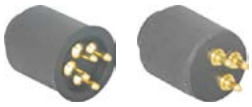


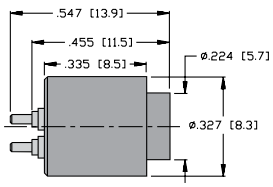
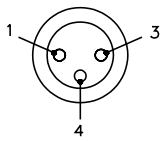
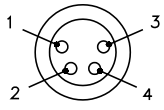
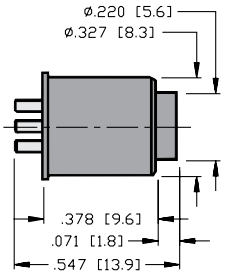
We reserve the right to make technical alterations without prior notice.

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

Connector Inserts

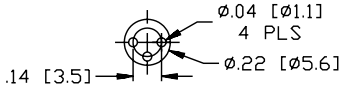
- For use in Sensors and Custom Receptacles
- Clear Body versions for use with Indicator LEDs
- Female Inserts
- Solder Lug or Printed Circuit Pin mounting options



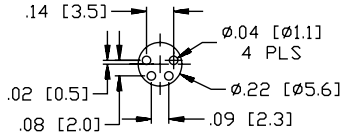
Housing Style	Female Part Number	Features	Pinout
MFK .. 	**MFK 3 (10/BAG)**	TPU housing, black, PCB pins, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock	Female 
	MFK 4 (10/BAG)	TPU housing, black, PCB pins, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock	
	MFKB 3 (10/BAG)	TPU housing, black, PCB pins, 60 VAC/75 VDC, 4 A, 80 °C, 3-pin snap lock	Female 
MFKB .. 	**MFKB 4 (10/BAG)**	TPU housing, black, PCB pins, 30 VAC/36 VDC, 4 A, 80 °C, 4-pin snap lock	
	MFKB 3L (10/BAG)	TPU housing, black, solder cups, 60 VAC/75 VDC 4 A, 80 °C, 3-pin snap lock, accepts 24 AWG	
	MFKB 4L (10/BAG)	TPU housing, black, solder cups, 30 VAC/36 VDC 4 A, 80 °C, 4-pin snap lock, accepts 24 AWG	

We reserve the right to make technical alterations without prior notice.

3-pin PCB Board Layout



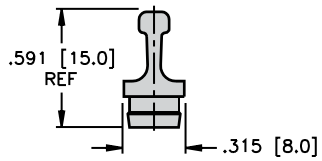
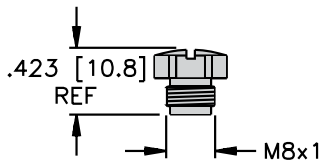
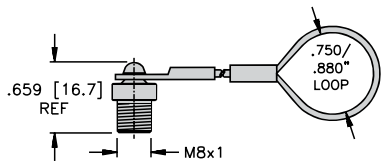
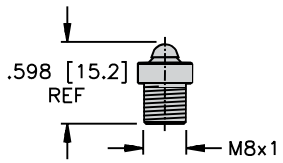
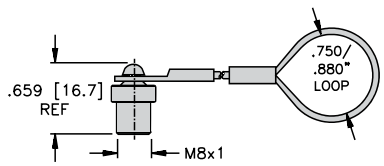
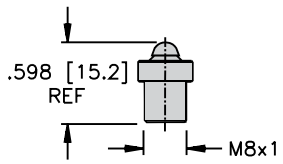
4-pin PCB Board Layout



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

Closure Caps

- **For use with Cordsets, Receptacles and Junction Boxes**

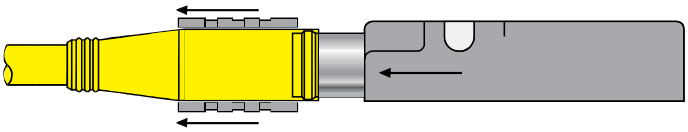
Housing Style	Part Number	Features
	**PSGK-MC (8/BAG)**	Nylon, Mates to female snap lock cordsets, receptacles and junction boxes
	**PSGM-CC (8/BAG)**	Nylon, Mates to female threaded cordsets, receptacles and junction boxes
	**PSG-CC**	Nickel plated brass, Mates to female threaded cordsets, receptacles and junction boxes
	**PSG-MC**	Nickel plated brass, Mates to female threaded cordsets, receptacles and junction boxes
	**PKG-CC**	Nickel plated brass, Mates to male threaded cordsets, receptacles and junction boxes
	**PKG-MC**	Nickel plated brass, Mates to male threaded cordsets, receptacles and junction boxes

We reserve the right to make technical alterations without prior notice.

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

M8 Picofast "Snap Lock" Connector Instructions

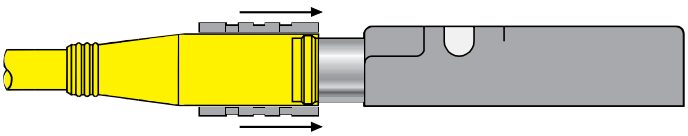
UNLOCK



With Turck's patented Locking Sleeve pulled back, any Picofast sensor slides on without any difficulty.

After sensor is connected, push Locking Sleeve forward to create a watertight connection. It's a snap!

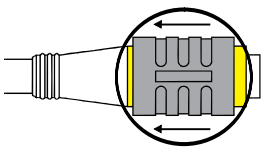
LOCK



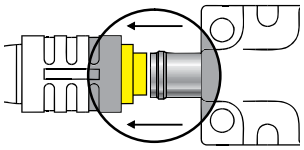
Installation Instructions

To Attach:

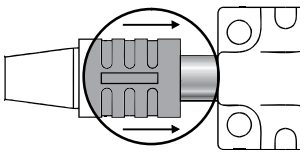
1. Be sure black locking sleeve is pulled back.



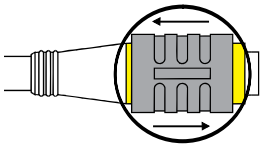
2. Line up pins and push connector onto plug. You will feel a "snap." Do not twist.



3. Push locking sleeve forward on connector until it is flush with the front of the connector.



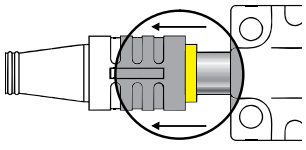
4. If sleeve is difficult to slide on a new connector, "exercise" it a few times. Do not use tools.



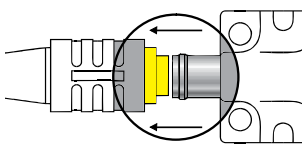
To Detach:

1. Do not twist.

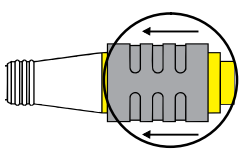
2. Pull locking sleeve back to "unlocked" position.



3. Pull connector straight off.



4. Leave locking sleeve in unlocked position.



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

Notes

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

Notes

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

Part Number Keys	D2
Cordsets	D7
Receptacles	D45
Field Wireables	D83
Adapters	D91
Inserts	D94
Closure Caps	D95

Features

- 4-12 pins utilizing 2-12 wires
- Nickel-brass, stainless steel and nylon materials
- Fully shielded options
- Multiple connector mold bodies
- Quick-connect selection
- LED options
- Multiple receptacle mounting thread options
- Receptacles with leads, solder cups or PCB pins

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

Cordset Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	K		V		4.4	T	-	*	-		-		/S..

M12 Picofast Cordset

R	=	straight
W	=	right angle

Gender

K	=	female connector
S	=	male connector

Plug Body Style

(blank)	=	standard plug body
A	=	armored plug body, 18 AWG
C	=	medium plug body
CN	=	medium plug body, NAMUR wiring
E	=	large plug body
G	=	large, robust plug body
L	=	compact plug body
S	=	shielded to coupling nut

Coupling Nut (Threaded coupling nut only)

(blank)	=	nickel plated brass
V	=	Stainless steel
S	=	Shielded to coupling nut
K	=	nylon

Number of Wires / AWG / Color Codes

4.2	=	2-wire	BN, BU
4.21	=	2-wire	BN, BU, blue jacket, NAMUR
4.22	=	2-wire	BN, BU
4.23	=	2-wire	BN, BU
4	=	3-wire	BN, BU, BK
4.4	=	4-wire	BN, WH, BU, BK
4.41	=	4-wire	BN, WH, BU, BK, blue jacket, NAMUR
4.43	=	4-wire	BN, WH, BU, BK, yellow jacket
4.5	=	5-wire	BN, WH, BU, BK, GY
4.6	=	6-wire	BN, WH, BU, BK, GY, PK
5	=	5-wire	GN, WH, OG, BK, RD, blue jacket, NAMUR
6	=	6-wire	BN, WH, BU, BK, GY, PK
8	=	8-wire	WH, BN, GN, YE, GY, PK, BU, RD
8.6	=	6-wire	WH, GN, YE, GY, BN, BU
8.6	=	8-wire	WH, GN, YE, GY, BN, PK, BU, RD
10	=	10-wire	WH, BN, GN, YE, GY, PK, BU, RD, OG, TN
12	=	12-wire	WH, BN, GN, YE, GY, PK, BU, RD, OG, TN, BK, VT

AWG sizes depend on body style and "/S" variety

Length in Meters

Varieties

(blank)	=	PVC jacket
/S90	=	TPU jacket
/S90-SP	=	TPU coil cord
/S101	=	Flexlife-20, high flex cable
/S529	=	yellow PUR jacket, braided shield, PVC inner jacket
/S600	=	CPE, rubber jacket
/S618	=	foil shield & drain wire, drain not connected
/S622	=	grey PVC jacket, 18 AWG Conductors
/S653	=	foil shield & drain wire, drain connected
/S715	=	yellow jacket
/S824	=	PLTC
/S1092	=	PTFE coated coupling nuts
/S1587	=	TPE, Weldlife®
/S1077	=	silicone tubing
/S3031	=	PUR mold body, PTFE coated coupling nut and silicone tubing
/CS ..	=	consult factory, special
/S ..	=	consult factory, special

Insertion Point of Extension Cable and Second Prefix*

* Female connector listed first, male connector second
Example: RK 4T-4-WS 4T

LED Options

(blank)	=	No LEDs
P7X2	=	2 LEDs with sourcing (PNP) signal and power
P7X3	=	3 LEDs with sourcing (PNP) signal and power
N7X2	=	2 LEDs with sinking (NPN) signal and power

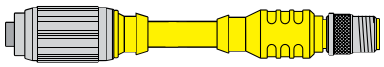
(blank)	=	no barb fitting, L style only
T	=	T barb fitting
A	=	armored cable
Q	=	quick turn

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

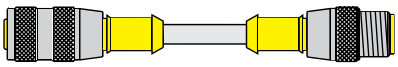
Cordset Part Number key

Extension Examples:

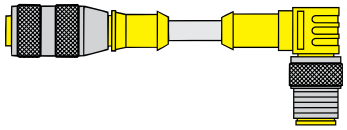
Hybrid connector extensions also available. Consult factory.



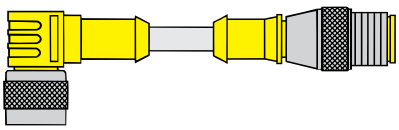
R	K	G		4.4	T	-	2	-	R	S	E		4.4	T		/S600



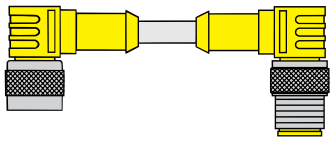
R	K		4.4	T	-	2	-	R	S		4.4	T



R	K		4.4	T	-	2	-	W	S		4.4	T



W	K		4.4	T	-	2	-	R	S		4.4	T



W	K		4.4	T	-	2	-	W	S		4.4	T

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

Reverse Key (B-Code) Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

	W	A	K		W		4.5	T	-	*	-	/S..

M12 Eurofast Cordset
(blank) = straight
W = right angle

Reverse Key

Gender
K = female connector
S = male connector

Coupling Nut Options
(blank) = nickel plated brass
K = nylon
V = stainless steel

Reverse Key

Number of Wires / AWG / Color Codes
4 = 4-pins, 3-wires
4.5 = 5-pins, 5-wires

AWG sizes depend on body styles and "/S" variety

(blank) = no barb fitting, L style only
T = T barb fitting

Length in Meters

Insertion Point of Extension Cable and Second Prefix*
* Female connector listed first, male connector second
Example: WAKW 4.5T-*-WASW 4.5T

Varieties
/S626 = grey PVC jacket, 3x20 AWG
/S101 = Flexlife-20, high flex cable
/S618 = EMI, RFI protection, 5x22 AWG
/S653 = EMI, RFI protection, 4x22 AWG
/S .. = consult factory, special
/CS = consult factory, special

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

Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

F	K	FD			4.4	*		/S..

M12 Eurofast Receptacle

Gender

K = female connector
S = male connector

Housing Style

(blank)	front mount
D	front mount, front locknut
FD	rear mount
FDH	rear mount, separate housing
FDL	rear mount, solder cup
M	front mount, rotating coupling nut
P	back panel mount
FDHO	rear mount, separate housing, optional mounting

Keyway Type

(blank) = standard keyway
W = reverse keyway

Housing Material Keyway Type

(blank) = nickel plated brass
V = stainless steel

Varieties

/S613	= 18 AWG, standard color code
/S621	= all grey leads, 18 AWG
/S627	= 20 AWG, standard color code
/S1505	= 26 AWG, standard color code
/CS	= consult factory, special
/S ..	= consult factory, special

Thread Type

(blank)	= PG 9 threads or other, see specifications
/13.5	= PG 13.5 threads
/14.5	= 1/2-14 NPSM threads
/14.5/NPT	= 1/2-14 NPT threads
/18.25	= 1/4-18 NPT threads
M20	= M20x1 threads
/PG16	= PG 16 threads

Connection Type / Length in Meters

(blank) = no leads, either PCB pin or solder cup
PCB = PCB pins

Number of Wires / AWG / Color Codes

4.2	=	2-wire	BN, BU
4.21	=	2-wire	BN, BU, NAMUR
4.22	=	2-wire	BN, BU
4.23	=	2-wire	BN, BU
4	=	3-wire	BN, BU, BK
4.4	=	4-wire	BN, WH, BU, BK
4.41	=	4-wire	BN, WH, BU, BK, NAMUR
4.43	=	4-wire	BN, WH, BU, BK, yellow jacket
4.5	=	5-wire	BN, WH, BU, BK, GY
4.6	=	6-wire	BN, WH, BU, BK, GY, PK
5	=	5-wire	GN, WH, OG, BK, RD, NAMUR
6	=	6-wire	BN, WH, BU, BK, GY, PK
8	=	8-wire	WH, BN, GN, YE, GY, PK, BU, RD
8.6	=	6-wire	WH, GN, YE, GY, BN, BU
8.8	=	8-wire	WH, GN, YE, GY, BN, PK, BU, RD
10	=	10-wire	WH, BN, GN, YE, GY, PK, BU, RD, OG, TN
12	=	12-wire	WH, BN, GN, YE, GY, PK, BU, RD, OG, TN, BK, VT

AWG sizes depend on body style and "/S" variety

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

Field Wireable Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

BM	S	WS	8	2	5	1	-	P7X2	-	0	/	PG 9	/	LABEL

Field Wireable Type

B	=	standard field wireable
BM	=	metal coupling nut
CM	=	shielded, solder cup
CMB	=	shielded, screw terminal
DB	=	dual cable, splitter

Gender

(blank)	=	female
S	=	male
K	=	female

Keyway Type

(blank)	=	standard
WS	=	reverse key

M12 Eurofast Field Wireable

Housing Style

1	=	straight
2	=	right angle

Number of Pins

4	=	4
5	=	5
6	=	6
8	=	8
12	=	12

Termination

1	=	screw terminal
6	=	IDC
7	=	spring clamp

LED Option

(blank)	=	no indicators
P7X2	=	PNP LEDs

Cable Option

0	=	no cable

Cable Opening

(blank)	=	standard
PG 9	=	PG9 cable opening
0/9	=	PG9 cable opening, for reverse key

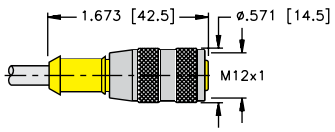
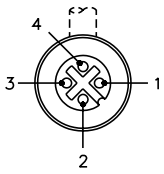
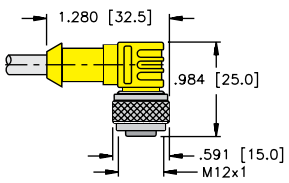
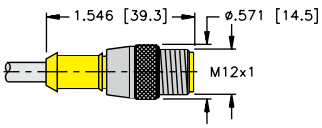
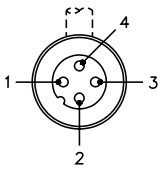
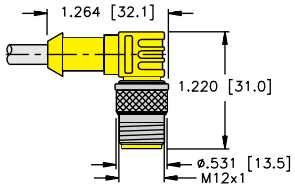
Color Coded Pin Labels

LABEL	=	standard
ASI	=	AS-interface® network
DNET	=	DeviceNet™ network

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

2-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4.2T-*** **WK 4.2T-***	**RS 4.2T-*** **WS 4.2T-***	ITC/PLTC PVC Grey, 2x20 AWG, 105 °C, 5.1 mm OD, Cable #RF50529-*M, Flexlife®	1. N/C 2. N/C 3. BN 4. BU	Female 
	RK 4.2T-*/S90 **WK 4.2T-*/S90**	**RS 4.2T-*/S90** **WS 4.2T-*/S90**	AWM TPU Grey, 2x20 AWG, 90 °C, 4.8 mm OD, Cable #RF50772-*M, Cut/Abrasion Immune		
WK ..** 	**RK 4.2T-*/S748** **WK 4.2T-*/S748**	**RS 4.2T-*/S748** **WS 4.2T-*/S748**	ITC/PLTC PVC Yellow, 2x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50650-*M, Flexlife	1. WH 2. N/C 3. N/C 4. BK	
	RK 4.21T-*/S1511 **WK 4.21T-*/S1511**	**RS 4.21T-*/S1511** **WS 4.21T-*/S1511**	ITC/PLTC PVC Grey, 2x20 AWM PVC, 105 °C, 5.1 mm OD, Cable #RF50529-*M, Flexlife		
RS ..** 	**RK 4.21T-*** **WK 4.21T-***	**RS 4.21T-*** **WS 4.21T-***	ITC/PLTC PVC NAMUR Blue, 2x20 AWG, 105 °C, 5.1 mm OD, Cable #RF51923-*M	1. BN 2. BU 3. N/C 4. N/C	Male 
	RK 4.21T-*/S90 **WK 4.21T-*/S90**	**RS 4.21T-*/S90** **WS 4.21T-*/S90**	AWM TPU NAMUR Blue, 2x20 AWG, 90 °C, 5.1 mm OD, Cable #RF50657-*M, Cut/Abrasion Immune		
WS ..** 	**RK 4.22T-*** **WK 4.22T-***	**RS 4.22T-*** **WS 4.22T-***	ITC/PLTC PVC Grey, 2x20 AWG, 105 °C, 5.1 mm OD, Cable #RF50529-*M, Flexlife	1. BN 2. N/C 3. BU 4. N/C	
	RK 4.23T-* **WK 4.23T-***	**RS 4.23T-*** **WS 4.23T-***		1. BN 2. N/C 3. N/C 4. BU	

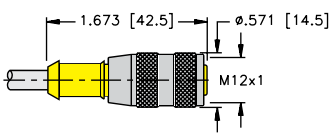
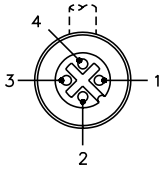
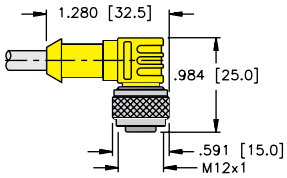
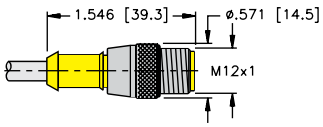
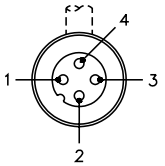
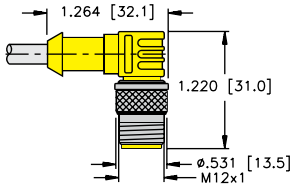
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RK ..."; "RKK ..." indicates nylon and "RKV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4T-*** **WK 4T-***	**RS 4T-*** **WS 4T-***	ITC/PLTC PVC Grey, 3x20 AWG, 105 °C, 5.1 mm OD, Cable #RF52081-*M, Flexlife®	1. BN 2. N/C 3. BU 4. BK	Female 
	RK 4T-*/S90 **WK 4T-*/S90**	**RS 4T-*/S90** **WS 4T-*/S90**	AWM TPU Grey, 3x22 AWG, 90 °C, 4.8 mm OD, Cable #RF52080-*M, Cut/Abrasion Immune		
WK ..** 	**RK 4T-*/S101** **WK 4T-*/S101**	**RS 4T-*/S101** **WS 4T-*/S101**	AWM TPE Grey, 3x22 AWG, 105 °C, 4.8 mm OD, Cable #RF52085-*M, Flexlife-20, High Flex Over 20 Million Cycles		
	RK 4T-*/S529 **WK 4T-*/S529**	**RS 4T-*/S529** **WS 4T-*/S529**	TPU/Heavy Braid Double Jacket Yellow, 3x22 AWG, 90 °C, 4.8 mm OD, Cable #RF52084-*M, Cut/Abrasion Immune Braided Mechanical Shield		
RS ..** 	**RK 4T-*/S824** **WK 4T-*/S824**	**RS 4T-*/S824** **WS 4T-*/S824**	ITC/PLTC AWM PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52081-*M, Tray Rated, Flexlife		
	RK 4T-*/S715 **WK 4T-*/S715**	**RS 4T-*/S715** **WS 4T-*/S715**	ITC/PLTC PVC Yellow, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52087-*M, Flexlife		Male 
WS ..** 	**RK 4T-*/S760** **WK 4T-*/S760**	**RS 4T-*/S760** **WS 4T-*/S760**	ITC/PLTC PVC Black, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52083-*M, Flexlife		
	RK 4T-*/S618 **WK 4T-*/S618**	**RS 4T-*/S618** **WS 4T-*/S618**	ITC/PLTC PVC Grey, 3x22 AWG, Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF52082-*M, RFI/EMI Shielding, tray rated		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RK .."; "RKK .." indicates nylon and "RKV .." indicates stainless steel.

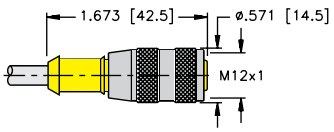
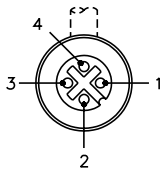
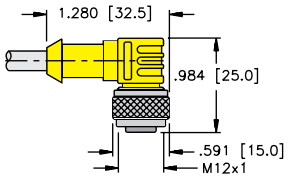
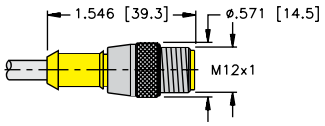
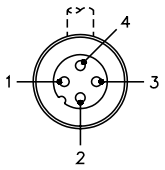
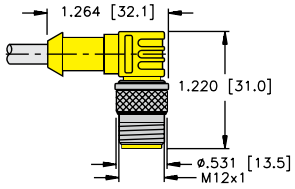
We reserve the right to make technical alterations without prior notice.

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

TURCK

4-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4.41T-*** **WK 4.41T-***	**RS 4.41T-*** **WS 4.41T-***	ITC/PLTC PVC NAMUR Blue, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50598-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	RK 4.41T-*/S529 **WK 4.41T-*/S529**	**RS 4.41T-*/S529** **WS 4.41T-*/S529**	TPU/Heavy Braid Double Jacket Yellow, 4x20 AWG, 90 °C, 5.7 mm OD, Cable #RF50526-*M, Cut/Abrasion Immune Braided Mechanical Shield		
	RK 4.43T-* **WK 4.43T-***	**RS 4.43T-*** **WS 4.43T-***	ITC/PLTC PVC Yellow, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50530-*M, Flexlife		
WK ..** 	**RK 4.43T-*/S90** **WK 4.43T-*/S90**	**RS 4.43T-*/S90** **WS 4.43T-*/S90**	AWM TPU Yellow, 4x22 AWG, 90 °C, 5.1 mm OD, Cable #RF50613-*M, Cut/Abrasion Immune		
	RK 4.4T-* **WK 4.4T-***	**RS 4.4T-*** **WS 4.4T-***	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, Flexlife		
	RK 4.4T-*/S90 **WK 4.4T-*/S90**	**RS 4.4T-*/S90** **WS 4.4T-*/S90**	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, Cable #RF50532-*M, Cut/Abrasion Immune		
RS ..** 	**RK 4.4T-*/S101** **WK 4.4T-*/S101**	**RS 4.4T-*/S101** **WS 4.4T-*/S101**	AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, Flexlife-20, High Flex Over 20 Million Cycles		Male 
	RK 4.4T-*/S824 **WK 4.4T-*/S824**	**RS 4.4T-*/S824** **WS 4.4T-*/S824**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50698-*M, Tray Rated		
WS ..** 	**RK 4.4T-*/S618** **WK 4.4T-*/S618**	**RS 4.4T-*/S618** **WS 4.4T-*/S618**	ITC/PLTC PVC Grey, 4x22 AWG Foil/Drain, 105 °C, 5.3 mm OD, Cable #RF50577-*M, RFI/EMI Shielding		
	RK 4.4T-*/S618/S824 **WK 4.4T-*/S618/S824**	**RS 4.4T-*/S618/S824** **WS 4.4T-*/S618/S824**	ITC/PLTC PVC Grey, 4x22 AWG Foil/Drain, 105 °C, 5.3 mm OD, Cable #RF50777-*M, RFI/EMI Shielding, Tray Rated		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

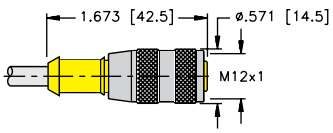
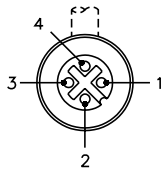
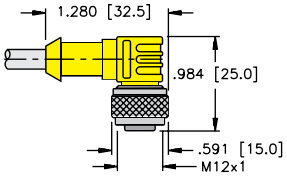
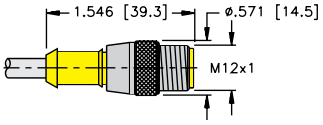
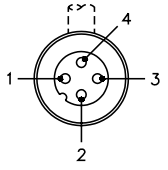
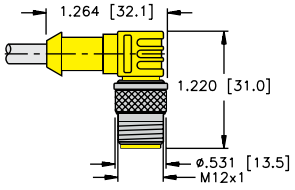
** Standard coupling nut material is nickel plated brass "RK ..."; "RKK ..." indicates nylon and "RKV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4.4T-*/S653** **WK 4.4T-*/S653**	**RS 4.4T-*/S653** **WS 4.4T-*/S653**	ITC/PLTC PVC Grey, 3x22 AWG Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF52082-*M, RFI/EMI Shielding, Tray Rated	1. BN 2. Drain 3. BU 4. BK	Female 
WK ..** 	**RK 4.4T-*/S760** **WK 4.4T-*/S760**	**RS 4.4T-*/S760** **WS 4.4T-*/S760**	ITC/PLTC PVC Black, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50983-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK	
	RK 4.4T-*/S90/S670 **WK 4.4T-*/S90/S670**	**RS 4.4T-*/S90/S670** **WS 4.4T-*/S90/S670**	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, Cable #RF50586-*M, Cut/ Abrasion Immune		
RS ..** 	**RK 4.4T-*/S1587** **WK 4.4T-*/S1587**	**RS 4.4T-*/S1587** **WS 4.4T-*/S1587**	ITC/PLTC TPE Yellow, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF51132-*M, Weldlife, Weld Flash Immune		Male 
WS ..** 	**RK 4.4T-*/S1666** **WK 4.4T-*/S1666**	**RS 4.4T-*/S1666** **WS 4.4T-*/S1666**	AWM TPU Grey, 2: 2x22 AWG, STP Foil/Drain, 90 °C, 6.2 mm OD, Cable #RF51069-*M, Cut/ Abrasion Immune, Shielded Twisted Pair for Communication		

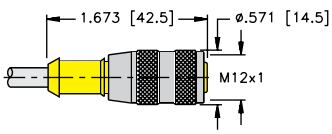
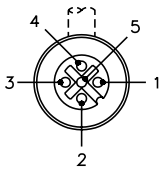
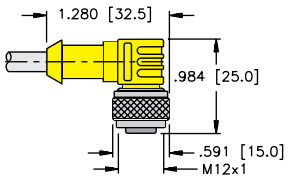
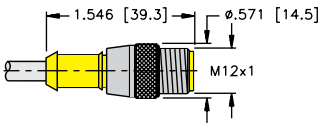
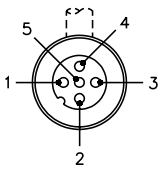
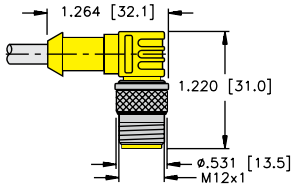
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RK ..."; "RKK ..." indicates nylon and "RKV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

5-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4.5T-*** **WK 4.5T-***	**RS 4.5T-*** **WS 4.5T-***	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50543-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY	Female 
	RK 4.5T-*/S90 **WK 4.5T-*/S90**	**RS 4.5T-*/S90** **WS 4.5T-*/S90**	AWM TPU Grey, 5x22 AWG, 90 °C, 5.3 mm OD, Cable #RF50649-*M, Cut/ Abrasion Immune		
WK ..** 	**RK 4.5T-*/S101** **WK 4.5T-*/S101**	**RS 4.5T-*/S101** **WS 4.5T-*/S101**	AWM TPE Grey, 5x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50909-*M, Flexlife-20, High Flex Over 20 Million Cycles		
	RK 4.5T-*/S618 **WK 4.5T-*/S618**	**RS 4.5T-*/S618** **WS 4.5T-*/S618**	ITC/PLTC PVC Grey, 5x22 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50609-*M, RFI/EMI Protection		
RS ..** 	**RS 4.5T-*/S715** **WS 4.5T-*/S715**	**RS 4.5T-*/S715** **WS 4.5T-*/S715**	ITC/PLTC PVC Yellow, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50684-*M, Flexlife		Male 
WS ..** 	**RK 4.5T-*/S653** **WK 4.5T-*/S653**	**RS 4.5T-*/S653** **WS 4.5T-*/S653**	ITC/PLTC PVC Grey, 4x22 AWG Foil/Drain, 105 °C, 5.3 mm OD, Cable #RF50577-*M, RFI/EMI Shielding	1. BN 2. WH 3. BU 4. BK 5. Drain	
	RK 4.5T-*/S1554 **WK 4.5T-*/S1554**	**RS 4.5T-*/S1554** **WS 4.5T-*/S1554**	ITC/PLTC PVC Black, 5x22 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50794-*M, RFI/EMI Shielding	1. BN 2. WH 3. BU 4. BK 5. GY	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

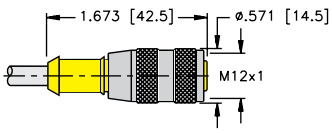
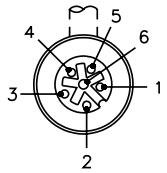
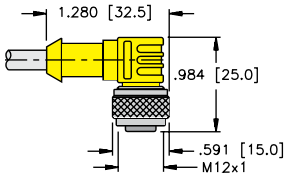
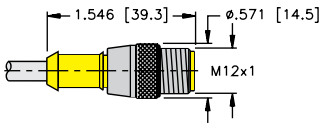
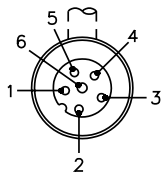
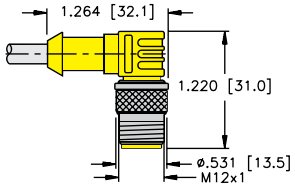
** Standard coupling nut material is nickel plated brass "RK ..."; "RKK ..." indicates nylon and "RKV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

6-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 4.6T-*** **WK 4.6T-***	**RS 4.6T-*** **WS 4.6T-***	AWM PVC Grey, 6x24 AWG, 105 °C, 5.1 mm OD, Cable #RF50608-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
WK ..** 	**RK 4.6T-*/S90** **WK 4.6T-*/S90**	**RS 4.6T-*/S90** **WS 4.6T-*/S90**	AWM TPU Grey, 6x24 AWG, 90 °C, 5.1 mm OD, Cable #RF50646-*M, Cut/ Abrasion Immune		
	RK 4.6T-*/S90/S760 **WK 4.6T-*/S90/S760**	**RS 4.6T-*/S90/S760** **WS 4.6T-*/S90/S760**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, Cable #RF50728-*M, Cut/ Abrasion Immune		
RS ..** 	**RK 4.6T-*/S618** **WK 4.6T-*/S618**	**RS 4.6T-*/S618** **WS 4.6T-*/S618**	AWM PVC Grey, 6x24 AWG Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF50610-*M, RFI/EMI Shielding		Male 
WS ..** 	**RK 4.6T-*/S653** **WK 4.6T-*/S653**	**RS 4.6T-*/S653** **WS 4.6T-*/S653**	ITC/PLTC PVC Grey, 5x22 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50609-*M, RFI/EMI Shielding	1. BN 2. WH 3. BU 4. BK 5. GY 6. Drain	

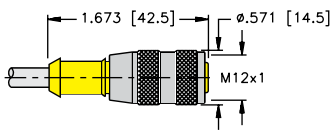
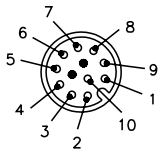
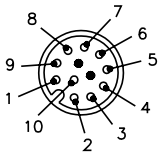
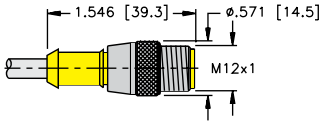
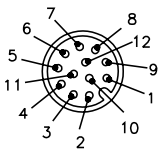
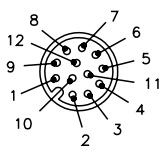
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RK .."; "RKK .." indicates nylon and "RKV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

10 and 12-Wire Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RK ..** 	**RK 10T-***	**RS 10T-***	AWM PVC Grey, 10x24 AWG, 105 °C, 6.2 mm OD, Cable #RF51004-*M, Flexlife®	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	Female 
	RK 10T-*/S90	**RS 10T-*/S90**	AWM TPU Grey, 10x24 AWG, 90 °C, 6.2 mm OD, Cable #RF51005-*M, Cut/Abrasion Immune		Male 
RS ..** 	**RK 12T-***	**RS 12T-***	AWM PVC Grey, 12x24 AWG, 105 °C, 6.3 mm OD, Cable #RF50991-*M, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	Female 
	RK 12T-*/S90	**RS 12T-*/S90**	AWM TPU Grey, 12x24 AWG, 90 °C, 6 mm OD, Cable #RF50990-*M, Cut/Abrasion Immune		Male 

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

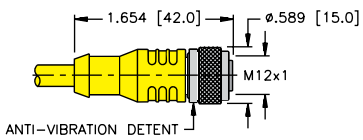
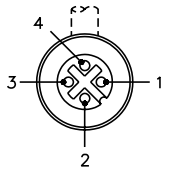
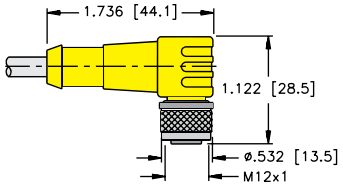
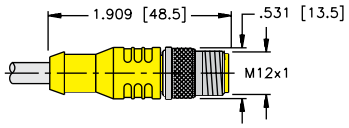
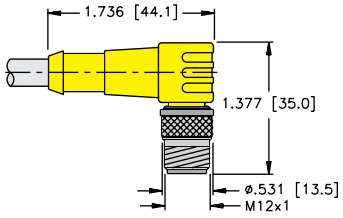
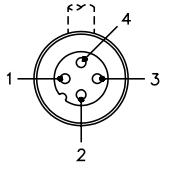
** Standard coupling nut material is nickel plated brass "RK .."; "RKK .." indicates nylon and "RKV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 4.2T-*** **WKC 4.2T-***	**RSC 4.2T-*** **WSC 4.2T-***	ITC/PLTC PVC Yellow, 2x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50511-*M, Flexlife®	1. N/C 2. N/C 3. BN 4. BU	Female 
WKC ..** 	**RKC 4.2T-*/CS10191** **WKC 4.2T-*/CS10191**	**RSC 4.2T-*/CS10191** **WSC 4.2T-*/CS10191**	ITC/PLTC PVC NAMUR Blue, 2x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50843-*M, Flexlife, Black Plug Body		
RSC ..** 					
WSC ..** 	**RKC 4T-*** **WKC 4T-***	**RSC 4T-*** **WSC 4T-***	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50513-*M, Flexlife	1. BN 2. N/C 3. BU 4. BK	Male 

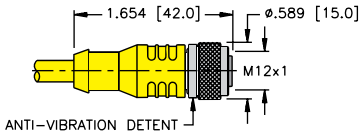
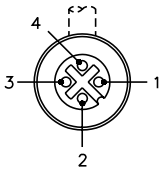
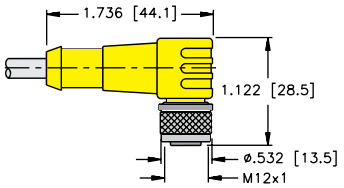
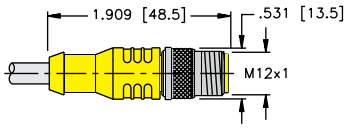
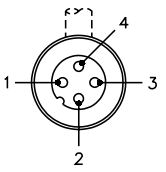
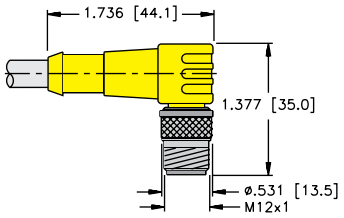
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 4.4T-*** **WKC 4.4T-***	**RSC 4.4T-*** **WSC 4.4T-***	ITC/PLTC PVC Yellow, 4x18 AWG, 105 °C, 6.7 mm OD, Cable #RF50579-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	RKC 4.4T-*/S90 **WKC 4.4T-*/S90**	**RSC 4.4T-*/S90** **WSC 4.4T-*/S90**	AWM TPU Yellow, 4x18 AWG, 90 °C, 7.2 mm OD, Cable #RF50544-*M, Cut/Abrasion Immune		
WKC ..** 	**RKC 4.4T-*/S622** **WKC 4.4T-*/S622**	**RSC 4.4T-*/S622** **WSC 4.4T-*/S622**	ITC/PLTC PVC Grey, 4x18 AWG, 105 °C, 6.7 mm OD, Cable #RF50580-*M, Flexlife		
	RKC 4.4T-*/S824 **WKC 4.4T-*/S824**	**RSC 4.4T-*/S824** **WSC 4.4T-*/S824**	ITC/PLTC PVC Grey, 4x18 AWG, 105 °C, 6.7 mm OD, Cable #RF50579-*M, Tray Rated, Flexlife		
RSC ..** 	**RKC 4.4T-*/S1587** **WKC 4.4T-*/S1587**	**RSC 4.4T-*/S1587** **WSC 4.4T-*/S1587**	ITC/PLTC TPE Yellow, 4x18 AWG, 105 °C, 6.9 mm OD, Cable #RF50956-*M, Weld Flash Immune, Weldlife		
	RKC 4.4T-*/S101/S849 **WKC 4.4T-*/S101/S849**	**RSC 4.4T-*/S101/S849** **WSC 4.4T-*/S101/S849**	AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, Flexlife-20, High Flex Over 20 Million Cycles		Male 
WSC ..** 	**RKC 4.4T-*/S101** **WKC 4.4T-*/S101**	**RSC 4.4T-*/S101** **WSC 4.4T-*/S101**	AWM TPE Yellow, 4x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50968-*M, Flexlife-20, High Flex Over 20 Million Cycles		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

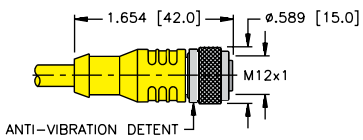
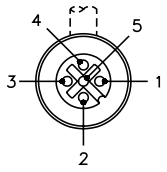
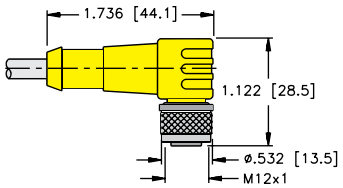
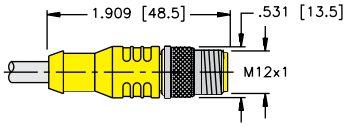
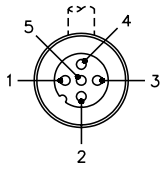
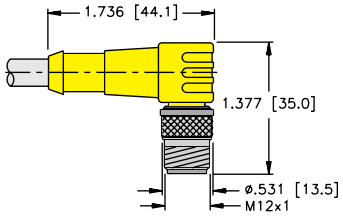
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

5-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 4.5T-*/S653** **WKC 4.5T-*/S653**	**RSC 4.5T-*/S653** **WSC 4.5T-*/S653**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, Foil/ Drain, 5.3 mm OD, Cable #RF50577-*M, RFI/EMI Shielding, Tray Rated	1. BN 2. WH 3. BU 4. BK 5. Drain	Female 
WKC ..** 	**RKC 4.5T-*/S1538** **WKC 4.5T-*/S1538**	**RSC 4.5T-*/S1538** **WSC 4.5T-*/S1538**	ITC/PLTC PVC Grey, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50630-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GN/YE	
	RKC 4.5T-*/S715/S849 **WKC 4.5T-*/S715/S849**	**RSC 4.5T-*/S715/S849** **WSC 4.5T-*/S715/S849**	ITC/PLTC PVC Yellow, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50684-*M, Flexlife	1. BN 2. WH 3. BU 4. BK 5. GY	
RSC ..** 	**RKC 4.5T-*/CS10288** **WKC 4.5T-*/CS10288**	**RSC 4.5T-*/CS10288** **WSC 4.5T-*/CS10288**	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50549-*M, Flexlife	1. BN 2. WH 3. BU 4. BK 5. GN/YE	
	RKC 4.5T-*/S1587 **WKC 4.5T-*/S1587**	**RSC 4.5T-*/S1587** **WSC 4.5T-*/S1587**	ITC/PLTC TPE Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF51720-*M, Weldlife, Weld Flash Immune	1. BN 2. WH 3. BU 4. BK 5. GY	Male 
WSC ..** 	**RKCN 5T-*** **WKCN 5T-***	**RSCN 5T-*** **WSCN 5T-***	ITC/PLTC PVC NAMUR Blue, 5x22 AWG, 105 °C, 6.2 mm OD, Cable #RF50767-*M, Flexlife, for VBN 40-H1141 Multibox®	1. GN 2. WH 3. OG 4. BK 5. RD	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV ..." indicates stainless steel.

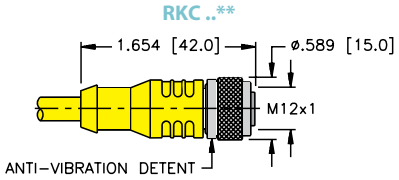
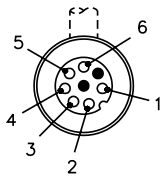
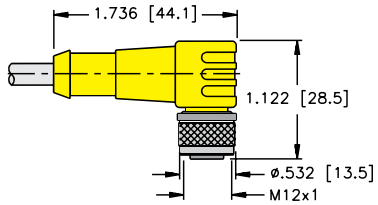
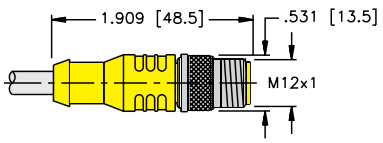
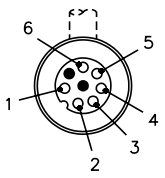
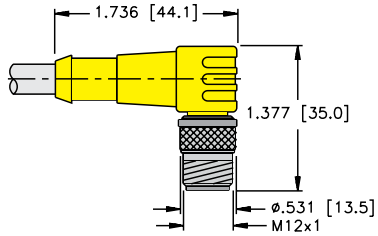
We reserve the right to make technical alterations without prior notice.

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

TURCK

6-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 6T-* WKC 6T-***	**RSC 6T-* WSC 6T-***	AWM PVC Grey, 6x24 AWG, 105 °C, 5.1 mm OD, Cable #RF50608-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
	RKC 6T-*/S90 WKC 6T-*/S90	**RSC 6T-*/S90 WSC 6T-*/S90**	AWM TPU Grey, 6x24 AWG, 90 °C, 5.1 mm OD, Cable #RF50646-*M, Cut/Abrasion Immune		
	RKC 6T-*/S101 WKC 6T-*/S101	**RSC 6T-*/S101 WSC 6T-*/S101**	AWM TPE Grey, 6x24 AWG, 105 °C, 5.1 mm OD, Cable #RF50910-*M, Flexlife-20, high flex over 20 million cycles		
WKC ..** 	**RKC 6T-*/S90/S760 WKC 6T-*/S90/S760**	**RSC 6T-*/S90/S760 WSC 6T-*/S90/S760**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, Cable #RF50728-*M, Cut/Abrasion Immune		
	RKC 6T-*/S529 WKC 6T-*/S529	**RSC 6T-*/S529 WSC 6T-*/S529**	AWM TPU Yellow, 6x24 AWG, 90 °C, 6.2 mm OD, Cable #RF51120-*M, Cut/Abrasion immune, braided mechanical shield		
RSC ..** 	**RKC 6T-*/S849/S1052 WKC 6T-*/S849/S1052**	**RSC 6T-*/S849/S1052 WSC 6T-*/S849/S1052**	ITC/PLTC PVC Grey, 6x22 AWG, 105 °C, 6.2 mm OD, Cable #RF51284-*M, Flexlife, 22 AWG conductors, grey cable		
	RKC 6T-*/S618 WKC 6T-*/S618	**RSC 6T-*/S618 WSC 6T-*/S618**	AWM PVC Grey, 6x24 AWG Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF50610-*M, RFI/EMI Shielding		Male 
WSC ..** 	**RKC 6T-*/S653 WKC 6T-*/S653**	**RSC 6T-*/S653 WSC 6T-*/S653**	ITC/PLTC PVC Grey, 5x22 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50609-*M, RFI/EMI Shielding	1. BN 2. WH 3. BU 4. BK 5. GY 6. Drain	
	RKC 6T-*S90/CS10476 WKC 6T-*S90/CS10476	**RSC 6T-*/S90/CS10476 WSC 6T-*/S90/CS10476**	AWM TPU NAMUR Blue, 5x24 AWG Foil/Drain, 90 °C, 5.7 mm OD, Cable #RF50928-*M, Cut/Abrasion Immune	1. OR 2. RD 3. YE 4. BK 5. BU 6. Drain	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

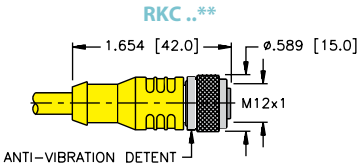
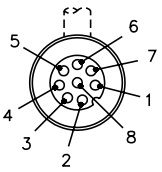
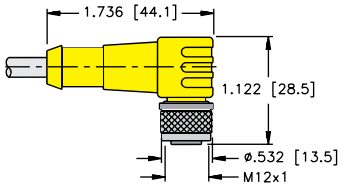
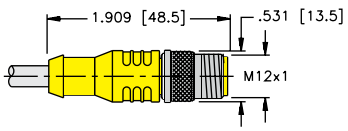
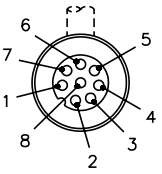
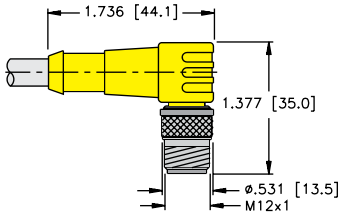
** Standard coupling nut material is nickel plated brass "RKC .."; "RKCV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 8.6T-* WKC 8.6T-***	**RSC 8.6T-* WSC 8.6T-***	AWM PVC Black, 6x24 AWG Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF50845-*M, Flexlife®, for Picofast® 4-port Multibox®	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	Female 
WKC ..** 	**RKC 8T-* WKC 8T-***	**RSC 8T-* WSC 8T-***	AWM PVC Grey, 8x24 AWG, 105 °C, 5.7 mm OD, Cable #RF50753-*M, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	
	RKC 8T-*/S715 WKC 8T-*/S715	**RSC 8T-*/S715 WSC 8T-*/S715**	AWM PVC Yellow, 8x24 AWG, 105 °C, 5.7 mm OD, Cable #RF50884-*M, Flexlife		
	RKC 8T-*/S90 WKC 8T-*/S90	**RSC 8T-*/S90 WSC 8T-*/S90**	AWM TPU Grey, 8x24 AWG, 90 °C, 5.7 mm OD, Cable #RF50984-*M, Cut/Abrasion Immune		
	RKC 8T-*/S101 WKC 8T-*/S101	**RSC 8T-*/S101 WSC 8T-*/S101**	AWM TPE Grey, 8x24 AWG, 105 °C, 6.2 mm OD, Cable #RF50911-*M, Flexlife-20, High Flex Over 20 Million Cycles		
RSC ..** 	**RKC 8T-*/S618 WKC 8T-*/S618**	**RSC 8T-*/S618 WSC 8T-*/S618**	AWM PVC Grey, 8x24 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50815-*M, RFI/EMI Shielding		
	RKC 8T-*/S1555 WKC 8T-*/S1555	**RSC 8T-*/S1555 WSC 8T-*/S1555**	AWM PVC Black, 7x24 AWG Foil/Drain, 105 °C, 5.1 mm OD, Cable #RF50761-*M, RFI/EMI Shielding	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. Drain	Male 
WSC ..** 	**RKC 8.8T-* WKC 8.8T-***	**RSC 8.8T-* WSC 8.8T-***	AWM PVC Grey, 8x24 AWG, 105 °C, 5.7 mm OD, Cable #RF50753-*M, Flexlife	1. WH 2. GN 3. YE 4. GY 5. BN 6. PK 7. BU 8. RD	

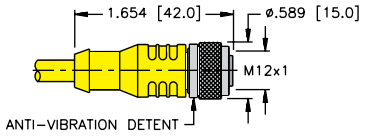
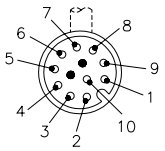
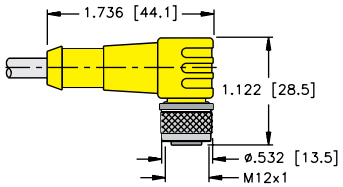
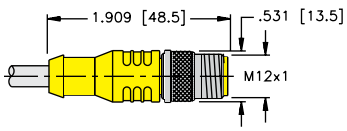
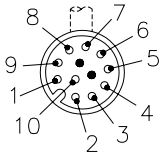
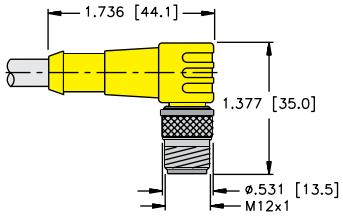
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

10-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 10T-*** **WKC 10T-***	**RSC 10T-*** **WSC 10T-***	AWM PVC Grey, 10x24 AWG, 105 °C, 6.2 mm OD, Cable #RF51004-*M, Flexlife®	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	Female 
WKC ..** 	**RKC 10T-*/S90** **WKC 10T-*/S90**	**RSC 10T-*/S90** **WSC 10T-*/S90**	AWM TPU Grey, 10x24 AWG, 90 °C, 6.2 mm OD Cable #RF51005-*M, Cut/Abrasion Immune		
RSC ..** 	**RKC 10T-*/S101** **WKC 10T-*/S101**	**RSC 10T-*/S101** **WSC 10T-*/S101**	AWM TPE Black, 10x24 AWG, 105 °C, 7.0 mm OD, Cable #RF51077-*M, Flexlife-20, High Flex Over 20 Million Cycles		Male 
WSC ..** 	**RKC 10T-*/S618** **WKC 10T-*/S618**	**RSC 10T-*/S618** **WSC 10T-*/S618**	AWM PVC Black, 10x24 AWG Foil/Drain, 105 °C, 6.6 mm OD, Cable #RF51076-*M, RFI/EMI Shielding		

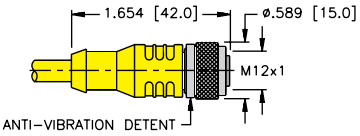
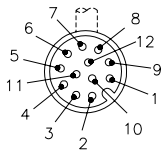
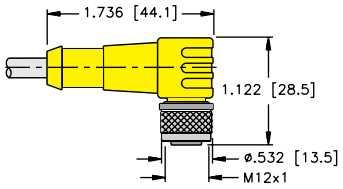
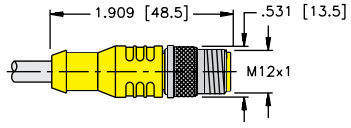
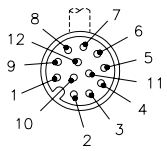
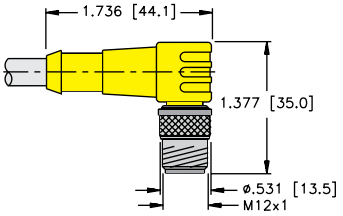
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

12-Wire Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC ..** 	**RKC 12T-*** **WKC 12T-***	**RSC 12T-*** **WSC 12T-***	AWM PVC Grey, 12x24 AWG, 105 °C, 6.3 mm OD, Cable #RF50991-*M, Flexlife®	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	Female 
WKC ..** 	**RKC 12T-*/S90** **WKC 12T-*/S90**	**RSC 12T-*/S90** **WSC 12T-*/S90**	AWM TPU Grey, 12x24 AWG, 90 °C, 6.0 mm OD, Cable #RF50990-*M, Cut/Abrasion Immune		
RSC ..** 	**RKC 12T-*/S90** **WKC 12T-*/S90**	**RSC 12T-*/S101** **WSC 12T-*/S101**	AWM TPE Black, 12x24 AWG, 105 °C, 7.6 mm OD, Cable #RF50943-*M, Flexlife-20, High Flex Over 20 Million Cycles		Male 
WSC ..** 	**RKC 12T-*/S618** **WKC 12T-*/S618**	**RSC 12T-*/S618** **WSC 12T-*/S618**	AWM PVC Black, 12x24 AWG Foil/Drain, 105 °C, 6.7 mm OD, Cable #RF50755-*M, RFI/EMI Shielding		

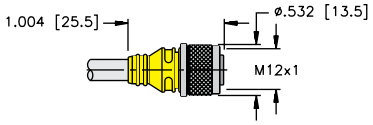
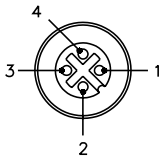
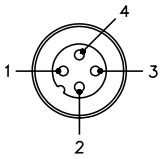
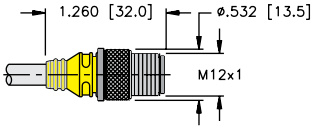
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKC ..."; "RKCV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Cordsets, "L" Style Compact Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKL ..** 	**RKL 4-***	**RSL 4-***	ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52081-*M, Flexlife®	1. BN 2. N/C 3. BU 4. BK	Female 
	RKL 4-*/S90	**RSL 4-*/S90**	AWM TPU Grey, 3x22 AWG, 90 °C, 4.8 mm OD, Cable #RF52080-*M, Cut/ Abrasion Immune		
	RKL 4.4-*	**RSL 4.4-***	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, Flexlife	1. BN 2. WH 3. BU 4. BK	Male 
RSL ..** 	**RKL 4.4-*/S90**	**RSL 4.4-*/S90**	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, Cable #RF50532-*M, Cut/ Abrasion Immune		
	RKL 4.4-*/S715	**RSL 4.4-*/S715**	ITC/PLTC PVC Yellow, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50530-*M, Flexlife		

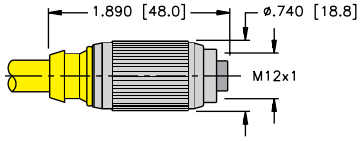
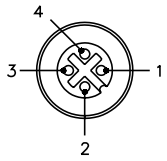
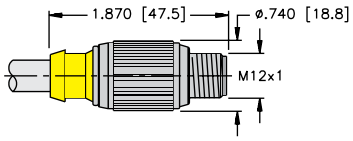
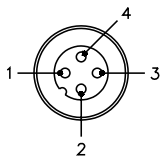
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKL ..".

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Cordsets, "G" Style Large Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKG ..** 	**RKG 4T-***	**RSG 4T-***	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50513-*M, Flexlife®, tray rated	1. BN 2. N/C 3. BU 4. BK	Female 
	RKG 4T-*/S600	**RSG 4T-*/S600**	SJOOW, CPE Yellow, 3x18 AWG, 105 °C, 8.0 mm OD, Cable #RF50654-*M, Weld Flash Immune, Flame Resistance		
	RKG 4.4T-*	**RSG 4.4T-***	ITC/PLTC PVC Yellow, 4x18 AWG, 105 °C, 6.7 mm OD, Cable #RF50579-*M, Flexlife	1. BN 2. WH 3. BU 4. BK	
	RKG 4.4T-*/S90	**RSG 4.4T-*/S90**	AWM TPU Yellow, 4x18 AWG, 90 °C, 7.2 mm OD, Cable #RF50544-*M, Cut/ Abrasion Immune		
	RKG 4.4T-*/S101/S849	**RSG 4.4T-*/S101/S849**	AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, Flexlife-20, High Flex - Over 20 Million Cycles		
	RKG 4.4T-*/S101	**RSG 4.4T-*/S101**	AWM TPE Yellow, 4x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50968-*M, Flexlife-20, High Flex - Over 20 Million Cycles		
RSG ..** 	**RKG 4.4T-*/S529**	**RSG 4.4T-*/S529**	TPU/Heavy Braid Double Jacket Yellow, 4x20 AWG, 90 °C, 5.7 mm OD, Cable #RF50526-*M, Cut/ Abrasion Immune, Braided Mechanical Shield		Male 
	RKG 4.4T-*/S1587	**RSG 4.4T-*/S1587**	ITC/PLTC TPE Yellow, 4x18 AWG, 105 °C, 6.9 mm OD, Cable #RF50956-*M, Weldlife, Weld Flash Immune		

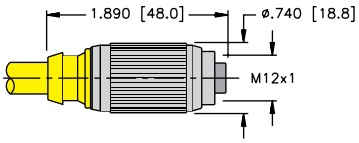
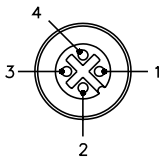
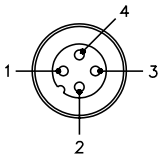
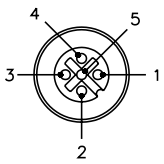
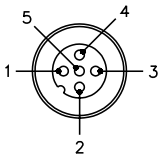
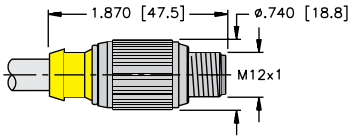
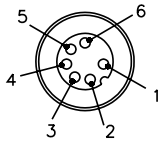
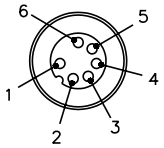
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKG ..."; "RKGV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Cordsets, "G" Style Large Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2 A (6 pole)

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKG ..** 	**RKG 4.4T-*/S600**	**RSG 4.4T-*/S600**	SJOOW, CPE Yellow, 4x18 AWG, 105 °C, 8.5 mm OD, Cable #RF50644-*M, Weld Flash Immune Flame Resistance	1. BN 2. WH 3. BU 4. BK	Female  Male 
	RKG 4.5T-*	**RSG 4.5T-***	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50543-*M, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
	RKG 4.5T-*/S90/S715	**RSG 4.5T-*/S90/S715**	AWM TPU Yellow, 5x18 AWG, 90 °C, 7.2 mm OD, Cable #RF50751-*M, Cut/Abrasion Immune	1. BN 2. WH 3. BU 4. BK 5. GN/YE	
	RKG 4.5T-*/S600	**RSG 4.5T-*/S600**	SJOOW CPE Yellow, 5x18 AWG, 105 °C, 9.4 mm OD, Cable #RF50937-*M, Weld Flash Immune, Flame Resistance	1. BN 2. WH 3. BU 4. BK 5. GY	
RSG ..** 	**RKG 6T-***	**RSG 6T-***	AWM PVC Grey, 6x24 AWG, 105 °C, 5.1 mm OD, Cable #RF50608-*M, Flexlife	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 
	RKG 6T-*/S90	**RSG 6T-*/S90**	AWM TPU Grey, 6x24 AWG, 90 °C, 5.1 mm OD, Cable #RF50646-*M, Cut/Abrasion Immune		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKG ..."; "RKGV .." indicates stainless steel.

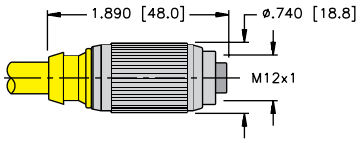
We reserve the right to make technical alterations without prior notice.

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

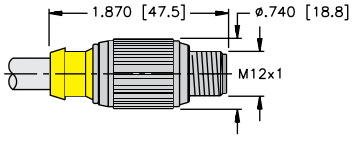
8, 10 and 12-Wire Cordsets, "G" Style Large Plug Body

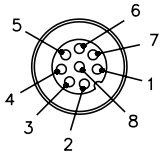
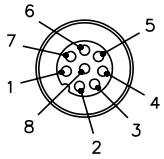
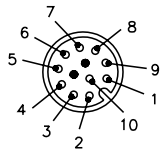
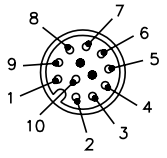
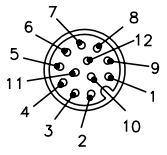
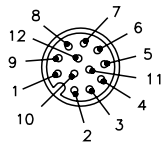
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

RKG ..**



RSG ..**



Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKG ..** / RSG ..**	RKG 8T-*	RSG 8T-*	AWM PVC Grey, 8x24 AWG, 105 °C, 5.7 mm OD, Cable #RF50753-*M, Flexlife®, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	Female  Male 
	RKG 8T-*/S90	RSG 8T-*/S90	AWM TPU Grey, 8x24 AWG, 90 °C, 5.7 mm OD, Cable #RF50984-*M, Cut/ Abrasion Immune, CSA Approved		
	RKG 10T-*	RSG 10T-*	AWM PVC Grey, 10x24 AWG, 105 °C, 6.2 mm OD, Cable #RF51004-*M, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	Female  Male 
	RKG 10T-*/S618	RSG 10T-*/S618	AWM PVC Black, 10x24 AWG, Foil/Drain, 105 °C, 6.6 mm OD, Cable #RF51076-*M, RFI/EMI shielding		
	RKG 12T-*	RSG 12T-*	AWM PVC Grey, 12x24 AWG, 105 °C, 6.3 mm OD, Cable #RF50991-*M, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	Female  Male 
	RKG 12T-*/S618	RSG 12T-*/S618	AWM PVC Black, 12x24 AWG, Foil/Drain, 105 °C, 6.7 mm OD, Cable #RF50755-*M, RFI/EMI shielding		

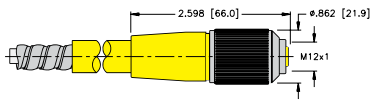
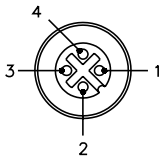
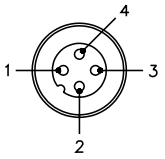
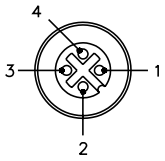
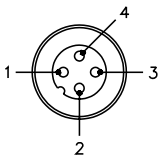
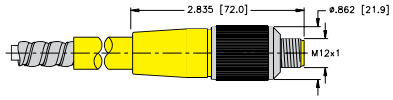
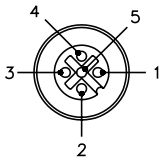
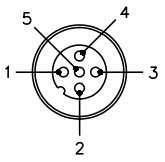
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKG ..."; "RKGV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3, 4 and 5-Wire Cordsets, "A" Style Extreme Duty Armored Plug Body - 18 AWG

- **Shield to Coupling Nut**
- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 V, 4 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKA ..** 	**RKA 4A-***	**RSA 4A-***	Interlock AI Armor, ITC-ER/ PLTC-ER, PVC Yellow, 3x18 AWG, 105 °C, 14.9 mm OD, Cable #RF51040-*M, Extreme Duty Armored Cable, Tray Rated	1. BK 2. N/C 3. WH 4. GN	Female  Male 
	RKA 4.4A-*	**RSA 4.4A-***	Interlock AI Armor, ITC-ER/ PLTC-ER, PVC Yellow, 4x18 AWG, 105 °C, 15.2 mm OD, Cable #RF51041-*M, Extreme Duty Armored Cable, Tray Rated	1. BK 2. WH 3. RD 4. GN	Female  Male 
RSA ..** 	**RKA 4.5A-***	**RSA 4.5A-***	Interlock AI Armor, MC PVC Yellow, 5x18 AWG, 90 °C, 14.9 mm OD, Cable #RF51042-*M, Extreme Duty Armored Cable	1. BK 2. WH 3. RD 4. GN 5. OG	Female  Male 

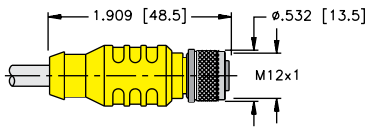
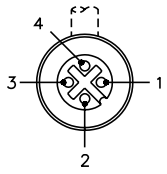
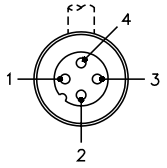
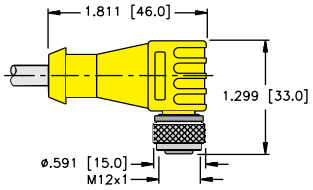
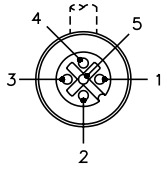
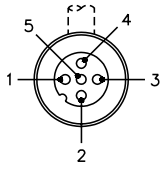
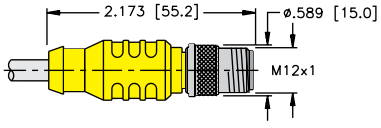
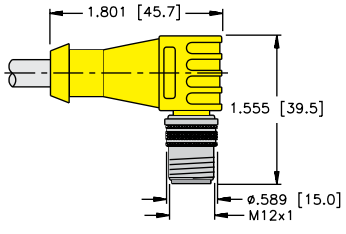
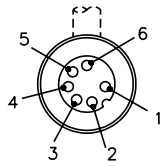
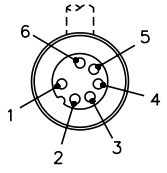
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKA ..."; "RKAV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Cordsets, "S" Style, Shielded

- Shield to Coupling Nut
- IEC IP 67 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2 A (6 pole)

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKS ..** 	**RKS 4.4T-*** **WKS 4.4T-***	**RSS 4.4T-*** **WSS 4.4T-***	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 6.2 mm OD, Cable #RF50729-*M, RFI/EMI shielding, Tray rated	1. BN 2. WH 3. BU 4. BK	Female  Male 
	RKS 4.4T-*/S90 **WKS 4.4T-*/S90**	**RSS 4.4T-*/S90** **WSS 4.4T-*/S90**	AWM TPU Grey, 4x22 AWG, 90 °C, 6.2 mm OD, Cable #RF50810-*M, RFI/EMI shielding		
	RKS 4.4T-*/S824 **WKS 4.4T-*/S824**	**RSS 4.4T-*/S824** **WSS 4.4T-*/S824**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 6.2 mm OD, Cable #RF50729-*M, RFI/EMI shielding, Tray rated		
WKS ..** 	**RKS 4.5T-*** **WKS 4.5T-***	**RSS 4.5T-*** **WSS 4.5T-***	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 6.6 mm OD, Cable #RF50713-*M, RFI/EMI shielding, Tray rated	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
RSS ..** 					
WSS ..** 	**RKS 6T-*** **WKS 6T-***	**RSS 6T-*** **WSS 6T-***	AWM PVC Grey, 6x24 AWG, 105 °C, 6.6 mm OD, Cable #RF50814-*M, RFI/EMI shielding	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 

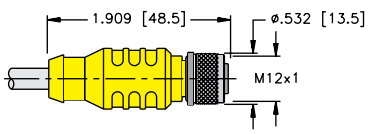
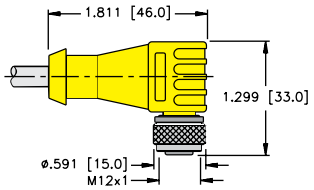
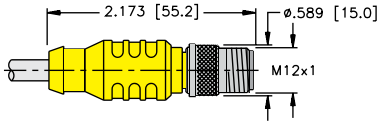
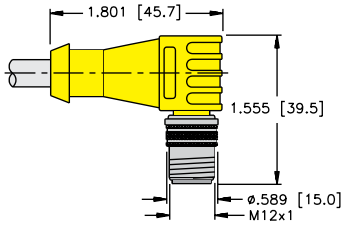
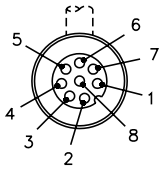
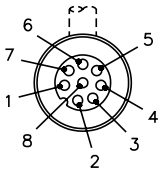
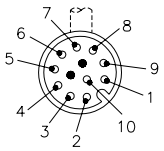
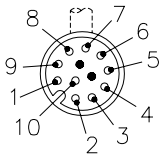
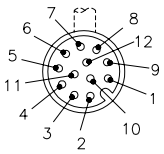
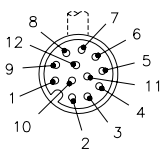
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKS ..."; "RKSV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Wire Cordsets, "S" Style, Shielded

- **Shield to Coupling Nut**
- **IEC IP 67 Protection**
- **60 VAC/75 VDC, 2 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKS ..**  WKS ..**  RSS ..**  WSS ..** 	**RKS 8T-*** **WKS 8T-***	**RSS 8T-*** **WSS 8T-***	AWM PVC Grey, 8x24 AWG, 105 °C, 7.2 mm OD, Cable #RF50813-*M, RFI/EMI shielding, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 
	RKS 10T-* **WKS 10T-***	**RSS 10T-*** **WSS 10T-***	AWM PVC Grey, 10x24 AWG, 105 °C, 7.2 mm OD, Cable #RF51006-*M, RFI/EMI shielding	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
	RKS 12T-* **WKS 12T-***	**RSS 12T-*** **WSS 12T-***	AWM PVC Grey, 12x24 AWG, 105 °C, 7.2 mm OD, Cable #RF50988-*M, RFI/EMI shielding	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

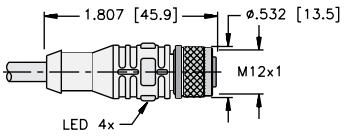
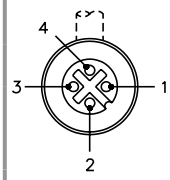
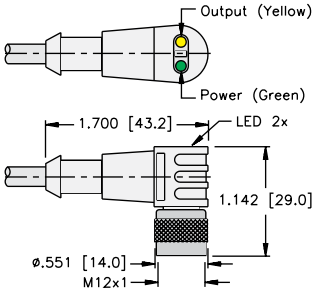
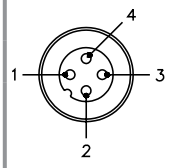
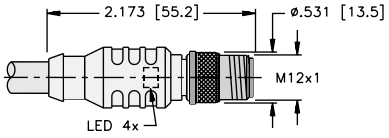
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKS ..."; "RKSV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3-Wire Cordsets with LEDs

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 10-30 VDC, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKE ..** 	**RKE 4T-*-P7X2** **WK 4T-*-P7X2**	**RSE 4T-*-P7X2**	ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD,Cable #RF52081-*M, PNP Signal, Flexlife®	1. BN 2. N/C 3. BU 4. BK	Female 
	RKE 4T-*-N7X2 **WK 4T-*-N7X2**		ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD,Cable #RF52081-*M, NPN Signal, Flexlife		
	RKE 4T-*-P7X2/S90 **WK 4T-*-P7X2/S90**	**RSE 4T-*-P7X2/S90**	AWM TPU Grey, 3x22 AWG, 90 °C, 4.8 mm OD, Cable #RF52080-*M, PNP Signal, Cut/Abrasion Immune		
	RKE 4T-*-N7X2/S90 **WK 4T-*-N7X2/S90**		AWM TPU Grey, 3x22 AWG, 90 °C, 4.8 mm OD, Cable #RF52080-*M, NPN Signal, Cut/Abrasion Immune		
WK ..** 	**WK 4T-*-P7X2/S101**		AWM TPU Grey, 3x22 AWG, 105 °C, 4.8 mm OD, Cable #RF52085-*M, PNP Signal, Flexlife-20, High Flex - Over 20 Million Cycles		
	WK 4T-*-N7X2/S101		AWM TPE Grey, 3x22 AWG, 105 °C, 4.8 mm OD, Cable #RF52085-*M, NPN Signal, Flexlife-20, High Flex - Over 20 Million Cycles		
	WK 4T-*-P7X2/S618		ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52082-*M, PNP Signal, EMI/RFI Protection		
	WK 4T-*-N7X2/S618		ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52082-*M, NPN Signal, EMI/RFI Protection		
	RKE 4T-*-P7X2/S715 **WK 4T-*-P7X2/S715**	**RSE 4T-*-P7X2/S715**	ITC/PLTC PVC Yellow, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52087-*M, PNP Signal, Flexlife		Male 
	RKE 4T-*-N7X2/S715 **WK 4T-*-N7X2/S715**		ITC/PLTC PVC Yellow, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52087-*M, NPN Signal, Flexlife		
RSE ..** 	**RKE 4T-*-P7X2/S824** **WK 4T-*-P7X2/S824**	**RSE 4T-*-P7X2/S824**	ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52081-*M, PNP Signal, Tray Rated, Flexlife		
	RKE 4T-*-N7X2/S824 **WK 4T-*-N7X2/S824**		ITC/PLTC PVC Grey, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF52081-*M, NPN Signal, Tray Rated, Flexlife		

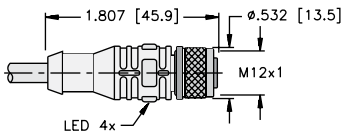
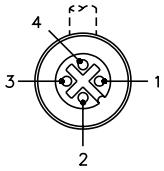
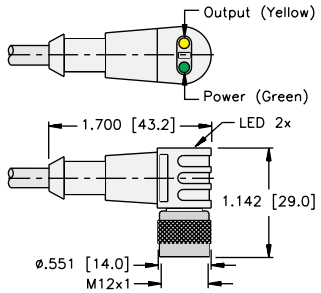
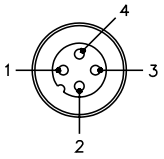
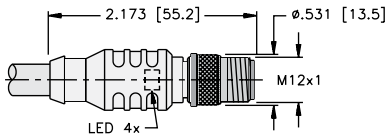
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKE..".

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets with LEDs

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 10-30 VDC, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKE ..** 	**RKE 4.4T-*-P7X2** **WK 4.4T-*-P7X2**	**RSE 4.4T-*-P7X2**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, PNP Signal, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	RKE 4.4T-*-N7X2 **WK 4.4T-*-N7X2**	**RSE 4.4T-*-N7X2**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD Cable #RF50516-*M NPN Signal, Flexlife		
	RKE 4.4T-*-P7X2/S90 **WK 4.4T-*-P7X2/S90**	**RSE 4.4T-*-P7X2/S90**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, PNP Signal, Flexlife		
WK ..** 	**WK 4.4T-*-N7X2/S90**		ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, NPN Signal, Flexlife		
	RKE 4.4T-*-P7X2/S101 **WK 4.4T-*-P7X2/S101**	**RSE 4.4T-*-P7X2/S101**	AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, PNP Signal, Flexlife-20, High Flex - Over 20 Million Cycles		Male 
RSE ..** 	**WK 4.4T-*-N7X2/S101**		AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, NPN Signal, Flexlife-20, High Flex - Over 20 Million Cycles		

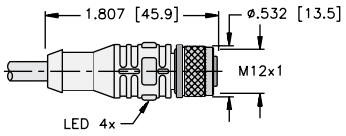
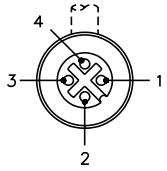
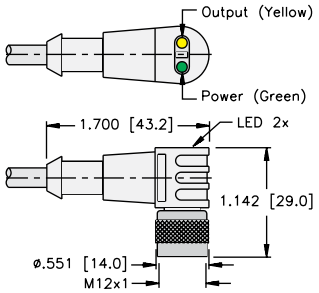
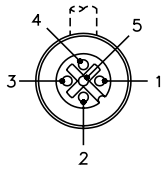
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKE ..".

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Cordsets with LEDs

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 10-30 VDC, 4 A

Connector Style	Female Part Number	Features	Pinout	
RKE ..** 	**WK 4.4T-*-P7X2/S618**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50577-*M, PNP Signal, EMI/RFI Protection	1. BN 2. WH 3. BU 4. BK	Female 
	WK 4.4T-*-N7X2/S618	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50577-*M, NPN Signal, EMI/RFI Protection		
	WK 4.4T-*-P7X2/S824	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50698-*M, PNP Signal, Tray Rated		
	WK 4.4T-*-P7X2/S824	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50698-*M, NPN Signal, Tray Rated		
WK ..** 	**WK 4.5T-*-P7X2**	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50543-*M, PNP Signal, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY	Female 
	RKE 4.5T-*-P7X2	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50543-*M, PNP Signal, Flexlife		

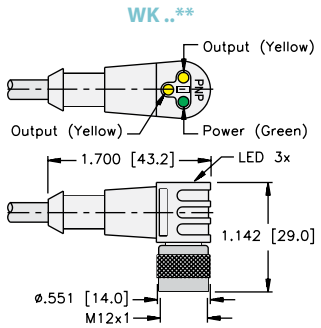
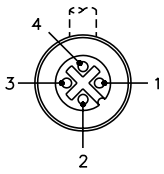
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "WK ..."; "WKV ..." Indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Cordsets with LEDs

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 10-30 VDC, 4 A

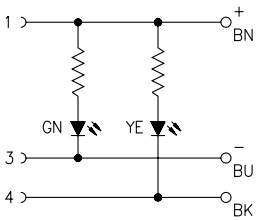
Connector Style	Female Part Number	Features	Pinout	
	**WK 4.4T-*-P7X3**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, PNP Signal, Flexlife®	1. BN 2. WH 3. BU 4. BK	Female 
	WK 4.4T-*-P7X3/S90	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, Cable #RF50532-*M, PNP Signal, Cut/ Abrasion Immune		
	WK 4.4T-*-P7X3/S101	AWM TPE Grey, 4x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50941-*M, PNP Signal, Flexlife-20, High Flex - Over 20 Million Cycles		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "WK ..."; "WKV .." Indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

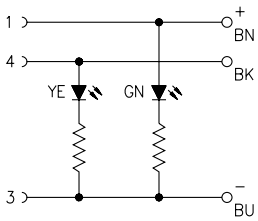
LED Diagrams

3-Wire NPN



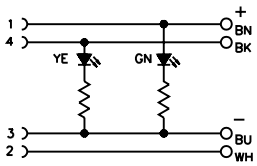
1. + Voltage (Green LED)
2. N/C
3. Common
4. Output (Yellow LED)

3-Wire PNP



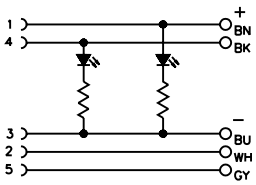
1. + Voltage (Green LED)
2. NC
3. Common
4. Output (Yellow LED)

4-Wire PNP



1. + Voltage (Green LED)
2. Output
3. Common
4. Output (Yellow LED)

5-Wire NPN

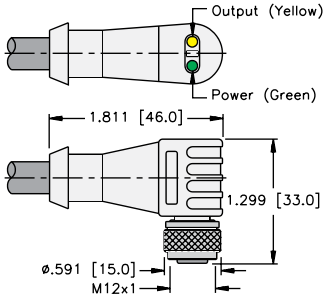
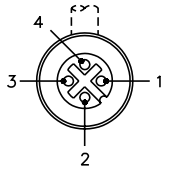
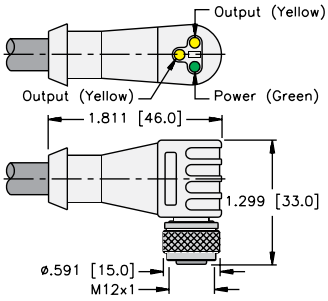
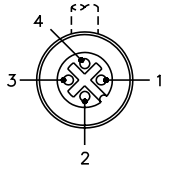


1. + Voltage (Green LED)
2. Output
3. Common
4. Output (Yellow LED)
5. Ground

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

3 and 4-Wire Cordsets with and without LEDs, Rubber

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 10-30 VDC, 4 A

Connector Style	Female Part Number	Features	Pinout	
WKE ..** 	**WKE 4T-*-P7X2/S600**	SJOOW CPE Yellow 3x18 AWG, 105 °C 8.0 mm OD, Cable #RF50654-*M, PNP Signal, Weld Flash Immune, Flame Immune	1. BN 2. N/C 3. BU 4. BK	Female 
	WKE 4T-*-N7X2/S600	SJOOW CPE Yellow 3x18 AWG, 105 °C, 8.0 mm OD, Cable #RF50654-*M, NPN Signal, Weld Flash Immune, Flame Immune		
WKE ..** 	**WKE 4.4T-2-P7X3/S600**	SJOOW CPE Yellow, 4x18 AWG, 105 °C, 8.5 mm OD, Cable #RF50644-*M, PNP Signal, Weld Flash Immune, Flame Immune	1. BN 2. WH 3. BU 4. BK	Female 

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass.

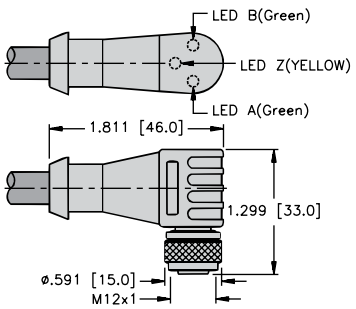
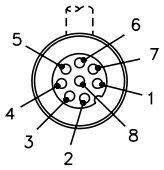
We reserve the right to make technical alterations without prior notice.

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

TURCK

8-Pin Cordset with LEDs

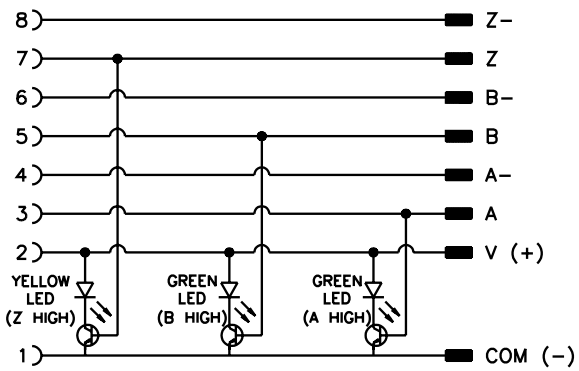
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 5-30 VDC

Connector Style	Female Part Number	Features	Pinout	
E-WK ..** 	**E-WKC 8T-PX3-930-***	AWM PVC, Black, 8x24 AWG, 105 °C, 7.2 mm OD, Cable #RF50930-*M, 3 indicator LEDs in translucent molded connector-for use with Kübler Incremental Encoders	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	Female 

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
** Standard coupling nut material is nickel plated brass "WKC.."; "WKCV.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



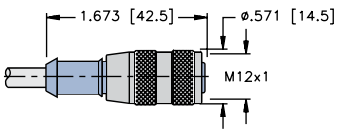
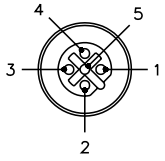
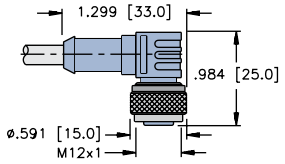
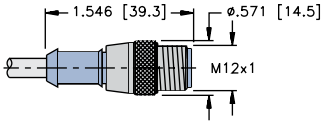
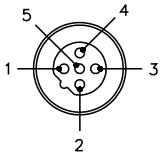
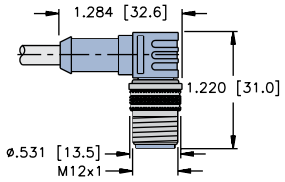
8-Pin Cordset with Encoder

Note: LEDs for indication of channels A, B and Z. Green LEDs indicate channels A and B, while amber is used for the index channel. LEDs can also be used during machine set-up for home position indication, and provide operational status of encoder output channels.

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

3 and 5-Wire Cordsets, Reverse Key (B-Code)

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WAKW ..** 	**WAKW 4T-*/S626** **WWAKW 4T-*/S626**	**WASW 4T-*/S626** **WWASW 4T-*/S626**	ITC/PLTC PVC Grey, 3x20 AWG, 105 °C, 5.3 mm OD, Cable #RF51926-*M, Flexlife®	1. BN 2. BU 4. GN/YE	Female 
WWAKW ..** 	**WAKW 4.5T-*** **WWAKW 4.5T-***	**WASW 4.5T-*** **WWASW 4.5T-***	ITC/PLTC PVC Grey, 4x22, 1x20 AWG, 105 °C, 6.0 mm OD, Cable #RF50563-*M, Flexlife	1. BN 2. WH 3. BU 4. BK 5. GN/YE	
WASW ..** 	**WAKW 4.5T-*/S101** **WWAKW 4.5T-*/S101**	**WASW 4.5T-*/S101** **WWASW 4.5T-*/S101**	AWM TPE Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50909-*M, Flexlife-20, High Flex - Over 20 Million Cycles	1. BN 2. WH 3. BU 4. BK 5. GY	
	WAKW 4.5T-*/S618 **WWAKW 4.5T-*/S618**	**WASW 4.5T-*/S618** **WWASW 4.5T-*/S618**	ITC/PLTC PVC Grey, 5x22 AWG Foil/Drain, 105 °C, 5.7 mm OD, Cable #RF50609-*M, EMI/RFI Protection		Male 
WWASW ..** 	**WAKW 4.5T-*/S653** **WWAKW 4.5T-*/S653**	**WASW 4.5T-*/S653** **WWASW 4.5T-*/S653**	ITC/PLTC PVC Grey, 4x22 AWG Foil/Drain, 105 °C, 5.3 mm OD, Cable #RF50577-*M, EMI/RFI Protection	1. BN 2. WH 3. BU 4. BK 5. Drain	

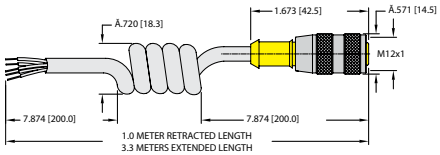
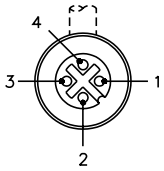
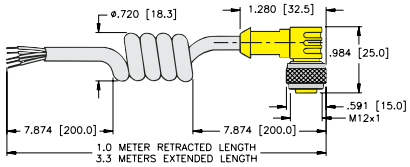
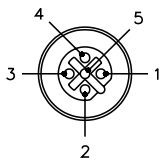
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "WAKW.."; "WAKKW.." indicates nylon and "WAKVW.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Spiral Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Features	Pinout	
RK ..-SP** 	**RK 4T-3.3/S90-SP** **WK 4T-3.3/S90-SP**	AWM TPU Grey, 3x22 AWG, 90 °C, 5.1 mm OD, for repetitive motion 3-wire DC applications	1. BN 3. BU 4. BK	Female 
	RK 4.4T-3.3/S90-SP **WK 4.4T-3.3/S90-SP**	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, for repetitive motion 4-wire DC applications	1. BN 2. WH 3. BU 4. BK	
	RK 4.4T-3/S90-SP/S669 **WK 4.4T-3/S90-SP/S669**	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, for repetitive motion, 4-wire DC applications, Eurofast connector with Picofast® coil cord	1. BN 2. WH 3. BU 4. BK	
WK ..-SP** 	**RK 4.5T-3.3/S90-SP** **WK 4.5T-3.3/S90-SP**	AWM TPU Grey, 5x22 AWG, 90 °C, 5.3 mm OD, for repetitive motion 5-wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	Female 

* Length in meters. Standard cable length is 3.3 meters (Picofast coil standard is 3 meters). Consult factory for other lengths.

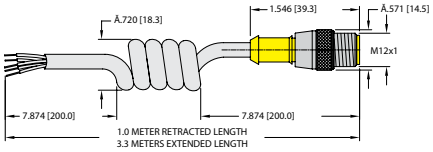
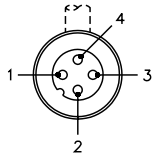
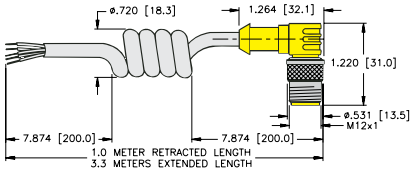
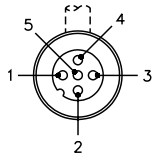
** Standard coupling nut material is nickel plated brass .. "RK(WK)..."; "RKK(WKK).." indicates nylon and "RKV(WKV)" indicates 316 stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Spiral Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Features	Pinout	
RS ..-SP** 	**RS 4T-3.3/S90-SP** **WS 4T-3.3/S90-SP**	AWM TPU Grey, 3x22 AWG, 90 °C, 5.1 mm OD, for repetitive motion 3-wire DC applications	1. BN 3. BU 4. BK	Male 
	RS 4.4T-3.3/S90-SP **WS 4.4T-3.3/S90-SP**	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, for repetitive motion 4-wire DC applications	1. BN 2. WH 3. BU 4. BK	
	RS 4.4T-3/S90-SP/S669 **WS 4.4T-3/S90-SP/S669**	AWM TPU Black, 4x26 AWG, 90 °C, 4.2 mm OD, for repetitive motion 4-wire DC applications, Eurofast connector with Picofast® coil cord	1. BN 2. WH 3. BU 4. BK	
WS ..-SP** 	**RS 4.5T-3.3/S90-SP** **WS 4.5T-3.3/S90-SP**	AWM TPU Grey, 5x22 AWG, 90 °C, 5.3 mm OD, for repetitive motion 5-wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	Male 

* Length in meters. Standard cable length is 3.3 meters (Picofast coil standard is 3 meters). Consult factory for other lengths.

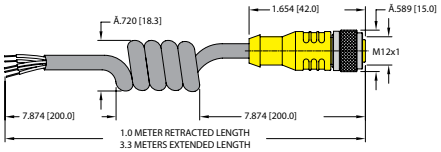
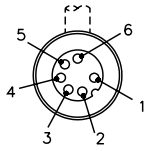
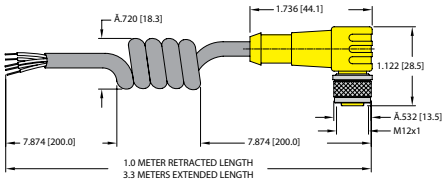
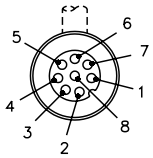
** Standard coupling nut material is nickel plated brass .. "RS (WS).."; "RSK (WSK).." indicates nylon and "RSV (WSV)" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Spiral Cordsets, "C" Style Medium Plug Body

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **60 VAC/75 VDC, 2A**

Connector Style	Female Part Number	Features	Pinout	
RKC ..-SP** 	**RKC 6T-3.3/S90-SP** **WKC 6T-3.3/S90-SP**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, for repetitive motion 6-wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female 
WK ..-SP** 	**RKC 8.6T-3.3/S90-SP/CS10451** **WKC 8.6T-3.3/S90-SP/CS10451**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, for repetitive motion 6-wire DC applications	1. WH 2. BK 3. PK 4. GY 5. BN 6. N/C 7. BU 8. N/C	Female 

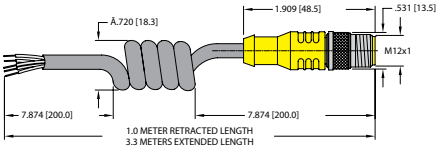
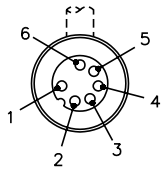
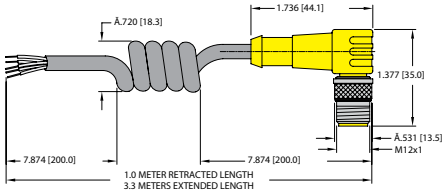
* Length in meters. Standard cable length is 3.3 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass .. "RKC(WKC)..."; "RKCV(WKCV)" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Spiral Cordsets, "C" Style Medium Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Male Part Number	Features	Pinout	
RSC ..-SP** 	**RSC 6T-3.3/S90-SP** **WSC 6T-3.3/S90-SP**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, for repetitive motion 6-wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Male 
WSC ..-SP** 	**RSC 8.6T-3.3/S90-SP/CS10451** **WSC 8.6T-3.3/S90-SP/CS10451**	AWM TPU Black, 6x24 AWG, 90 °C, 5.1 mm OD, for repetitive motion 6-wire DC applications	1. WH 2. BK 3. PK 4. GY 5. BN 6. N/C 7. BU 8. N/C	

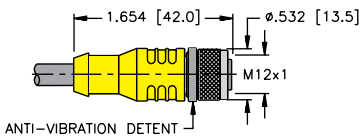
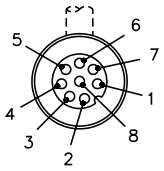
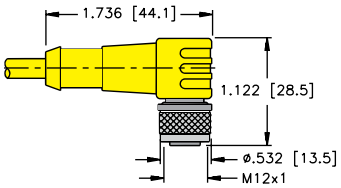
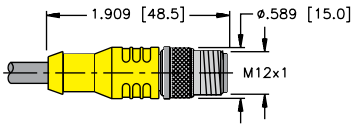
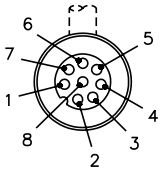
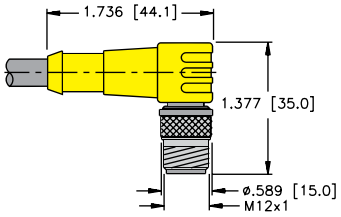
* Length in meters. Standard cable length is 3.3 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass .. "RSC(WSC).."; "RSCV(WSCV)" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8-Pin Cordsets

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A
- For use with Kübler by Turck's Incremental Encoders

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
E-RKC.. 	**E-RKC 8T-930-*** **E-WKC 8T-930-***	**E-RSC 8T-930-*** **E-WSC 8T-930-***	AWM PVC Black, 8x24 AWG, 105 °C, 7.2 mm OD, Cable #RF50930-*M, Differential Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	Female 
E-WKC.. 	**E-RKC 8T-930-*/S1115** **E-WKC 8T-930-*/S1115**	**E-RSC 8T-930-*/S1115** **E-WSC 8T-930-*/S1115**	AWM PVC Black, 8x24 AWG, 105 °C, 7.2 mm OD, Cable #RF50930-*M, Single Ended Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. N/C 5. GY 6. N/C 7. BU 8. N/C	
E-RSC.. 					Male 
E-WSC.. 	**E-RKC 8T-264-*** **E-WKC 8T-264-***	**E-RSC 8T-264-*** **E-WSC 8T-264-***	AWM PVC Black, 8x24 AWG, 4 STP, 105 °C, 6.6 mm OD, Cable #RF51264-*M, Differential Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	

* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.

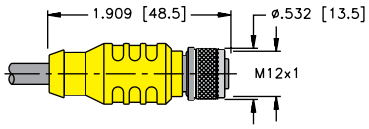
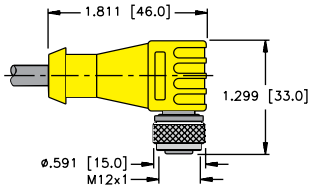
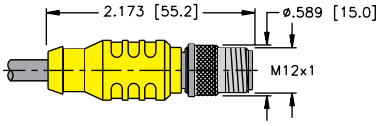
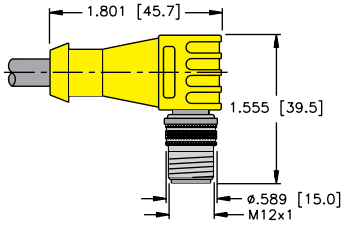
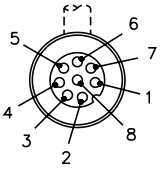
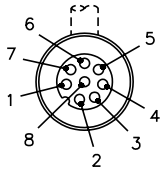
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC../E-RKS../E-WKS..."; "E-RKCV../E-WKCV../E-RKSV../E-WKSV.." indicates stainless steel.
STP = Shielded twisted pair.

We reserve the right to make technical alterations without prior notice.

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

8-Pin Cordsets

- IEC IP67
- 60 VAC/75 VDC, 2 A
- For use with Kübler by Turck's Incremental Encoders

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
E-RKC..  E-WKS..  E-RSS..  E-WSS.. 	**E-RKS 8T-930-*** **E-WKS 8T-930-***	**E-RSS 8T-930-*** **E-WSS 8T-930-***	AWM PVC Black 8x24 AWG 105 °C 7.2 mm OD Cable #RF50930-*M, Differential Mode Applications, Shield Tied to Coupling Nut, RFI/EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 
	E-RKS 8T-264-* **E-WKS 8T-264-***	**E-RSS 8T-264-*** **E-WSS 8T-264-***	AWM PVC Black, 8x24 AWG, 4 STP, 105 °C, 6.6 mm OD, Cable #RF51264-*M, Differential Mode Applications, RFI/EMI Protection		

* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.

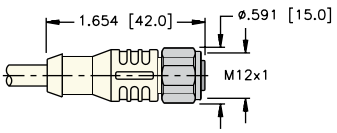
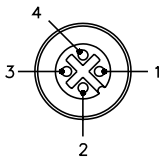
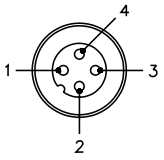
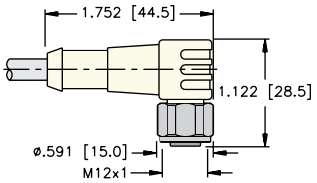
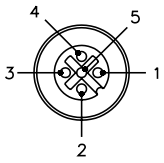
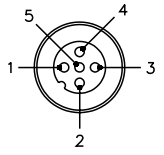
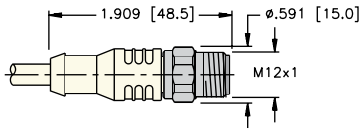
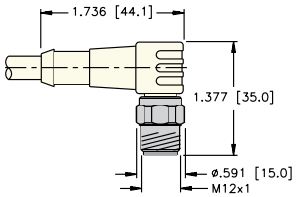
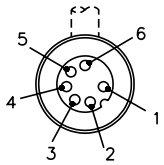
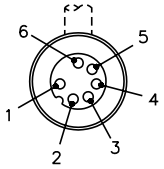
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC../E-RKS../E-WKS..."; "E-RKCV../E-WKCV../E-RKSV../E-WKSV.." indicates stainless steel.
STP = Shielded twisted pair.

We reserve the right to make technical alterations without prior notice.

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

3, 4, 5 and 6-Wire Washdown Cordsets

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **Polypropylene Contact Holder, Mold Material & Cable Jacket**
- **High Chemical Solvent Resistance, High Tensile Strength**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WD-RKCV.. 	**WD-RKCV 4T-*** **WD-WKCV 4T-***	**WD-RSCV 4T-*** **WD-WSCV 4T-***	PP White, 3x20 AWG 105 °C, 250 V, 4 A 5.1 mm OD, Cable #RF51440-*M	1. BN 2. N/C 3. BU 4. BK	**Female** 
	WD-RKCV 4.4T-* **WD-WKCV 4.4T-***	**WD-RSCV 4.4T-*** **WD-WSCV 4.4T-***	PP White, 4x22 AWG 105 °C, 250 V, 4 A 4.4 mm OD, Cable #RF51359-*M	1. BN 2. WH 3. BU 4. BK	**Male** 
WD-WKCV.. 	**WD-RKCV 4.5T-*** **WD-WKCV 4.5T-***	**WD-RSCV 4.5T-*** **WD-WSCV 4.5T-***	PP White, 5x22 AWG 105 °C, 250 V, 4 A 4.5 mm OD Cable #RF51466-*M	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
WD-RSCV.. 					
WD-WSCV.. 	**WD-RKCV 6T-*** **WD-WKCV 6T-***	**WD-RSCV 6T-*** **WD-WSCV 6T-***	PP White, 6x24 AWG 105 °C, 60 VAC/75 VDC, 2 A 4.5 mm OD Cable #RF51467-*M	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 

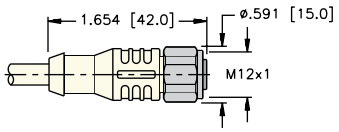
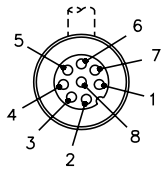
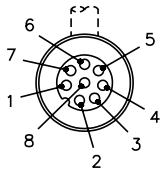
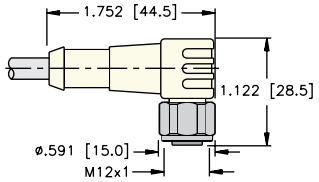
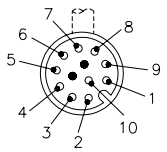
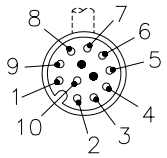
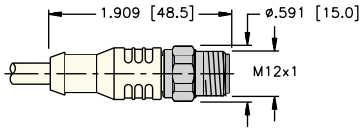
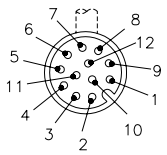
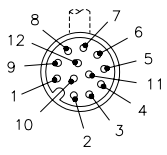
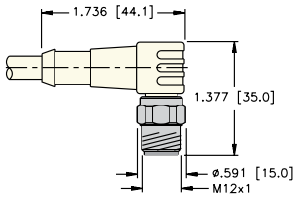
* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.
Standard coupling nut material is stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Wire Washdown Cordsets

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **Polypropylene Contact Holder, Mold Material & Cable Jacket**
- **High Chemical Solvent Resistance, High Tensile Strength**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WD-RKCV.. 	**WD-RKCV 8T-*** **WD-WKCV 8T-***	**WD-RSCV 8T-*** **WD-WSCV 8T-***	PP White, 8x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, 5.1 mm OD, Cable #RF51465-*M	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 
WD-WKCV.. 	**WD-RKCV 10T-*** **WD-WKCV 10T-***	**WD-RSCV 10T-*** **WD-WSCV 10T-***	PP White, 10x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, 5.7 mm OD, Cable #RF51602-*M	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
WD-RSCV.. 	**WD-RKCV 12T-*** **WD-WKCV 12T-***	**WD-RSCV 12T-*** **WD-WSCV 12T-***	PP White, 12x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, 5.7 mm OD, Cable #RF51464-*M	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 
WD-WSCV.. 					

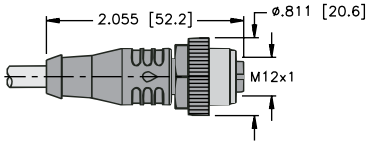
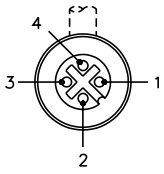
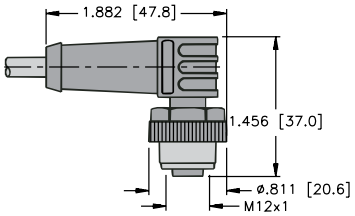
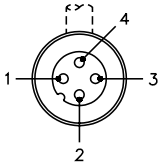
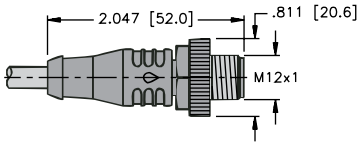
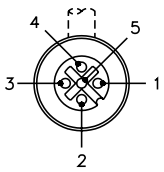
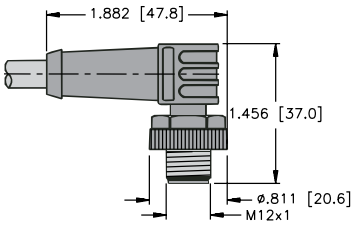
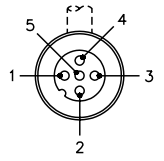
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3, 4 and 5-Wire True Torque Cordsets

- **Integrated Torque Control System**
- **IEC IP67**
- **250 V, 4 A (3 & 4-wires) 60 V, 4 A (5-wire)**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
NM-RKC.. 	**NM-RKC 4T-*/S849** **NM-WKC 4T-*/S849**	**NM-RSC 4T-*/S849** **NM-WSC 4T-*/S849**	PVC Grey, 3x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. N/C 3. BU 4. BK	Female 
	NM-RKC 4T-*/S90/S849 **NM-WKC 4T-*/S90/S849**	**NM-RSC 4T-*/S90/S849** **NM-WSC 4T-*/S90/S849**	TPU Grey, 3x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. N/C 3. BU 4. BK	
NM-WKC.. 	**NM-RKC 4.4T-*/S849** **NM-WKC 4.4T-*/S849**	**NM-RSC 4.4T-*/S849** **NM-WSC 4.4T-*/S849**	PVC Grey, 4x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. WH 3. BU 4. BK	Male 
	NM-RKC 4.4T-*/S90/S849 **NM-WKC 4.4T-*/S90/S849**	**NM-RSC 4.4T-*/S90/S849** **NM-WSC 4.4T-*/S90/S849**	TPU Grey, 4x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. WH 3. BU 4. BK	
NM-RSC.. 	**NM-RKC 4.5T-*/S849** **NM-WKC 4.5T-*/S849**	**NM-RSC 4.5T-*/S849** **NM-WSC 4.5T-*/S849**	PVC Grey, 5x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. WH 3. BU 4. BK 5. GY	Female 
	NM-RKC 4.5T-*/S90/S849 **NM-WKC 4.5T-*/S90/S849**	**NM-RSC 4.5T-*/S90/S849** **NM-WSC 4.5T-*/S90/S849**	TPU Grey, 5x22 AWG, 80 °C, 5.2 mm OD	1. BN 2. WH 3. BU 4. BK 5. GY	
NM-WSC.. 					Male 

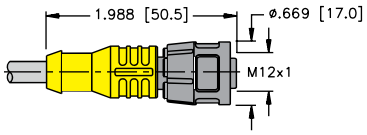
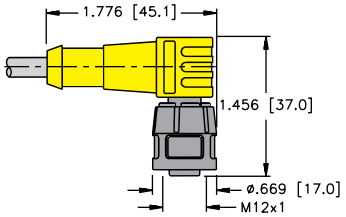
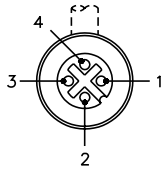
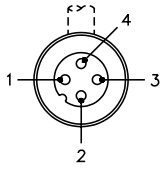
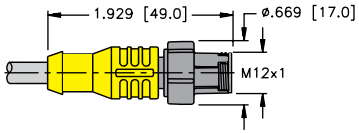
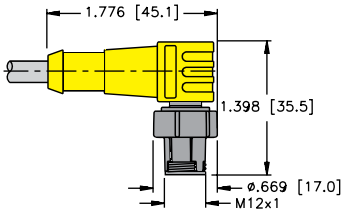
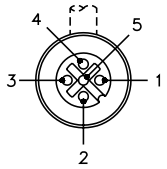
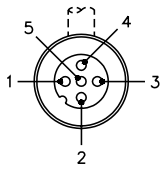
* Length in meters. Standard cable lengths are 2, 5, and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel-plated brass/nylon combination.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire S12 Quick-Connect™ Cordsets

- **Straight and Right Angle Female Connectors**
- **IEC IP 67 Protection**
- **250 V, 4 A**
- **Nylon Coupling Nut**

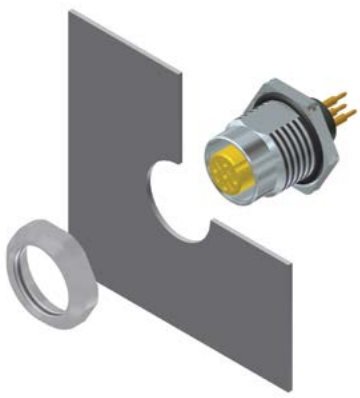
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKC..  WKC.. 	**RKC 4.4Q-*/S849** **WKC 4.4Q-*/S849**	**RSC 4.4Q-*/S849** **WSC 4.4Q-*/S849**	ITC/PLTC PVC Grey, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50516-*M, Quick-Connect coupling	1. BN 2. WH 3. BU 4. BK	**Female**  **Male** 
RSC..  WSC.. 	**RKC 4.5Q-*/S849** **WKC 4.5Q-*/S849**	**RSC 4.5Q-*/S849** **WSC 4.5Q-*/S849**	ITC/PLTC PVC Grey, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50543-*M, Quick-Connect coupling	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

Receptacle Selection Guide

Mounting Style	Image	Panel Thread Types	Page
Front Mount		PG 9	D46
		1/4-18 NPT	D49
		1/2-14 NPSM	D52
		1/2-14 NPT	D54
		M20	D57
		PG 16	D59
		PG 13.5	D60
		PG 9 w/Rotating Coupling	D61
		1/4-18 w/Solder Cups	D62
		PG 9 w/Solder Cups	D63
		PG 9 Reverse Key	D77
Rear Mount		PG 9 w/Leads	D66
		PG 9 w/Solder Cups	D68
		PG 9 Reverse Key	D79
		Back Panel Mount	D81
PCB Mount		PG 9 w/PCB Pins	D70
		PG 9 PCB w/Header Pins	D73
		Circuit Board Mounted	D75

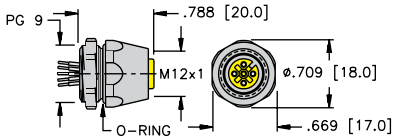
We reserve the right to make technical alterations without prior notice.

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

2, 4 and 5-Wire Receptacles, Front Mount, PG 9 Threads

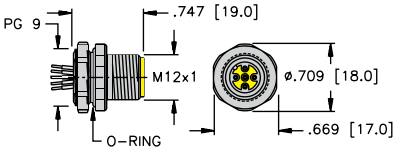
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

FK(N) ..*

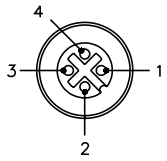
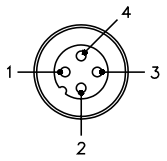
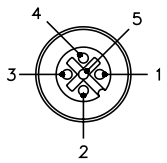
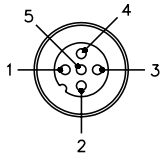


Typical panel cutout is 15.2 mm

FS(N) ..*



Typical panel cutout is 15.2 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	FK 4.2-*	**FS 4.2-***	2x22 AWG, 105 °C, mates with 2-pin cordsets	1. N/C 2. N/C 3. BN 4. BU	Female 
	FK 4.21-*	**FS 4.21-***	2x22 AWG, 105 °C, mates with 2-pin cordsets	1. BN 2. BU 3. N/C 4. N/C	
	FK 4.22-*	**FS 4.22-***	2x22 AWG, 105 °C, mates with 2-pin cordsets	1. BN 2. N/C 3. BU 4. N/C	
	FK 4.4-*	**FS 4.4-***	4x22 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Male 
	FK 4.4-*/S613	**FS 4.4-*/S613**	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	
	FK 4.4-*/S621	**FS 4.4-*/S621**	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4	
	FK 4.5-*	**FS 4.5-***	5x22 AWG, 105 °C, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female 
	FK 4.5-*/S627	**FS 4.5-*/S627**	5x20 AWG, 105 °C, mates with 5-pin cordsets		
	FK 4.5-*/S653	**FS 4.5-*/S653**	4x22 AWG, Drain, 105 °C, 5.1 mm OD, mates with 5-pin cordsets, 4 conductors PVC foil shielded with drain wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	Male 
	FKN 5-*	**FSN 5-***	5x22 AWG, 105 °C	1. GN 2. WH 3. OG 4. BK 5. RD	

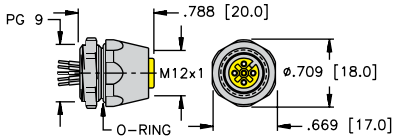
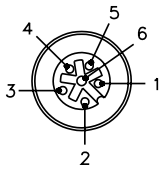
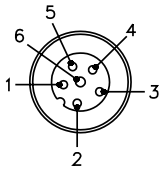
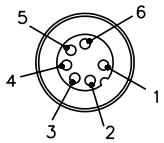
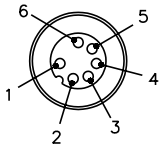
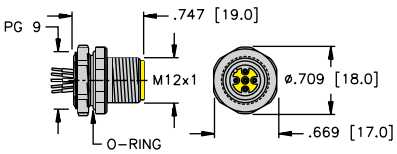
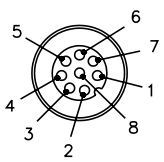
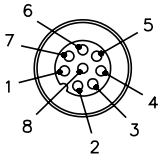
* Length in meters. Standard Lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6 and 8-Wire Receptacles, Front Mount, PG 9 Threads

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..*  **Typical panel cutout is 15.2 mm**	**FK 4.6-***	**FS 4.6-***	6x22 AWG, 105 °C, 250 V, 4 A mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	FK 6-*	**FS 6-***	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
FS ..*  **Typical panel cutout is 15.2 mm**	**FK 8-***	**FS 8-***	8x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A mates with 8-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female** 
	FK 8.6-*	**FS 8.6-***	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A mates with 8-pin cordsets	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	**Male** 

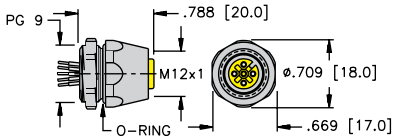
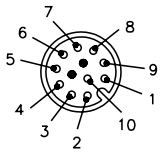
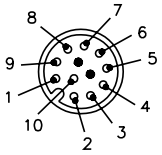
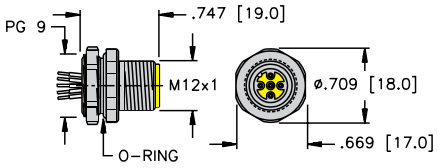
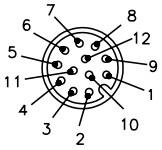
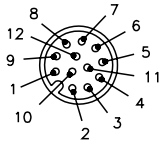
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

10 and 12-Wire Receptacles, Front Mount, PG 9 Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..*  **Typical panel cutout is 15.2 mm**	**FK 10-***	**FS 10-***	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
FS ..*  **Typical panel cutout is 15.2 mm**	**FK 12-***	**FS 12-***	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

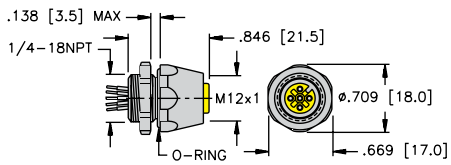
We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

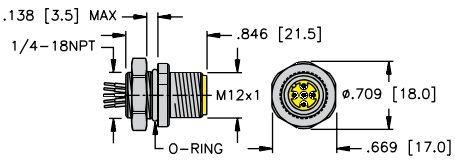
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

FK .. */18.25

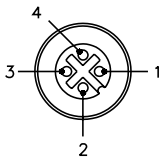
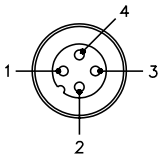
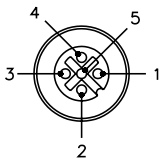
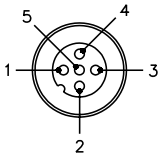


Typical panel cutout is 14.3 mm

FS ..18.25



Typical panel cutout is 14.3 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK .. */18.25 / FS ..18.25	FK 4.4-*/18.25	FS 4.4-*/18.25	4x22 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Female  Male 
	FK 4.4-*/18.25/S613	FS 4.4-*/18.25/S613	4x18 AWG, 105 °C, mates with 4-pin cordsets		
	FK 4.4-*/18.25/S621	FS 4.4-*/18.25/S621	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4	
	FK 4.5-*/18.25	FS 4.5-*/18.25	5x22 AWG, 105 °C, mates with 5-pin Cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
	FK 4.5-*/18.25/S627	FS 4.5-*/18.25/S627	5x20 AWG, 105 °C, mates with 5-pin cordsets		
	FK 4.5-*/18.25/S653	FS 4.5-*/18.25/S653	4x22 AWG, Drain, 105 °C, 5.1 mm OD, mates with 5-pin cordsets, 4 conductors PVC foil shielded with drain wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	
	FK 4.5-*/18.25/S621	FS 4.5-*/18.25/S621	5x18 AWG, 105 °C, mates with 5-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4 5. GY5	

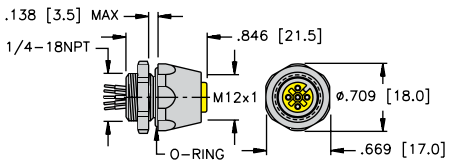
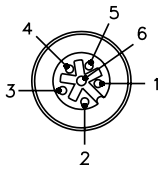
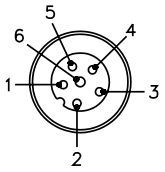
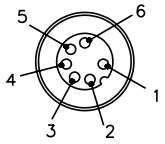
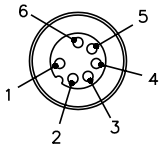
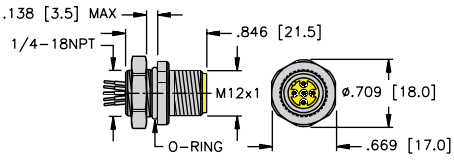
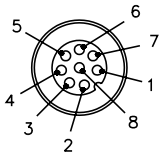
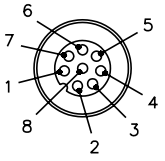
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6 and 8-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK .. */18.25  **Typical panel cutout is 14.3 mm**	**FK 4.6-*/18.25**	**FS 4.6-*/18.25**	6x22 AWG, 105 °C, 250 V, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 
	FK 6-*/18.25	**FS 6-*/18.25**	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 
FS ..18.25  **Typical panel cutout is 14.3 mm**	**FK 8-*/18.25**	**FS 8-*/18.25**	8x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	Female 
	FK 8-*/18.25/S1505	**FS 8-*/18.25/S1505**	8x26 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordsets		
	FK 8.6-*/18.25	**FS 8.6-*/18.25**	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordsets	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	Male 

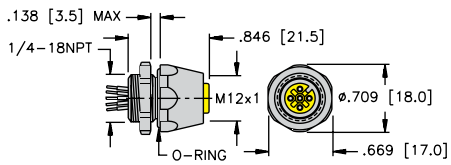
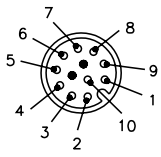
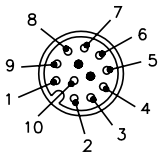
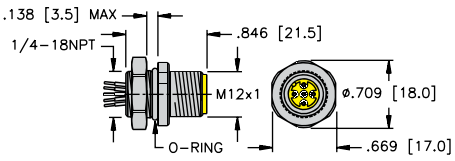
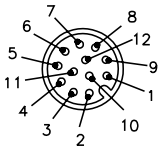
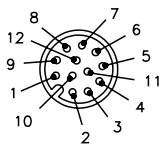
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

10 and 12-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK .. */18.25  **Typical panel cutout is 14.3 mm**	**FK 10-*/18.25**	**FS 10-*/18.25**	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
FS ..18.25  **Typical panel cutout is 14.3 mm**	**FK 12-*/18.25**	**FS 12-*/18.25**	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

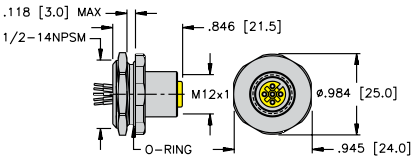
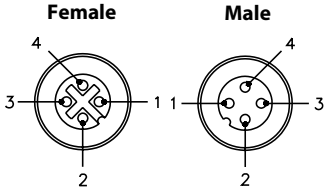
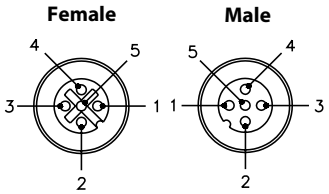
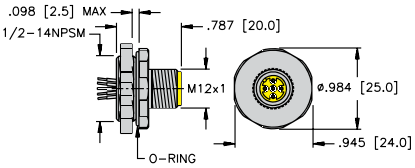
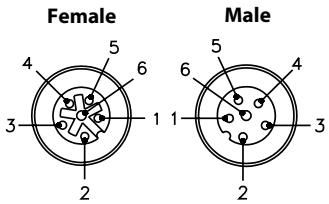
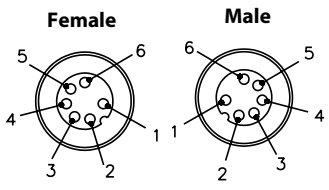
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4, 5, and 6-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..14.5  **Typical panel cutout is 21 mm**	**FK 4.4-*/14.5**	**FS 4.4-*/14.5**	4x22 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	
	FK 4.4-*/14.5/S613	**FS 4.4-*/14.5/S613**	4x18 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	
	FK 4.4-*/14.5/S621	**FS 4.4-*/14.5/S621**	4x18 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4	
	FK 4.5-*/14.5	**FS 4.5-*/14.5**	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	
FS .. 14.5  **Typical panel cutout is 21 mm**	**FK 4.6-*/14.5**	**FS 4.6-*/14.5**	6x22 AWG, 105 °C, 250 V, 4 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	
	FK 6-*/14.5	**FS 6-*/14.5**	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

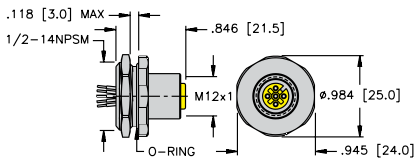
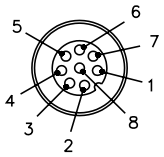
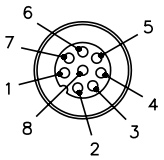
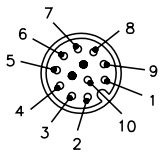
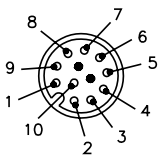
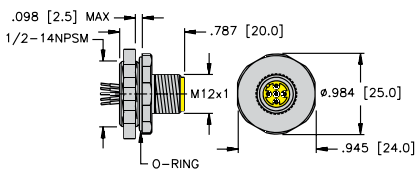
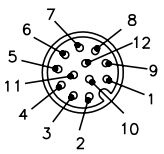
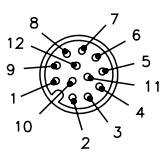
We reserve the right to make technical alterations without prior notice.

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

TURCK

8, 10 and 12-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..14.5  **Typical panel cutout is 21 mm**	**FK 8-*/14.5**	**FS 8-*/14.5**	8x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female** 
	FK 8.6-*/14.5	**FS 8.6-*/14.5**	6x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	**Male** 
	FK 10-*/14.5	**FS 10-*/14.5**	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
FS .. 14.5  **Typical panel cutout is 21 mm**	**FK 12-*/14.5**	**FS 12-*/14.5**	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

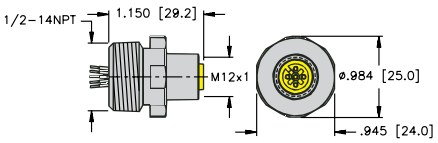
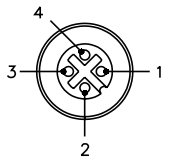
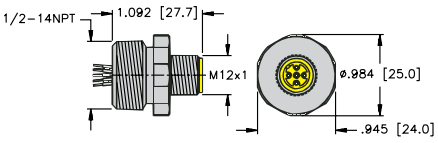
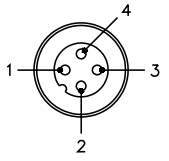
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

2 and 4-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..14.5/NPT  **Typical panel cutout is 22.5 mm**	**FK 4.2-*/14.5/NPT**	**FS 4.2-*/14.5/NPT**	2x22 AWG, 105 °C, mates with 2-pin cordsets	1. N/C 2. N/C 3. BN 4. BU	**Female** 
	FK 4.22-*/14.5/NPT	**FS 4.22-*/14.5/NPT**	2x22 AWG, 105 °C, mates with 2-pin cordsets	1. BN 2. N/C 3. BU 4. N/C	
FS .. 14.5/NPT  **Typical panel cutout is 22.5 mm**	**FK 4.4-*/14.5/NPT**	**FS 4.4-*/14.5/NPT**	4x22 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	**Male** 
	FK 4.4-*/14.5/NPT/S613	**FS 4.4-*/14.5/NPT/S613**	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	

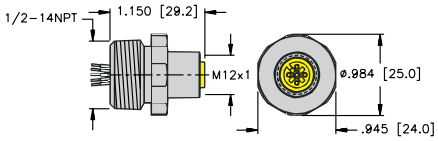
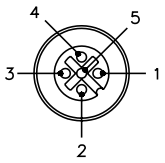
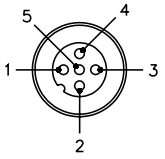
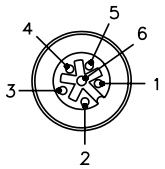
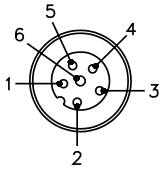
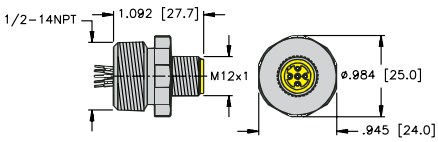
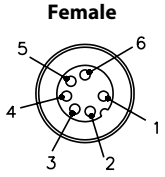
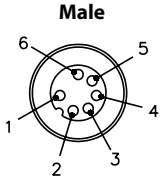
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK ..14.5/NPT  **Typical panel cutout is 22.5 mm**	**FK 4.5-*/14.5/NPT**	**FS 4.5-*/14.5/NPT**	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
	FK 4.6-*/14.5/NPT	**FS 4.6-*/14.5/NPT**	6x22 AWG, 105 °C, 250 V, 4 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 
FS .. 14.5/NPT  **Typical panel cutout is 22.5 mm**	**FK 6-*/14.5/NPT**	**FS 6-*/14.5/NPT**	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordsets		Female  Male 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

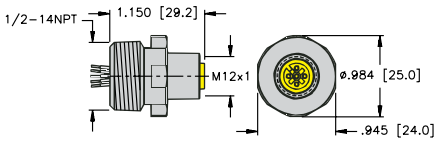
We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

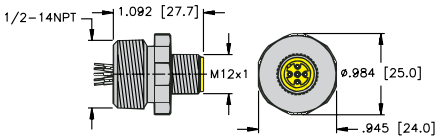
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

FK ..14.5/NPT

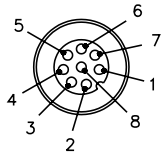
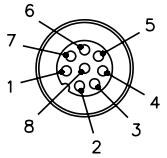
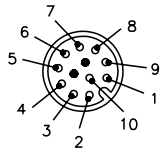
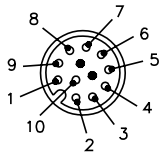
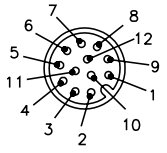
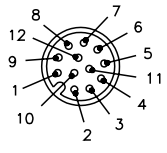


Typical panel cutout is 22.5 mm

FS .. 14.5/NPT



Typical panel cutout is 22.5 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	FK 8-*/14.5/NPT	**FS 8-*/14.5/NPT**	8x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female** 
	FK 8.6-*/14.5/NPT	**FS 8.6-*/14.5/NPT**	6x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	**Male** 
	FK 10-*/14.5/NPT	**FS 10-*/14.5/NPT**	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
	FK 12-*/14.5/NPT	**FS 12-*/14.5/NPT**	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

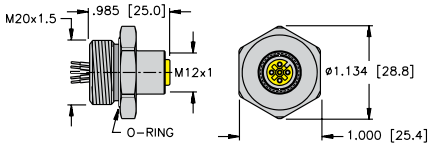
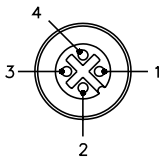
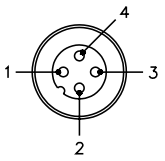
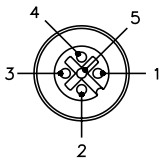
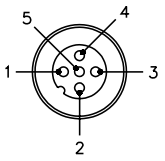
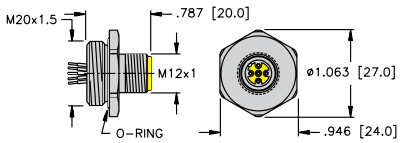
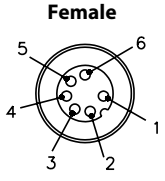
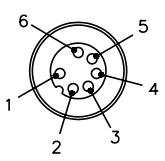
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Receptacles, Front Mount, M20 Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK ../M20  **Typical panel cutout is 20.4 mm**	**FK 4.4-*/M20**	**FS 4.4-*/M20**	4x22 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Female  Male 
	FK 4.5-*/M20	**FS 4.5-*/M20**	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
FS ../M20  **Typical panel cutout is 20.4 mm**	**FK 6-*/M20**	**FS 6-*/M20**	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

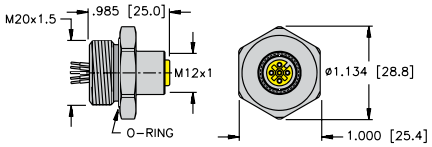
We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Wire Receptacles, Front Mount, M20 Threads

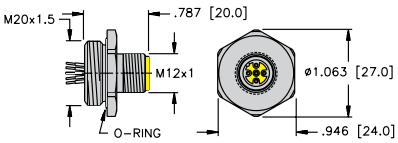
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

FK ../M20

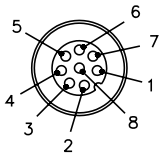
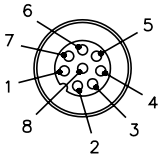
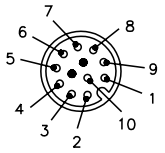
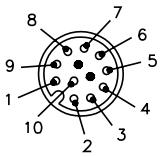
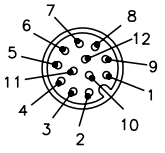
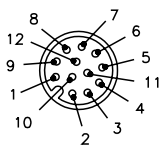


Typical panel cutout is 20.4 mm

FS ../M20



Typical panel cutout is 20.4 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	FK 8-*/M20	**FS 8-*/M20**	8x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female** 
	FK 8.6-*/M20	**FS 8.6-*/M20**	6x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	**Male** 
	FK 10-*/M20	**FS 10-*/M20**	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
	FK 12-*/M20	**FS 12-*/M20**	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

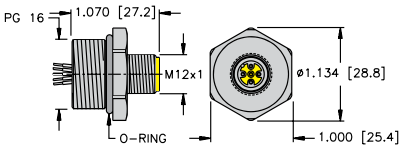
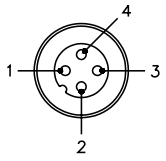
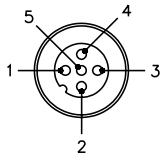
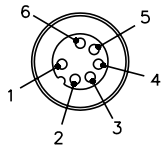
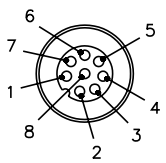
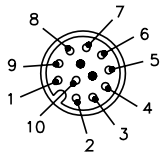
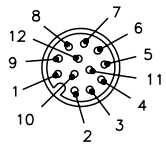
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4, 5, 6, 8, 10 and 12-Wire Receptacles, Front Mount, PG 16 Threads

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**

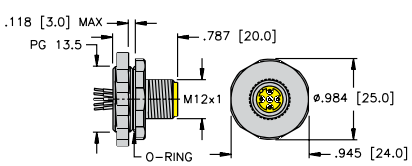
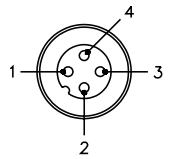
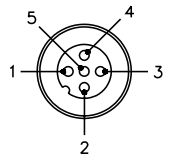
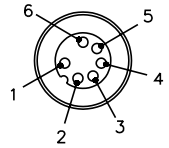
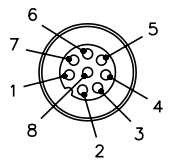
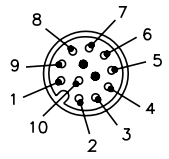
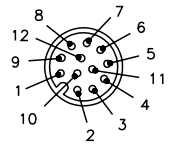
Connector Style	Male Part Number	Features	Pinout	
FS ../PG16  **Typical panel cutout is 22.5 mm**	**FS 4.4-*/PG16**	4x22 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordset, CSA Approved	1. BN 2. WH 3. BU 4. BK	
	FS 4.5-*/PG16	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordset, CSA Approved	1. BN 2. WH 3. BU 4. BK 5. GY	
	FS 6-*/PG16	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordset, CSA Approved	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	
	FS 8-*/PG16	8x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordset, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	
	FS 8.6-*/PG16	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordset, CSA Approved	1. WH 2. GN 3. YE 4. GY 5. BN 6. N/C 7. BU 8. N/C	
	FS 10-*/PG16	10x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 10-pin cordset	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	
	FS 12-*/PG16	12x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 12-pin cordset	1. WH 7. BU 2. BN 8. RD 3. GN 9. OG 4. YE 10. TN 5. GY 11. BK 6. PK 12. VT	

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Receptacles, Front Mount, PG 13.5 Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection

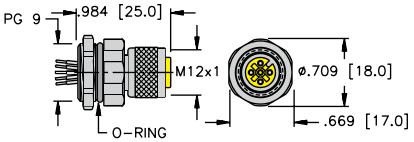
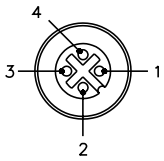
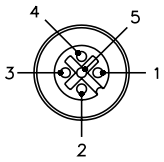
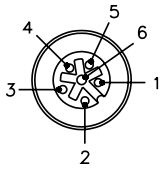
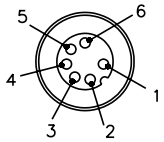
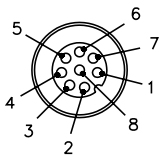
Housing Style	Male Part Number	Features	Pinout	
FS ../PG13.5  **Typical panel cutout is 20.4 mm**	**FS 4.4-*/PG13.5**	4x22 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets, PG 13.5 Threads, CSA Approved	1. BN 2. WH 3. BU 4. BK	
	FS 4.5-*/PG13.5	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordsets, PG 13.5 Threads, CSA Approved	1. BN 2. WH 3. BU 4. BK 5. GY	
	FS 6-*/PG13.5	6x22 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 4-pin cordsets, PG 13.5 Threads, CSA Approved	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	
	FS 8-*/PG13.5	8x22 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 4-pin cordsets, PG 13.5 Threads, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	
	FS 10-*/PG13.5	10x22 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 4-pin cordsets, PG 13.5 Threads	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	
	FS 12-*/PG13.5	12x22 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 4-pin cordsets, PG 13.5 Threads	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	

We reserve the right to make technical alterations without prior notice.

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

4, 5, 6 and 8-Wire Receptacles, with Rotating Coupling Nut

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**

Housing Style	Female Part Number	Features	Pinout	
FKM ..*  **Typical panel cutout is 15.2 mm**	**FKM 4.4-***	4x22 AWG, 105 °C, 250 V, 4 A, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	
	FKM 4.5-*	5x22 AWG, 105 °C, 250 V, 4 A, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	
	FKM 4.5-*/S653	4x22 AWG, Drain, 105 °C, 250 V, 4 A, 5.1 mm OD, mates with 5-pin cordsets, 4 conductors PVC foil Shielded with Drain Wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	
	FKM 4.6-*	6x22 AWG, 105 °C, 250 V, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	
	FKM 6-*	6x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	
	FKM 8-*	8x24 AWG, 105 °C, 60 VAC/75 VDC, 2 A, mates with 8-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	

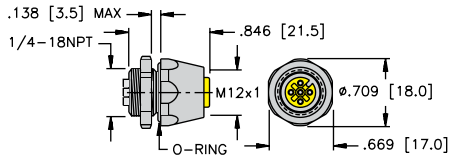
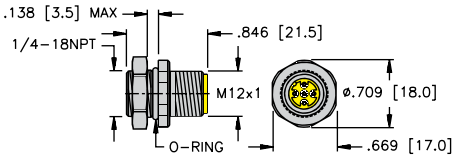
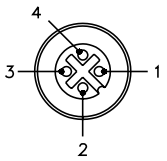
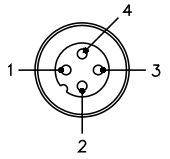
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Receptacles, Front Mount, Leads and Solder Cups

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FK ..18.25  **Typical panel cutout is 14.3 mm** FS ..18.25  **Typical panel cutout is 14.3 mm**	**FK 4.4/18.25**	**FS 4.4/18.25**	105 °C, Solder Cup, mates with 4-pin cordsets, 1/4-18 NPT Threads	**Female**  **Male** 

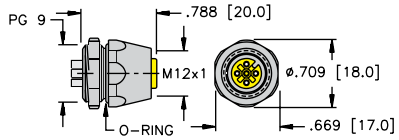
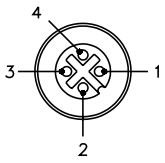
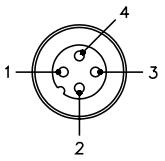
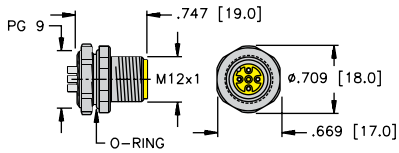
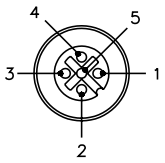
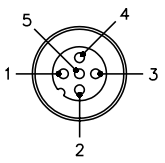
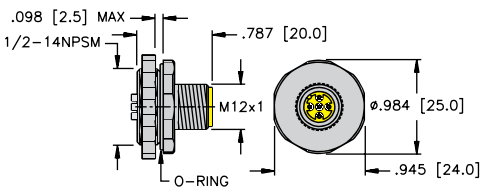
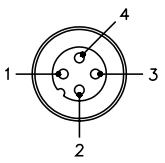
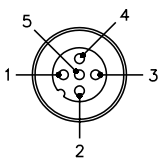
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FS.."; "FSV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Receptacles, Front Mount, Leads and Solder Cups

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

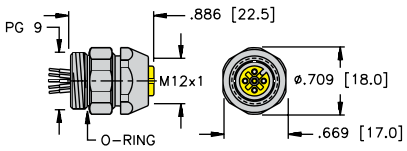
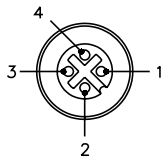
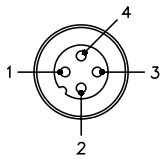
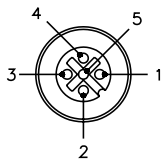
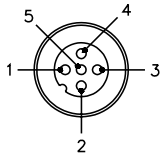
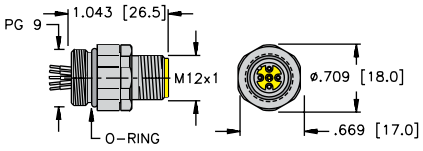
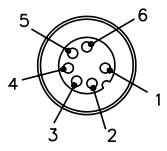
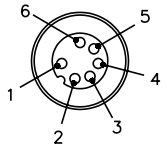
Housing Style	Female Part Number	Male Part Number	Features	Pinout
FK ..  **Typical panel cutout is 15.2 mm**	**FK 4.4**	**FS 4.4**	105 °C, Solder Cup, mates with 4-pin cordsets, PG 9 Threads	**Female**  **Male** 
FS ..  **Typical panel cutout is 15.2 mm**	**FK 4.5**	**FS 4.5**	105 °C, Solder Cup, mates with 5-pin cordsets, PG 9 Threads	**Female**  **Male** 
FS ../14.5  **Typical panel cutout is 21 mm**		**FS 4.4/14.5**	105 °C, Solder Cup, mates with 4-pin cordsets, 1/2-14 NPSM Threads	**Male** 
		FS 4.5/14.5	105 °C, Solder Cup, mates with 5-pin cordsets, 1/2-14 NPSM Threads	**Male** 

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Receptacles, with Front Lock Nut

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2 A (6 pole)

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKD ..*  **Typical panel cutout is 15.2 mm**	**FKD 4.4-***	**FSD 4.4-***	4x22 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Female  Male 
	FKD 4.5-*	**FSD 4.5-***	5x22 AWG, 105 °C, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female 
	FKD 4.5-*/S653	**FSD 4.5-*/S653**	4x22 AWG, Drain, 105 °C, 5.1 mm OD, mates with 5-pin cordsets, 4 Conductors PVC foil Shielded with Drain Wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	Male 
FSD ..-*  **Typical panel cutout is 15.2 mm**	**FKD 6-***	**FSD 6-***	6x24 AWG, 105 °C, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 

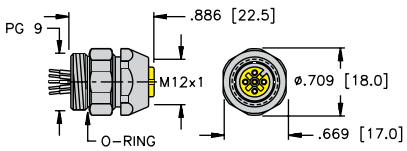
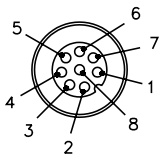
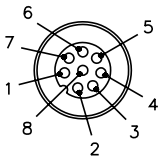
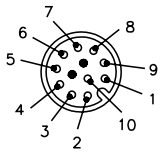
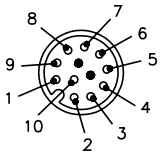
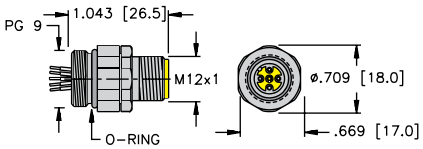
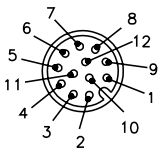
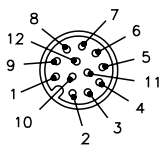
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSD.."; "FSDV.." indicates 316 stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Wire Receptacles, with Front Lock Nut

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKD ..*  **Typical panel cutout is 15.2 mm**	**FKD 8-***	**FSD 8-***	8x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 
	FKD 10-*	**FSD 10-***	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	**Female**  **Male** 
FSD ..-*  **Typical panel cutout is 15.2 mm**	**FKD 12-***	**FSD 12-***	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	**Female**  **Male** 

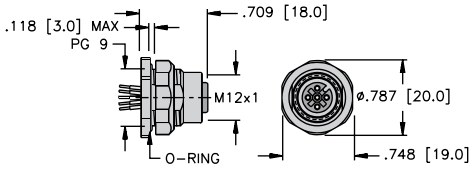
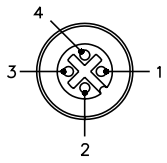
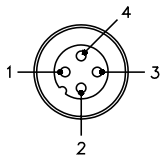
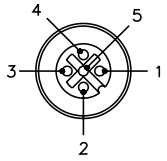
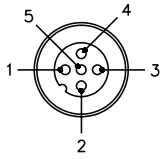
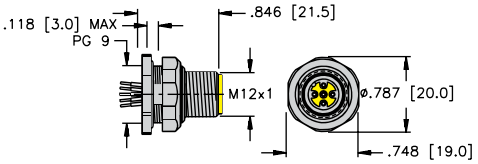
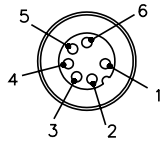
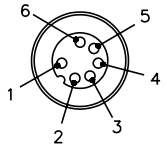
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSD.."; "FSDV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Receptacles, Rear Mount with Leads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2A (6 pole)

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKFD ..  Typical panel cutout is 15.3 x 14 mm	**FKFD 4.4-***	**FSFD 4.4-***	4x22 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Female  Male 
	FKFD 4.4-*/S621	**FSFD 4.4-*/S621**	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4	
	FKFD 4.5-*	**FSFD 4.5-***	5x22 AWG, 105 °C, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Female  Male 
	FKFD 4.5-*/S653	**FSFD 4.5-*/S653**	4x22 AWG, Drain, 105 °C, 5.1 mm OD, mates with 5-pin cordsets, 4 Conductors PVC Foil Shielded with Drain Wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	
FSFD ..*  Typical panel cutout is 15.3 x 14 mm	**FKFD 6-***	**FSFD 6-***	6x24 AWG, 105 °C, mates with 6-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	Female  Male 

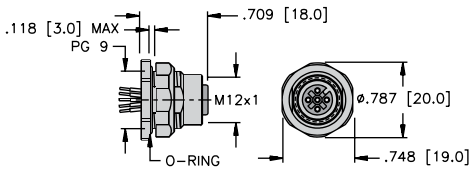
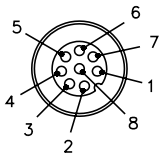
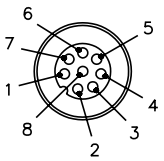
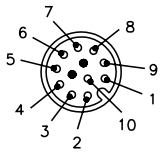
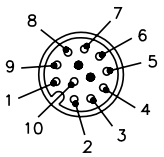
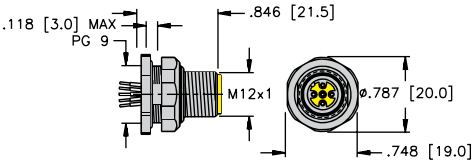
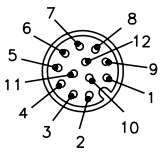
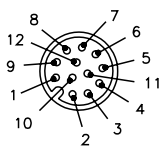
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSFD..."; "FSFDV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6, 8, 10 and 12-Wire Receptacles, Rear Mount with Leads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 60 VAC/75 VDC, 2 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKFD ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFD 8-***	**FSFD 8-***	8x24 AWG, 105 °C, mates with 8-pin cordsets, CSA Approved	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	Female  Male 
	FKFD 8-*/S1505	**FSFD 8-*/S1505**	8x26 AWG, 105 °C, mates with 8-pin cordsets		
	FKFD 10-*	**FSFD 10-***	10x24 AWG, 105 °C, mates with 10-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN	Female  Male 
FSFD ..*  **Typical panel cutout is 15.3 x 14 mm**	**FKFD 12-***	**FSFD 12-***	12x24 AWG, 105 °C, mates with 12-pin cordsets	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. OG 10. TN 11. BK 12. VT	Female  Male 

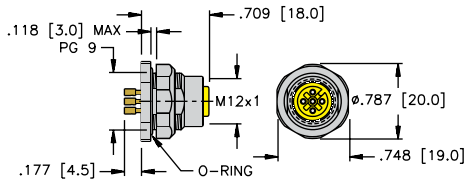
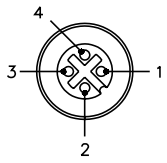
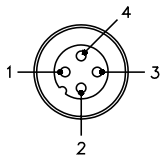
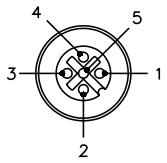
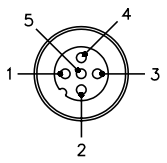
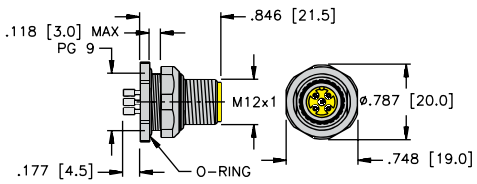
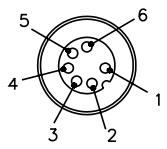
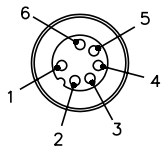
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSFD.."; "FSFDV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Receptacles, Rear Mount with Solder Cups

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2 A (6 pole)

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFDL ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFDL 4.4**	**FSFDL 4.4**	Accepts 18 AWG max Leads, 105 °C, mates with 4-pin cordsets	**Female**  **Male** 
	FKFDL 4.5	**FSFDL 4.5**	Accepts 18 AWG max Leads, 105 °C, mates with 5-pin cordsets	**Female**  **Male** 
FSFDL ..-*  **Typical panel cutout is 15.3 x 14 mm**	**FKFDL 6**	**FSFDL 6**	Accepts 22 AWG max Leads, 105 °C, mates with 6-pin cordsets	**Female**  **Male** 

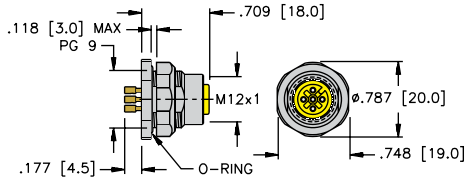
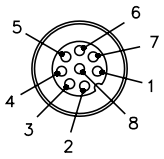
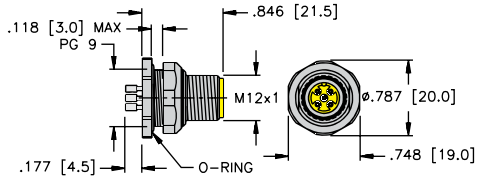
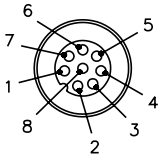
Standard housing material is nickel plated brass "FSFDL.."; "FSFDLV.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8, 10 and 12-Pin Receptacles, Rear Mount with Solder Cups

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **60 VAC/75 VDC, 2 A**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFDL ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFDL 8**	**FSFDL 8**	Accepts 22 AWG Max Leads, 105 °C, Mates with 8-pin Cordsets	**Female** 
FSFDL ..-*  **Typical panel cutout is 15.3 x 14 mm**				**Male** 

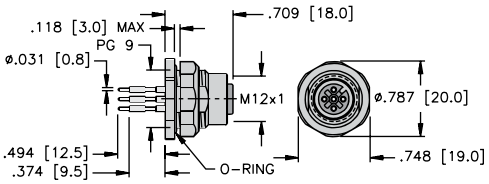
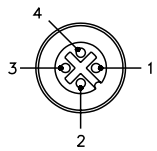
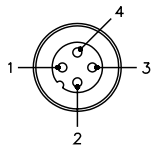
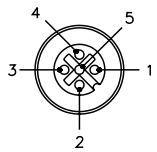
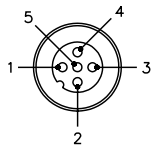
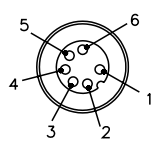
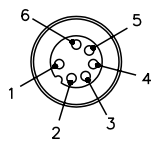
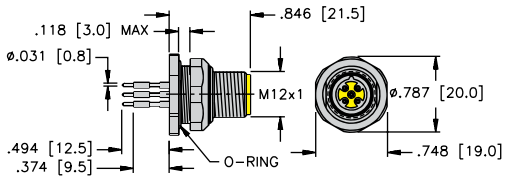
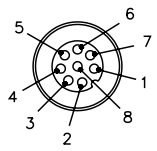
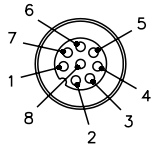
Standard housing material is nickel plated brass "FSFDL.."; "FSFDLV.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4, 5, 6 and 8-Pin Receptacles, Rear Mount with PCB Pins

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC (6 & 8 pole)

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFD ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFD 4.4**	**FSFD 4.4**	105 °C, mates with 4-pin cordsets	**Female**  **Male** 
	FKFD 4.5	**FSFD 4.5**	105 °C, mates with 5-pin cordsets	**Female**  **Male** 
	FKFD 6	**FSFD 6**	105 °C, mates with 6-pin cordsets	**Female**  **Male** 
FSFD ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFD 8**	**FSFD 8**	105 °C, mates with 8-pin cordsets	**Female**  **Male** 

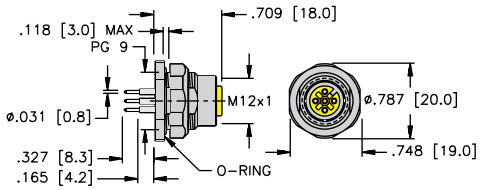
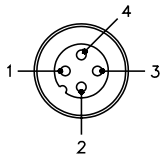
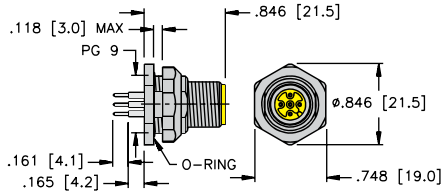
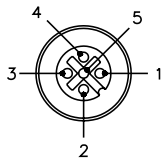
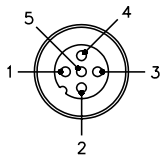
Standard housing material is nickel plated brass "FSFD.."; "FSFDV.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Receptacles, Rear Mount with PCB Pins

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **250 V, 4 A**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFDK ..  **Typical panel cutout is 15.3 x 14 mm**		**FSFDK 4.4**	Nickel plated brass, 105 °C, mates with 4-pin cordsets, short pins	**Male** 
FSFDK ..  **Typical panel cutout is 15.3 x 14 mm**	**FKFDK 4.5**	**FSFDK 4.5**	Nickel plated brass, 105 °C, mates with 5-pin cordsets, short pins	**Female**  **Male** 

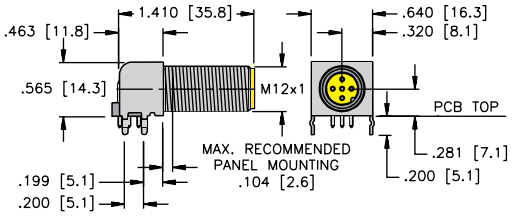
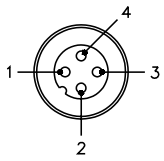
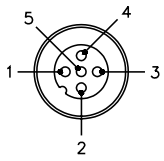
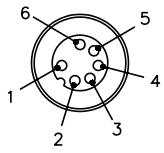
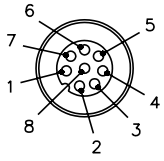
Standard housing material is nickel plated brass "FSFDK.."; "FSFDKV.." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

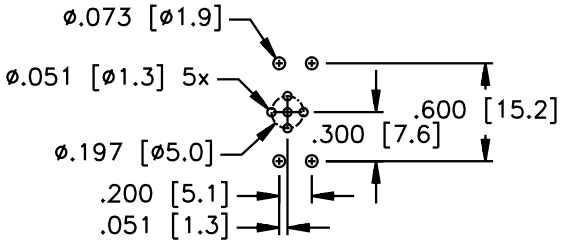
4, 5, 6 and 8-Pin Receptacles, Rear Mount with PCB Pins

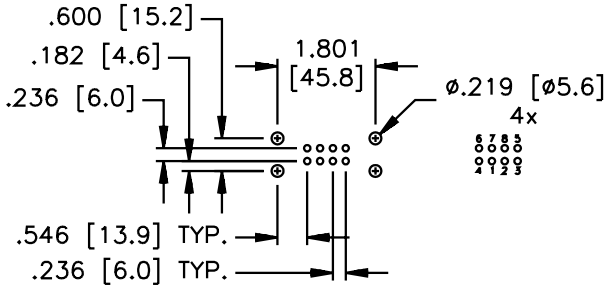
- Male Receptacles
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A (4 & 5 pole)
- 60 VAC/75 VDC, 2 A (6 & 8 pole)

Housing Style	Male Part Number	Features	Pinout
WFS-PCB .. 	**WFS 4.4-PCB**	105 °C, mates with 4-pin cordsets, nickel plated brass housing material	Male 
	WFS 4.5-PCB	105 °C, mates with 5-pin cordsets, nickel plated brass housing material	Male 
	WFS 6-PCB	105 °C, mates with 6-pin cordsets, nickel plated brass housing material	Male 
	WFS 8-PCB	105 °C, mates with 8-pin cordsets, nickel plated brass housing material	Male 

We reserve the right to make technical alterations without prior notice.

WFS PCB Layout

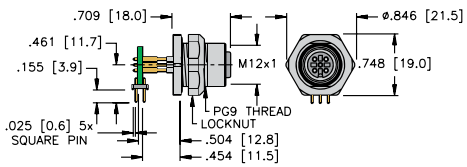
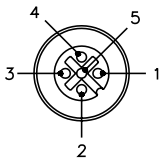
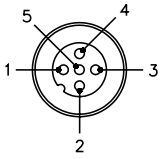
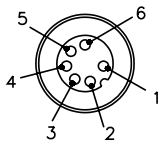
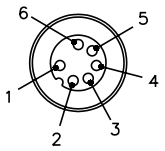
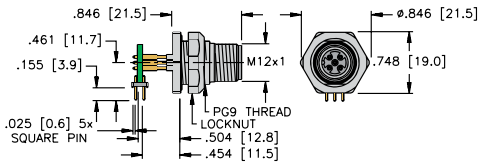
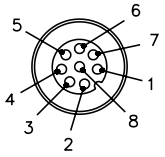
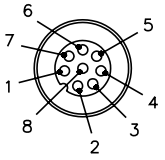




Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

5, 6 and 8-Pin Receptacles, Rear Mount PCB with Header Pins

- NEMA 1, 3, 4, 6 P
- IEC IP 67 Protection
- 250 V, 4 A (5 pole)
- 60 VAC/75 VDC (6 & 8 pole)

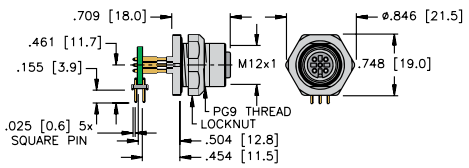
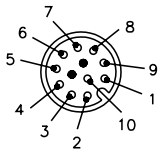
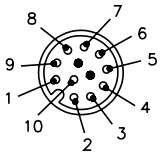
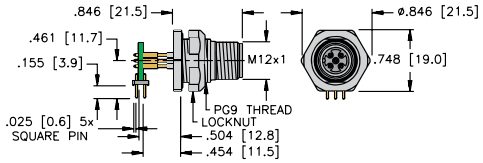
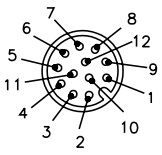
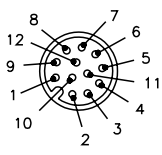
Housing Style	Female Part Number	Male Part Number	Features	Pinout
WKFD ..PCBH  **Typical panel cutout is 15.3 x 14 mm**	**WFKD 4.5-PCBH**	**WFSD 4.5-PCBH**	105 °C, mates with 5-pin cordsets, nickel plated brass housing material	**Female**  **Male** 
	WFKD 6-PCBH	**WFSD 6-PCBH**	105 °C, mates with 6-pin cordsets, nickel plated brass housing material	**Female**  **Male** 
WFSD ..PCBH  **Typical panel cutout is 15.3 x 14 mm**	**WFKD 8-PCBH**	**WFSD 8-PCBH**	105 °C, mates with 8-pin cordsets, nickel plated brass housing material	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

10 and 12-Pin Receptacles, Rear Mount PCB with Header Pins

- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 60 VAC/75 VDC, 2 A

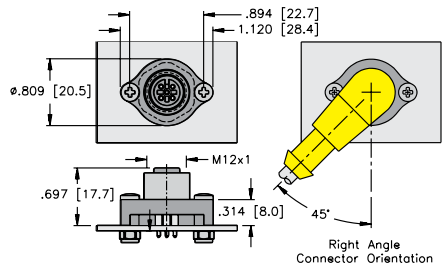
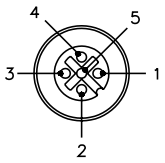
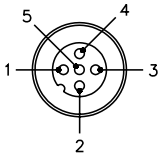
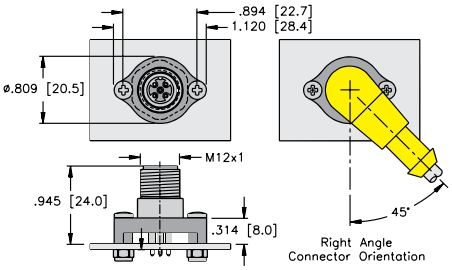
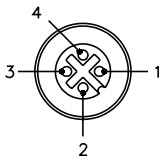
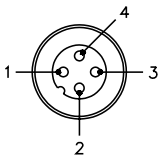
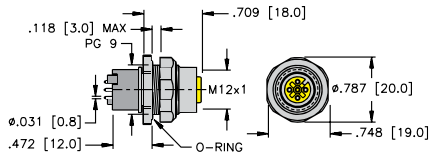
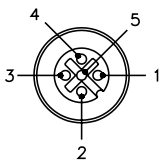
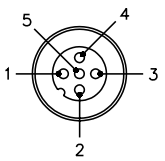
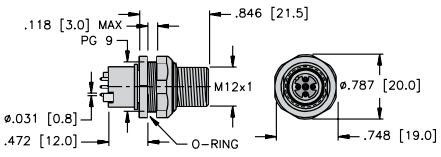
Housing Style	Female Part Number	Male Part Number	Features	Pinout
WKFD ..PCBH  **Typical panel cutout is 15.3 x 14 mm**	**WFKD 10-PCBH**	**WFSD 10-PCBH**	105 °C, mates with 10-pin cordsets, nickel plated brass housing material	**Female**  **Male** 
WFSD ..PCBH  **Typical panel cutout is 15.3 x 14 mm**	**WFKD 12-PCBH**	**WFSD 12-PCBH**	105 °C, mates with 12-pin cordsets ,nickel plated brass housing material	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

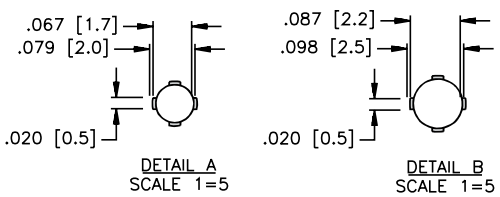
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

4 and 5-Pin Circuit Board Mounted Receptacles

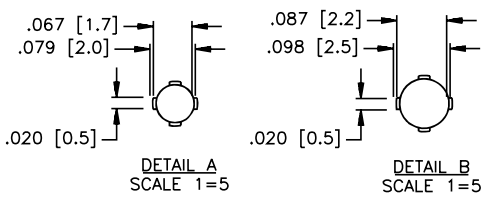
- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FK .. PCB  	FK 4.5-PCB	FS 4.5-PCB	105 °C, mates with 5-pin cordsets, nickel plated brass housing material	Female  Male 
FS . .-PCB  	FKFDH 4.4	FSFDH 4.4	105 °C, mates with 4-pin cordsets, separate housing and contact carrier, nickel plated brass housing material	Female  Male 
FKFDH ..  **Typical panel cutout is 15.3 x 14 mm**	FKFDH 4.5	FSFDH 4.5	105 °C, mates with 5-pin cordsets, separate housing and contact carrier, nickel plated brass housing material	Female  Male 
FSFDH ..  **Typical panel cutout is 15.3 x 14 mm**				

FKFDH - Detail



FSFDH - Detail

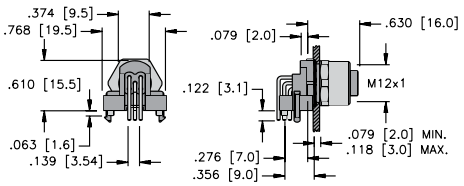
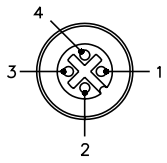
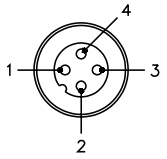
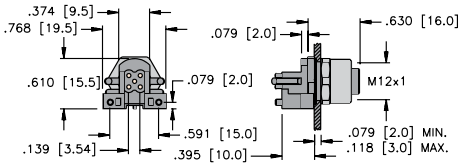
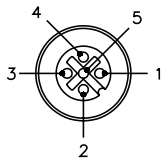
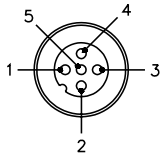
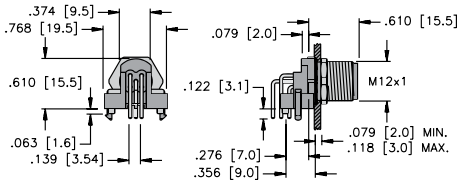
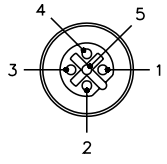


We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Circuit Board Mounted Receptacles

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

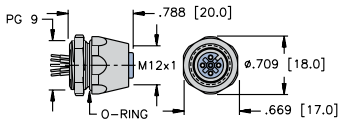
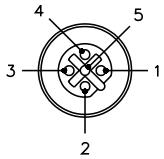
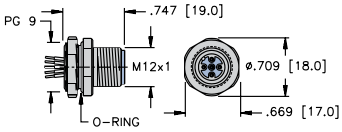
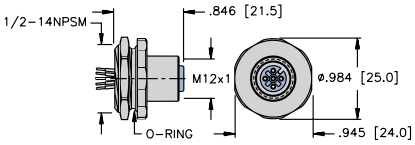
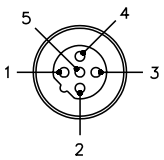
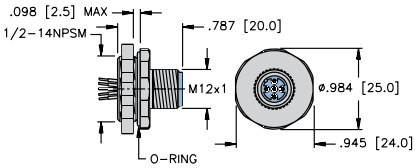
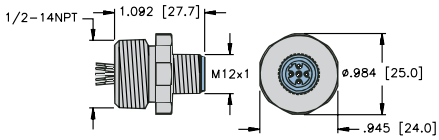
Housing Style	Female Part Number	Male Part Number	Features	Pinout
WFKFDH ..  **Typical panel cutout is 12 mm**	**WFKFDH 4.4**	**WFSFDH 4.4**	105 °C, mates with 4-pin cordsets, separate housing and contact carrier, right angle, nickel plated brass housing material	**Female**  **Male** 
FKFDHOW ..  **Typical panel cutout is 12 mm**	**WFKFDH 4.5**	**WFSFDH 4.5**	105 °C, mates with 5-pin cordsets, separate housing and contact carrier, right angle, nickel plated brass housing material	**Female**  **Male** 
WFSFDH ..  **Typical panel cutout is 12 mm**	**FKFDHOW 4.5**		105 °C, mates with 5-pin cordsets, separate housing and contact carrier, reverse key, nickel plated brass housing material	**Female** 

We reserve the right to make technical alterations without prior notice.

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

5-Wire Receptacles, Front Mount, Reverse Key

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKW ..*  **Typical panel cutout is 15.2 mm**	**FKW 4.5-***	**FSW 4.5-***	4x22, 1x20 AWG, 105 °C, mates with 5-pin Reverse Key Cordset	1. BN 2. WH 3. BU 4. BK 5. GN/YE	**Female** 
FSW ..  **Typical panel cutout is 15.2 mm**	**FKW 4.5-*/S653**	**FSW 4.5-*/S653**	4x22 AWG, Drain 105 °C, 5.1 mm OD, mates with 5-pin Reverse Key Cordset, 4 Conductors PVC Foil Shielded with Drain Wire to pin 5	1. BN 2. WH 3. BU 4. BK 5. Drain	
FKW ..14.5  **Typical panel cutout is 21 mm**	**FKW 4.5-*/14.5**	**FSW 4.5-*/14.5**	4x22, 1x20 AWG 105 °C, mates with 5-pin Reverse Key Cordset	1. BN 2. WH 3. BU 4. BK 5. GN/YE	**Male** 
FSW ..14.5  **Typical panel cutout is 21 mm**					
FSW ..14.5/NPT  **Typical panel cutout is 22.5 mm**	**FKW 4.5*/14.5/NPT**	**FSW 4.5-*/14.5/NPT**	4x22, 1x20 AWG 105 °C, mates with 5-pin Reverse Key Cordset		

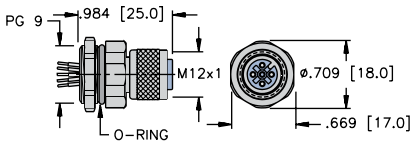
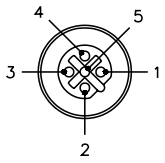
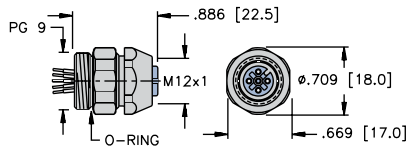
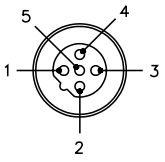
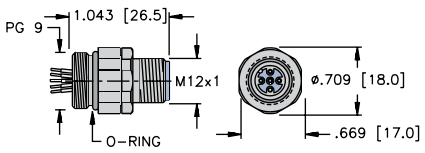
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSW.."; "FSWV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5-Wire Receptacles, Front Mount, Reverse Key

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKMW ..  **Typical panel cutout is 15.2 mm**	**FKMW 4.5-***		4x22, 1x20 AWG, 105 °C, mates with 5-pin Reverse Key Cordset, PG 9 threads, rotating coupling nut	1. BN 2. WH 3. BU 4. BK 5. GN/YE	**Female** 
FKDW ..  **Typical panel cutout is 15.2 mm**	**FKDW 4.5-***	**FSDW 4.5-***	4x22, 1x20 AWG AWM PVC, 105 °C, mates with 5-pin Reverse Key Cordset, PG 9 threads	1. BN 2. WH 3. BU 4. BK 5. GN/YE	**Male** 
FSDW ..  **Typical panel cutout is 15.2 mm**					

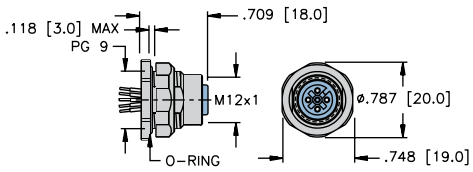
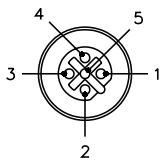
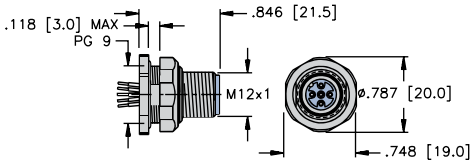
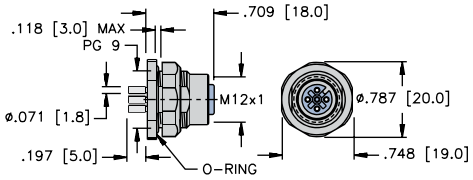
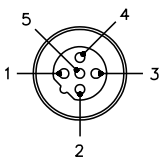
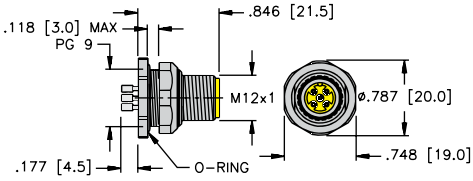
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "FSW.."; "FSWV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5-Wire Receptacles, Rear Mount, Reverse Key

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKFDW ..  **Typical panel cutout is 15.3 x 14.0 mm**	**FKFDW 4.5-***	**FSFDW 4.5-***	5x22 AWG, 105 °C, mates with 5-pin Reverse Key Cordset, leads, UL Listed, CSA Approved	1. BN 2. WH 3. BU 4. BK 5. GN/YE	**Female** 
FSFDW ..  **Typical panel cutout is 15.3 x 14.0 mm**					
FKFDLW ..  **Typical panel cutout is 15.3 x 14.0 mm**	**FKFDLW 4.5**	**FSFDLW 4.5**	Accepts 20 AWG Max Leads, 105 °C, mates with 5-pin Reverse Key Cordset, solder cup	N/A	**Male** 
FSFDLW ..  **Typical panel cutout is 15.3 x 14.0 mm**					

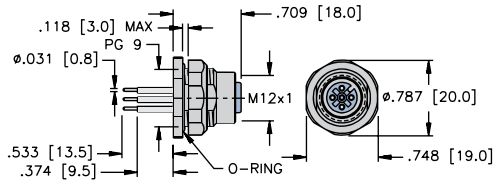
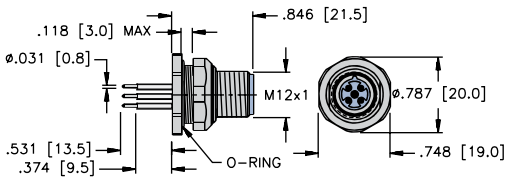
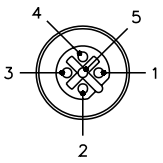
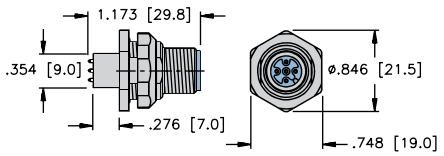
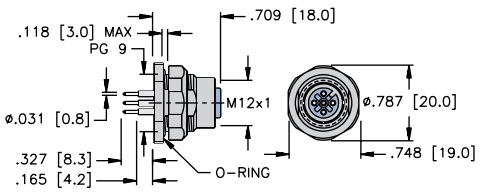
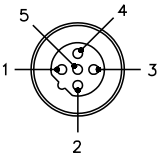
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5-Pin Receptacles, Rear Mount, Reverse Key, With PCB Pins

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFDW ..  **Typical panel cutout is 15.3 x 14.0 mm** FSFDW ..  **Typical panel cutout is 15.3 x 14.0 mm**	**FKFDW 4.5**	**FSFDW 4.5**	105 °C, mates with 5-pin Reverse Key Cordsets, PCB pins	**Female** 
FSFDKW ..  **Typical panel cutout is 15.3 x 14.0 mm** FKFDKW ..  **Typical panel cutout is 15.3 x 14.0 mm**	**FKFDKW 4.5**	**FSFDKW 4.5**	105 °C, mates with 5-pin Reverse Key Cordsets, short PCB pins	**Male** 

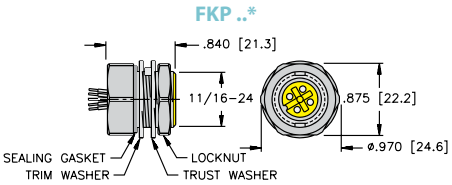
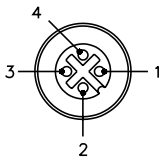
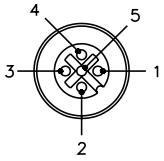
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Wire Receptacles, Back Panel Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Features	Pinout	
FKP ..*  	**FKP 4.4-***	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. BN 2. WH 3. BU 4. BK	Female 
	FKP 4.4-*/S621	4x18 AWG, 105 °C, mates with 4-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4	
	FKP 4.5-*	5x18 AWG, 105 °C, mates with 5-pin cordsets	1. BN 2. WH 3. BU 4. BK 5. GY	Male 
	FKP 4.5-*/S621	5x18 AWG, 105 °C, mates with 5-pin cordsets	1. GY1 2. GY2 3. GY3 4. GY4 5. GY5	

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

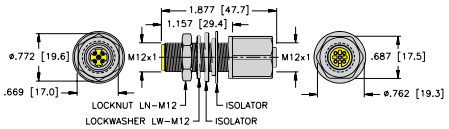
We reserve the right to make technical alterations without prior notice.

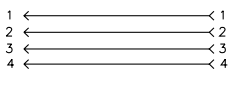
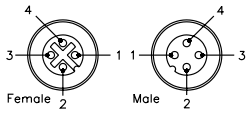
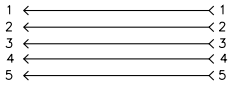
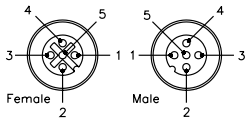
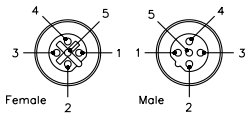
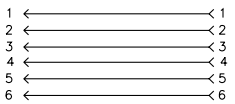
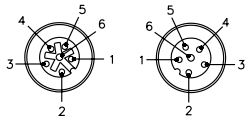
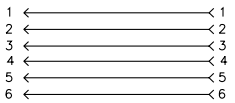
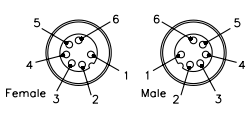
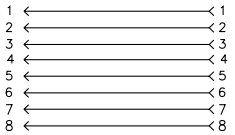
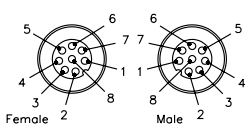
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

4, 5, 6 and 8-Pin Feed-Thru Receptacles

- **Female to Male Receptacles**
- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**

FKFS ..M12



Housing Style	Part Number	Features	Pinout	
	FK FS 4.4/M12	4-conductor, 80 °C, 150 V, 4 A, mates with 4-pin cordsets		
	FK FS 4.5/M12	5-conductor, 80 °C, 150 V, 4 A, mates with 5-pin cordsets		
	FKW FSW 4.5/M12	5-conductor, 80 °C, 150 V, 4 A, mates with 5-pin Reverse Key cordsets		
	FK FS 4.6/M12	6-conductor, 80 °C, 36 V, 1.5 A, mates with 6-pin cordsets		
	FK FS 6/M12	6-conductor, 80 °C, 36 V, 1.5 A, mates with 6-pin cordsets		
	FK FS 8/M12	8-conductor, 80 °C, 36 V, 1.5 A, mates with 8-pin cordsets		

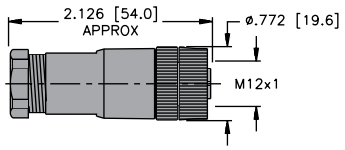
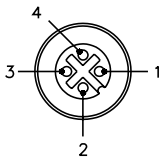
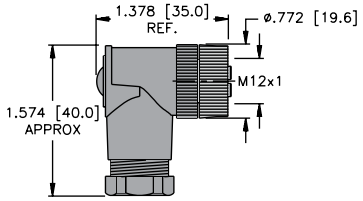
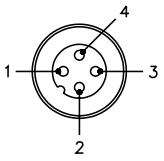
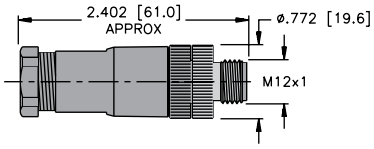
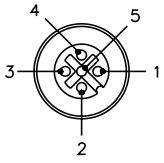
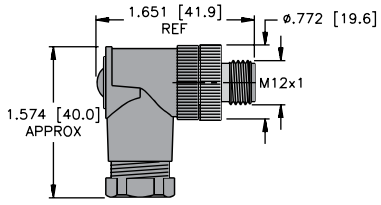
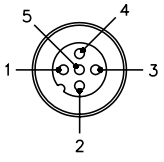
Standard housing material is nickel plated brass “FK FS..”; “FKV FSV..” indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Field Wireable Connectors, Standard Key

- **IEC IP67 Protection**

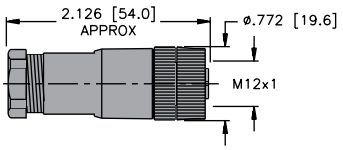
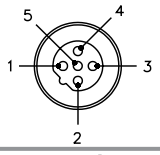
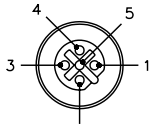
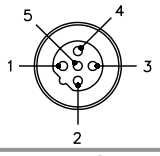
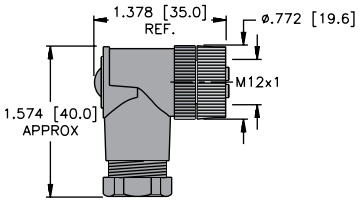
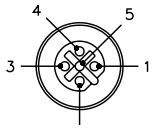
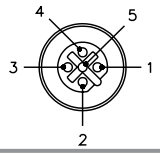
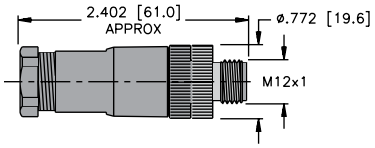
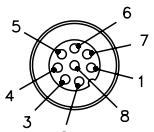
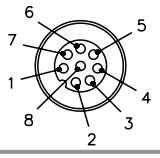
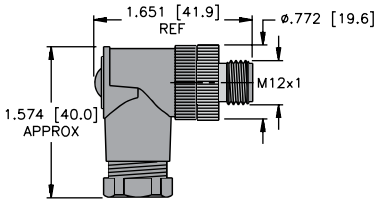
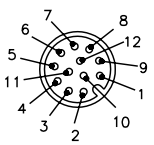
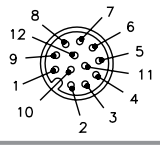
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81.. 	**B 8141-0** **B 8241-0**	**BS 8141-0** **BS 8241-0**	PBT, Black, PG 7 cable gland, accepts 4-6 mm cable diameter, screw terminals, accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, mates with standard key 4-pin cordsets and receptacles	**Female** 
B 82.. 	**B 8141-0/PG 9** **B 8241-0/PG 9**	**BS 8141-0/PG 9** **BS 8241-0/PG 9**	PBT, Black, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, mates with standard key 4-pin cordsets and receptacles	**Male** 
BS 81.. 	**B 8151-0/PG 9** **B 8251-0/PG 9**	**BS 8151-0/PG 9** **BS 8251-0/PG 9**	PBT, Black, PG 9 cable gland, accepts 4-8 mm cable diameter, screw terminals, accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, mates with standard key 5-pin cordsets and receptacles	**Female** 
BS 82.. 	**BM 8151-0/PG 9**		PBT, Black, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, accepts up to 18 AWG conductors, metal coupling nut, 85 °C, 60 V, 4 A, mates with standard key 5-pin cordsets and receptacles	**Male** 

We reserve the right to make technical alterations without prior notice.

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

4, 5, 8 and 12-Pin Field Wireable Connectors, Standard and Reverse Key

- **IEC IP67 Protection**

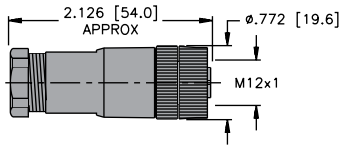
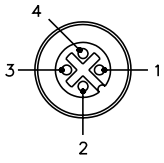
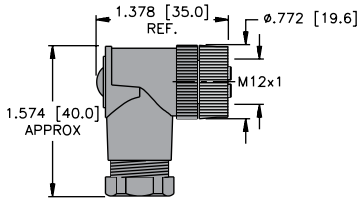
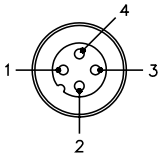
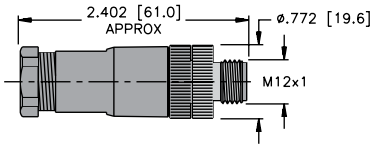
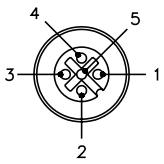
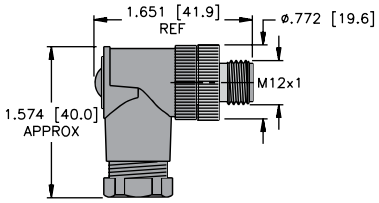
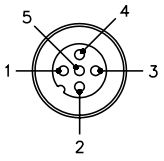
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81.. 		**BS 8157-0/PG 9**	PBT, Black, PG 9 cable gland accepts 6-8 mm cable diameter , spring clamp accepts up to 20 AWG conductors, 85 °C, 125 V, 4 A, Mates with standard key 5-pin cordsets and receptacles, spring clamp	**Male** 
	BWS 8141-0	**BSWS 8141-0** **BSWS 8241-0**	PBT, Black, PG 9 cable gland accepts 6-8 mm cable diameter, screw terminals accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, mates with reverse key 4-pin cordsets and receptacles	**Female**  **Male** 
B 82.. 	**BWS 8151-0** **BWS 8251-0**	**BSWS 8151-0** **BSWS 8251-0**	PBT, Black, PG 9 cable gland accepts 6-8 mm cable diameter , screw terminals accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, mates with reverse key 5-pin cordsets and receptacles	**Female**  **Male** 
BS 81.. 	**B 8181-0** **B 8281-0**	**BS 8181-0** **BS 8281-0**	Nylon, Black, PG 9 cable gland accepts 6-8 mm cable diameter , screw terminals accepts up to 18 AWG conductors, 85 °C, 60 VAC/75 VDC, 2 A, mates with standard key 8-pin cordsets and receptacles	**Female**  **Male** 
BS 82.. 	**B 81121-0/PG 9**	**BS 81121-0/PG 9**	Nylon, Black, PG 9 cable gland accepts 4-8 mm cable diameter , solder cups accept up to 24 AWG conductors, 85 °C, 30 V, 1 A, mates with standard key 12-pin cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

4 and 5-Pin Field Wireable Connectors, Standard with Labels

- **IEC IP67 Protection**

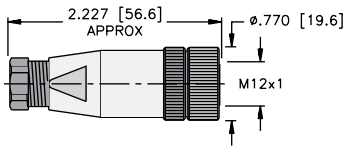
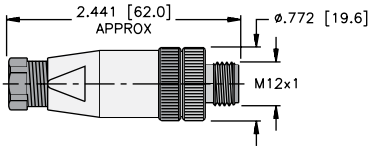
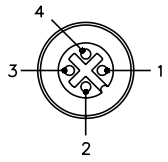
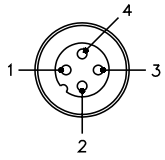
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81.. 	**B 8141-0/LABEL** **B 8241-0/LABEL**	**BS 8141-0/LABEL** **BS 8241-0/LABEL**	PBT, Black, PG 7 cable gland accepts 4-6 mm cable diameter, screw terminals accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, mates with standard key 4-pin cordsets and receptacles, color coded & numbered pins	**Female** 
B 82.. 	**B 8141-0/PG9/LABEL** **B 8241-0/PG9/LABEL**	**BS 8141-0/PG9/LABEL** **BS 8241-0/PG9/LABEL**	PBT, Black, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, mates with standard key 4-pin cordsets and receptacles, color coded & numbered pins	**Male** 
BS 81.. 	**B 8151-0/PG9/LABEL** **B 8251-0/PG9/LABEL**	**BS 8151-0/PG9/LABEL** **BS 8251-0/PG9/LABEL**	PBT, Black, PG 9 cable gland accepts 4-8 mm cable diameter, screw terminals accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, mates with standard key 5-pin cordsets and receptacles, color coded & numbered pins	**Female** 
BS 82.. 				**Male** 

We reserve the right to make technical alterations without prior notice.

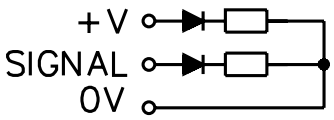
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

4-Pin Field Wireable Connectors with LEDs

- **IEC IP67 Protection**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81..  BS 81..  	**B 8141-P7X2-0**	**BS 8141-P7X2-0**	PBT, Clear, accepts 4-6 mm cable diameter accepts 20-26 AWG (conductor diameter 1-1.6 mm), Insulation Avoidance, 85 °C, 10-30 V, 4 A, mates with standard key 4-pin cordsets and receptacles, 2 LEDs - Signal and Power	**Female**  **Male** 

Wiring Diagram

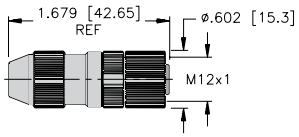
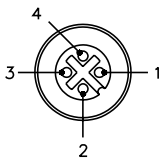
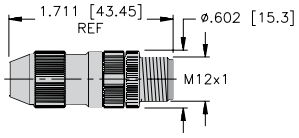
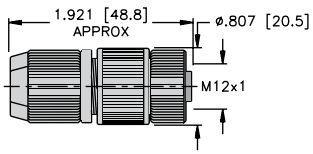
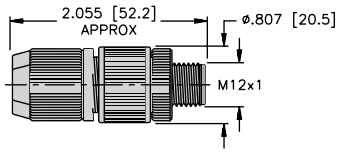
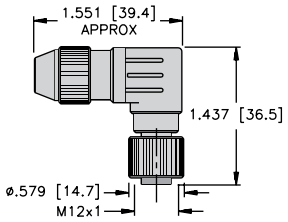
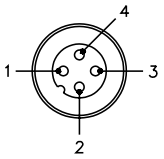
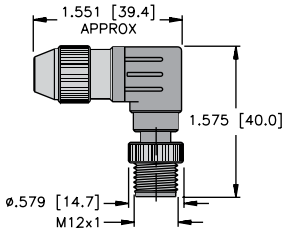


We reserve the right to make technical alterations without prior notice.

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

4-Pin Field Wireable Connectors, IDC

- **Insulation Displacement Technology**
- **No Conductor Stripping Required**
- **IEC IP67 Protection**

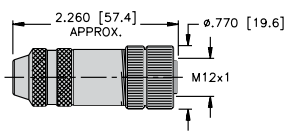
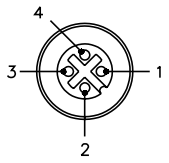
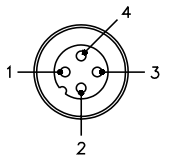
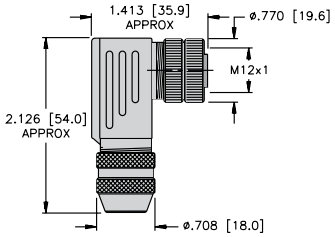
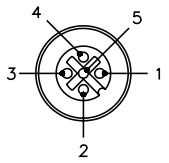
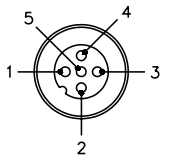
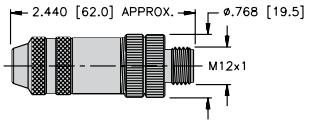
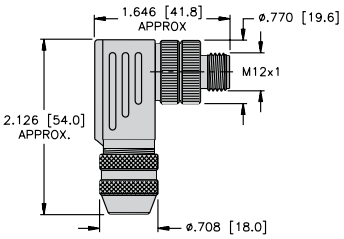
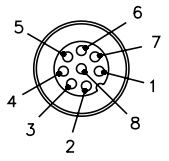
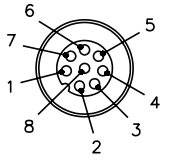
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81.. 	**B 8146-0**	**BS 8146-0**	Nickel Plated Brass, accepts 4-5 mm cable diameter, IDC accepts 26 to 22 AWG conductors, 85 °C, 32 V, 4 A, mates with standard key 4-pin cordsets and receptacles	**Female** 
BS 81.. 				
B 83.. 	**B 8346-0**	**BS 8346-0**	Nickel Plated Brass, accepts 5.5-8.5 mm cable diameter, IDC accepts up to 18 AWG conductors, 85 °C, 50 V, 6 A, mates with standard key 4-pin cordsets and receptacles	
BS 83.. 				
B 82.. 	**B 8246-0**	**BS 8246-0**	Nickel Plated Brass, accepts 4-5 mm cable diameter, IDC accepts 26 to 22 AWG conductors, 85 °C, 32 V, 4 A, mates with standard key 4-pin cordsets and receptacles	**Male** 
BS 82.. 				

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 8-Pin Field Wireable Connectors, Shielded, Screw Terminals

- **Screw Terminals**
- **No Soldering Required**
- **IEC IP67 Protection**

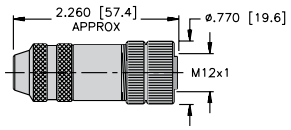
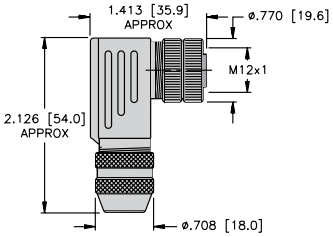
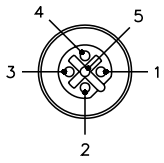
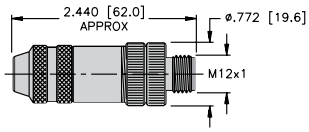
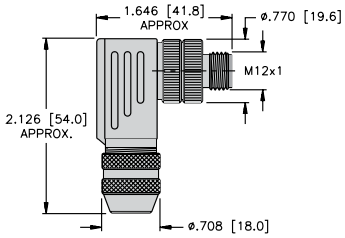
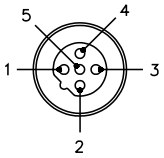
Housing Style	Female Part Number	Male Part Number	Features	Pinout
CMB 81.. 	**CMB 8141-0** **CMB 8241-0**	**CMBS 8141-0** **CMBS 8241-0**	Nickel Plated Brass, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminal accepts up to 18 AWG conductors, 85 °C, 250 V, 4 A, Metal, fully shielded Mates with standard key 4-pin cordsets and receptacles	**Female**  **Male** 
CMB 82.. 	**CMB 8151-0** **CMB 8251-0**	**CMB 8151-0** **CMB 8251-0**	Nickel Plated Brass, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminal, accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, metal, fully shielded Mates with standard key 5-pin cordsets and receptacles	**Female**  **Male** 
CMBS 81.. 				
CMBS 82.. 	**CMB 8181-0**	**CMBS 8181-0**	Nickel Plated Brass, PG 9 cable gland accepts 6-8 mm cable diameter, screw terminal accepts up to 18 AWG conductors, 85 °C, 60 V, 2 A, metal, fully shielded, mates with standard key 8-pin cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

5-Pin Field Wireable Connectors, Reverse Key

- **IEC IP67 Protection**

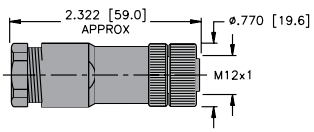
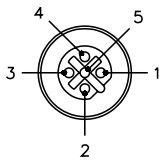
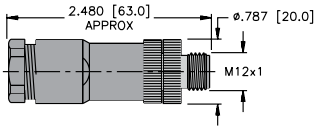
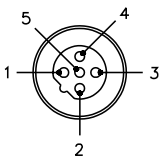
Housing Style	Female Part Number	Male Part Number	Features	Pinout
BMWS 81..  **BMWS 82..** 	**BMWS 8151-0/9**	**BMSWS 8151-0/9**	Nickel Plated Brass, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminal, accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, Metal, fully shielded, mates with reverse key 5-pin cordsets and receptacles	**Female** 
BMSWS 81..  **BMSWS 82..** 	**BMWS 8251-0/9**	**BMSWS 8251-0/9**	Nickel Plated Brass, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminal, accepts up to 18 AWG conductors, 85 °C, 60 V, 4 A, metal, fully shielded, mates with reverse key 5-pin cordsets and receptacles	**Male** 

We reserve the right to make technical alterations without prior notice.

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

5-Pin Field Wireable Splitter

- **2 into 1, Parallel, AND Function etc.**
- **IEC IP67 Protection**

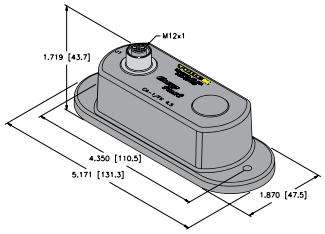
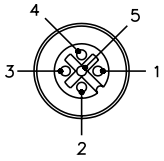
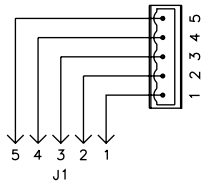
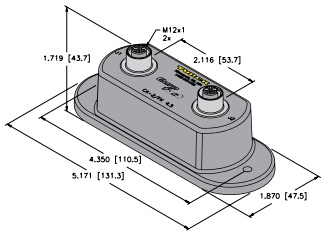
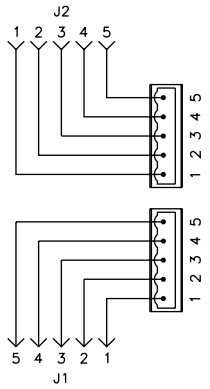
Housing Style	Female Part Number	Male Part Number	Features	Pinout
DBK(S).. 	**DBK 8151-0**	**DBS 8151-0**	Nylon, Black, Nylon coupling nut, accepts 2x3 mm or 2x5 mm cable diameters, screw terminals, accepts up to 18 AWG conductors, 85 °C, 125 V, 4 A, splitter, accepts 2 cables and converts to 1	**Female** 
DBK(S)M.. 	**DBKM 8151-0**	**DBSM 8151-0**	Nylon, nickel plated brass, coupling nut, accepts 4-5 mm cable diameters, screw terminals, accepts up to 18 AWG, conductors, 85 °C, 125 V, 4 A, splitter, accepts 2 cables and converts to 1, straight male connector	**Male** 

We reserve the right to make technical alterations without prior notice.

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

Conduit Adapters

- **Attaches to standard Crouse-Hinds 3/4" Form 8 Conduit Bodies for transition to 5-wire Eurofast® Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws included**
- **IP67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips accept up to 12 AWG Wires**

Housing Style	Part Number	Features	Pinout	Wiring Diagram
	**CA-1/FK 4.5**	Nylon housing, 80 °C, 250 V, 4 A, attaches to standard conduit body for transition to 5-wire Eurofast connector		
	**CA-2/FK 4.5**			

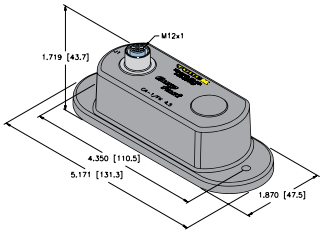
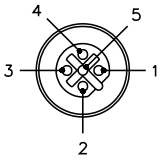
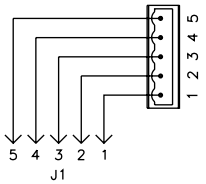
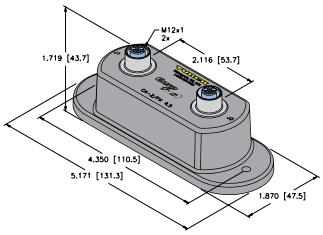
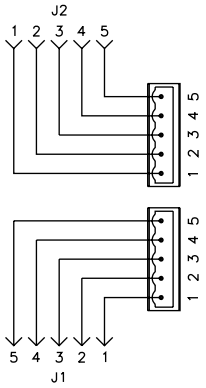
Standard receptacle housing material is nickel plated brass "CA-1(2)/FK 4.5"; "CA-1(2)/FKV 4.5" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Conduit Adapters, Reverse Key Connectors

- **Attaches to standard Crouse-Hinds 3/4" Form 8 Conduit Bodies for transition to 5-wire Eurofast Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws included**
- **IP67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips accept up to 12 AWG Wires**

Housing Style	Part Number	Features	Pinout	Wiring Diagram
	**CA-1/FKW 4.5**	Nylon housing, 80 °C, 250 V, 4 A, attaches to standard conduit body for transition to 5-wire Eurofast, reverse key connector		
	**CA-2/FKW 4.5**			

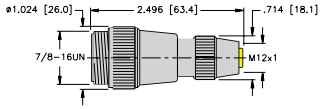
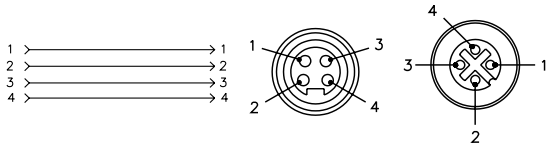
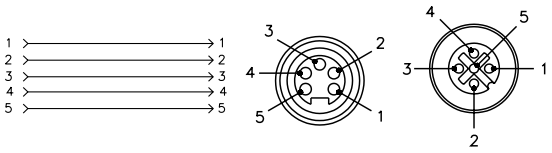
Standard receptacle housing material is nickel plated brass "CA-1(2)/FKW 4.5"; "CA-1(2)/FKWV 4.5" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Adapters

- **Converts Eurofast to Minifast®**
- **Rugged Metal Connector**
- **IP67 Protection**

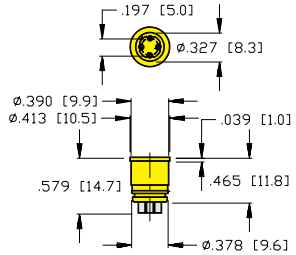
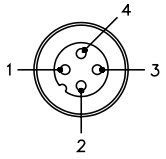
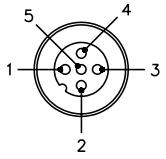
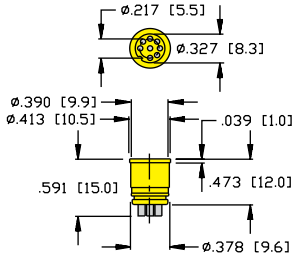
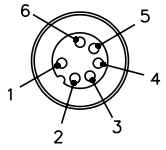
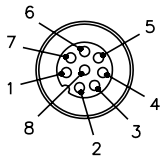
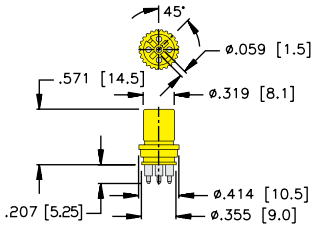
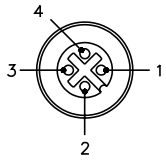
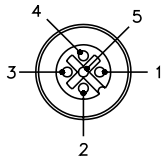
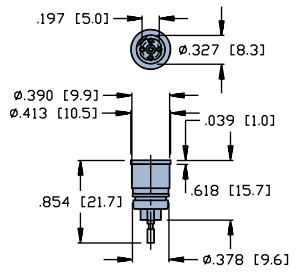
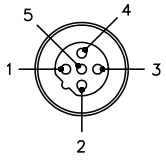
Housing Style	Part Number	Features	Pinout
	**RSM 40-FK 4.4**	80 °C, 250 V, 4 A, female Eurofast to male Minifast adapter, 4-pin	
	RSM 50-FK 4.5	80 °C, 250 V, 4 A, female Eurofast to male Minifast adapter, 5-pin	

We reserve the right to make technical alterations without prior notice.

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

Connector Inserts

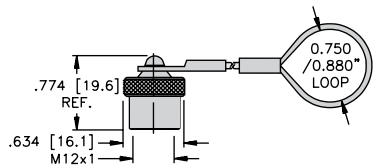
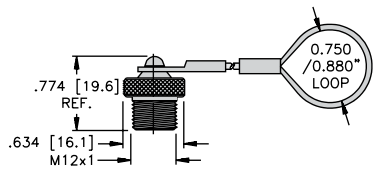
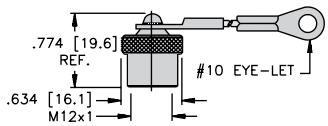
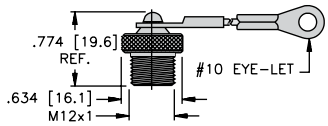
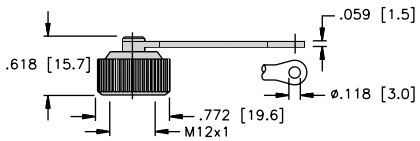
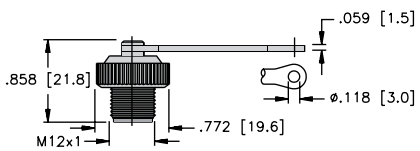
- For use in Sensors and Custom Receptacles
- Available with Solder Cups and PCB Pins
- Compatible with standard Eurofast Cordsets

Housing Style	Part Number	Features	Pinout
	**EWAS 4.4 (10/BAG)**	Nylon or PUR, accepts up to 20 AWG, 250 V, 4 A, up to 4 conductors, DC applications	
	EWAS 4.5 (10/BAG)	Nylon or PUR, accepts up to 20 AWG, 250 V, 4 A, up to 5 conductors, DC applications	
	**EWAS 6 (10/BAG)**	Nylon or PUR, accepts up to 24 AWG, 30 VAC/36 VDC, 4 A, up to 6 conductors, DC applications	
	EWAS 8 (10/BAG)	Nylon or PUR, accepts up to 24 AWG, 30 VAC/36 VDC, 1.5 A, up to 8 conductors, DC applications	
	**EWAK 4 PCB (10/BAG)**	Nylon or PUR, 250 V, 4 A, up to 3 conductors, DC applications	
	EWAK 4.4 PCB (10/BAG)	Nylon or PUR, 250 V, 4 A, up to 4 conductors, DC applications	
	EWAK 4.5 PCB (10/BAG)	Nylon or PUR, 250 V, 4 A, up to 5 conductors, DC applications	
	**EWASW 4.5 (10/BAG)**	Reverse key, nylon or PUR, accepts up to 20 AWG, 250 V, 4 A, up to 5 conductors, DC applications	

We reserve the right to make technical alterations without prior notice.

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

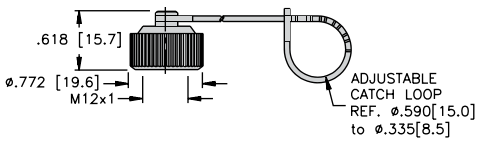
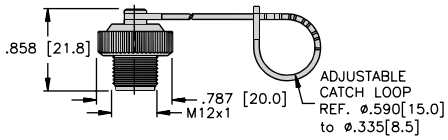
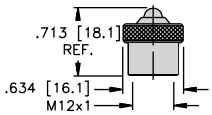
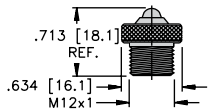
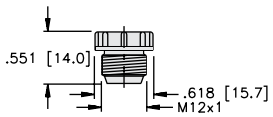
Closure Caps

Drawing	Part Number	Features
	**RK-CC**	Nickel plated brass, M12x1 threads, 6" lanyard, mates to male cordsets and receptacles
	RKV-CC	Stainless steel, M12x1 threads, 6" lanyard, mates to male cordsets and receptacles
	**RS-CC**	Nickel plated brass, M12x1 threads, 6" lanyard, mates to female cordsets and receptacles
	RSV-CC	Stainless steel, M12x1 threads, 6" lanyard, mates to female cordsets and receptacles
	**FK-CC**	Nickel plated brass, M12x1 threads, 6" lanyard with eyelet, mates to male cordsets and receptacles
	FKV-CC	Stainless steel, M12x1 threads, 6" lanyard with eyelet, mates to male cordsets and receptacles
	**FS-CC**	Nickel plated brass, M12x1 threads, 6" lanyard with eyelet, mates to female cordsets and receptacles
	FSV-CC	Stainless steel, M12x1 threads, 6" lanyard with eyelet, mates to female cordsets and receptacles
	**FKK-CC**	Plastic, M12x1 threads, 3" lanyard with eyelet, mates to male cordsets and receptacles
	**FSK-CC**	Plastic, M12x1 threads, 3" lanyard with eyelet, mates to female cordsets and receptacles

We reserve the right to make technical alterations without prior notice.

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

Closure Caps

Drawing	Part Number	Features
	**RKK-CC**	Plastic, M12x1 threads, mates to male cordsets and receptacles
	**RSK-CC**	Plastic, M12x1 threads, mates to female cordsets and receptacles
	**RK-MC**	Nickel plated brass, M12x1 threads, no lanyard, mates to male cordsets and receptacles
	RKV-MC	Stainless steel, M12x1 threads, no lanyard, mates to male cordsets and receptacles
	**RS-MC**	Nickel plated brass, M12x1 threads, no lanyard, mates to female cordsets and receptacles
	RSV-MC	Stainless steel, M12x1 threads, no lanyard, mates to female cordsets and receptacles
	**VZ3 (8/BAG)**	Nylon, mates to VB2 series junction boxes and female cordsets and receptacles

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	E2
Cordsets	E4
Receptacles	E8
Field Wireables	E16
Adapters	E17

Features

- 2 to 6 pin
- Up to 4 Amp, 250 Volt rated
- IEC IP67 protection
- NEMA 6P rated
- Low current AC applications

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

Cordset Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

WKB		V	3	T	-	*	/S..

1/2" Microfast Cordset

KB	=	straight female connector
WKB	=	right angle female connector
SB	=	straight male connector
WSB	=	right angle male connector

Body Style

(blank)	=	standard plug body
E	=	large plug body

Coupling Nut Material

(blank)	=	nickel plated brass
V	=	stainless steel
K	=	nylon

Number of Wires / AWG / Color Codes

2	=	BN, BU
3	=	GN, RD/BK, RD/WH
4	=	RD/BK, RD/WH, RD, GN
5	=	RD/WH, RD, GN, RD/YE, RD/BK
6	=	RD/WH, RD, GN, RD/YE, RD/BK, RD/BU

AWG sizes depend on body style and "/S" variety

Plug Options

T	=	T barb fitting

Length in Meters

Varieties

(blank)	=	PVC jacket
/S90	=	TPU jacket
/S90-SP	=	TPU coil cord
/S105	=	PVC jacket, mechanical shield (braided)
/S1077	=	silicone tubing
/S1587	=	Weldlife®, weld flash immune
/XOR	=	irradiated PVC jacket
/S ..	=	consult factory, special
/CS ..	=	consult factory, special

Insertion Point of Extension Cable and Second Prefix*

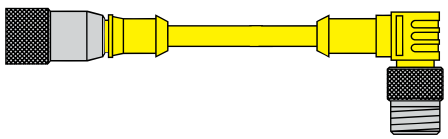
* Female connector listed first, male connector second
Example: **KB 3T-2-SB 3T**

Extension Examples:

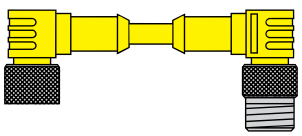
Hybrid connector extensions also available. Consult factory.

KB	3	T	-	2	SB	3	T

WKB	3	T	-	2	SB	3	T



KB	3	T	-	2	WSB	3	T



WKB	3	T	-	2	WSB	3	T

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

Cordset Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

F K B V 4 - * / 18.25 / S..

1/2" Microfast Receptacle

Gender
K = female connector
S = male connector

Designator for Receptacle

Mounting Style
(blank) = front mount
P = back panel mount

Reverse Key
(blank) = nickel plated brass
V = stainless steel

Varieties
/S .. = consult factory, special

Mounting Threads
18.25 = 1/4-18 NPT
14.5 = 1/2-14 NPSM
14.5/NPT = 1/2-14 NPT

Length in Meters

Mounting Threads
2 = BN, BU
3 = GN, RD/BK, RD/WH
4 = RD/BK, RD/WH, RD, GN
5 = RD/WH, RD, GN, RD/YE, RD/BK
6 = RD/WH, RD, GN, RD/YE, RD/BK, RD/BU
AWG sizes depend on body style and "/S" variety

Field Wireable Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

MF S 3 2 3 1 - 0

Field Wireable Type
MF = standard field wireable

Gender
(blank) = female
S = male

1/2 Microfast Field Wireable

Housing Style
1 = straight
2 = right angle

Number of Pins
3 = 3

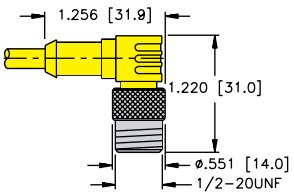
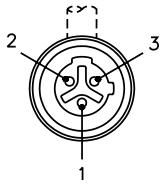
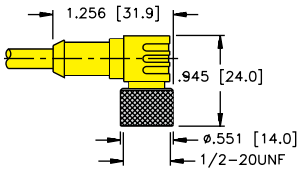
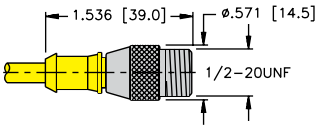
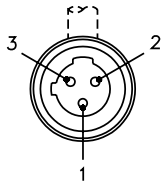
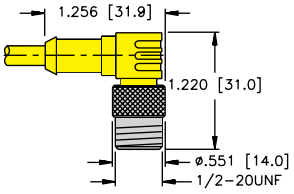
Termination
1 = standard

Cable Option
0 = no cable

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

3-Wire Cordsets, Standard Duty

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WSB ..** 	**KB 3T-*** **WKB 3T-***	**SB 3T-*** **WSB 3T-***	ITC/PLTC PVC Yellow, 3x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50531-*M	1. GN 2. RD/BK 3. RD/WH	Female 
WKB ..** 	**KB 3T-*/S90** **WKB 3T-*/S90**	**SB 3T-*/S90** **WSB 3T-*/S90**	AWM TPU Yellow, 3x18 AWG, 90 °C, 5.3 mm OD, Cable #RF50547-*M, Cut/Abrasion Immune		
	KB 3T-*/S105 **WKB 3T-*/S105**	**SB 3T-*/S105** **WSB 3T-*/S105**	ITC/PLTC PVC Yellow, 3x22 AWG,105 °C, 6.2 mm OD, Cable #RF50535-*M, Braided Shield		
SB ..** 	**KB 3T-*/S749** **WKB 3T-*/S749**	**SB 3T-*/S749** **WSB 3T-*/S749**	ITC/PLTC PVC Yellow, 2x22 AWG, 105 °C, 5.1 mm OD, Cable #RF50650-*M, 3-pin with 2 conductors	1. N/C 2. BK 3. WH	Male 
WSB ..** 	**KB 3T-*/S1507** **WKB 3T-*/S1507**	**SB 3T-*/S1507** **WSB 3T-*/S1507**	AWM TPE Grey, 3x22 AWG 105 °C, 4.8 mm OD, Cable #RF52085-*M, Flexlife-20, High Flex - Over 20 million cycles	1. BK 2. BN 3. BU	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

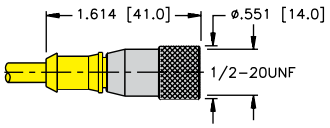
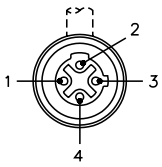
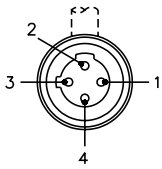
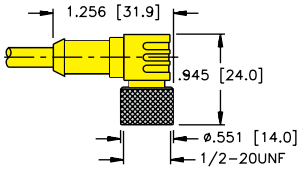
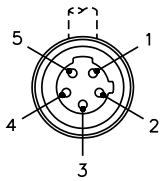
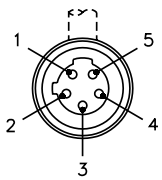
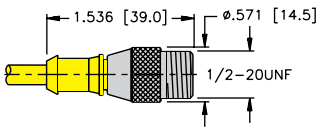
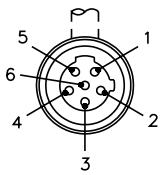
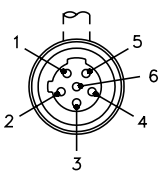
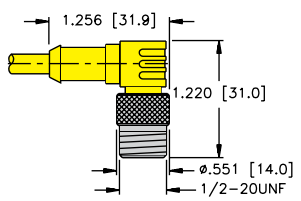
** Standard coupling nut material is nickel plated brass "KB .."; "KBK .." indicates nylon and "KBV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Cordsets, Standard Duty

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
KB ..** 	**KB 4T-*** **WKB 4T-***	**SB 4T-*** **WSB 4T-***	ITC/PLTC PVC Yellow, 4x22 AWG, 105 °C, 5.3 mm OD, Cable #RF50555-*M, Flexlife®	1. RD/BK 2. RD/WH 3. RD 4. GN	Female 
	KB 4T-*/S90 **WKB 4T-*/S90**	**SB 4T-*/S90** **WSB 4T-*/S90**	AWM TPU Yellow, 4x22 AWG, 90 °C, 4.7 mm OD, Cable #RF50614-*M, Cut/ Abrasion Immune		
	KB 4T-*/S105 **WKB 4T-*/S105**	**SB 4T-*/S105** **WSB 4T-*/S105**	ITC/PLTC PVC Yellow, 4x22 AWG, 105 °C, 6.2 mm OD, Cable #RF50656-*M, Braided Copper Shield		Male 
WKB ..** 	**KB 4T-*/S727** **WKB 4T-*/S727**	**SB 4T-*/S727** **WSB 4T-*/S727**	AWM TPU Grey, 4x22 AWG, 90 °C, 5.1 mm OD, Cable #RF50532-*M, Special Conductor Color Code	1. BN 2. BU 3. BK 4. WH	
	KB 5T-* **WKB 5T-***	**SB 5T-*** **WSB 5T-***	ITC/PLTC PVC Yellow, 5x22 AWG, 105 °C, 5.7 mm OD, Cable #RF50556-*M, Flexlife	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	Female  Male 
SB ..** 					
	KB 6T-* **WKB 6T-***	**SB 6T-*** **WSB 6T-***	ITC/PLTC PVC Yellow, 6x22 AWG, 105 °C, 6.2 mm OD, Cable #RF51003-*M, Flexlife	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK 6. RD/BU	Female  Male 
WSB ..** 					

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

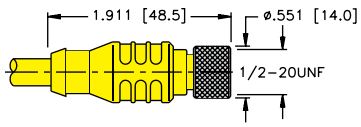
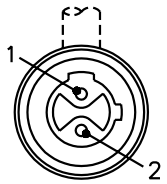
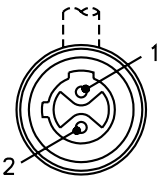
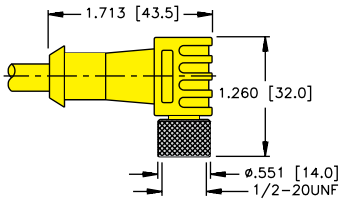
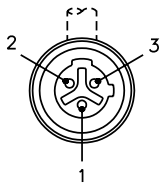
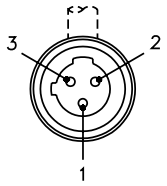
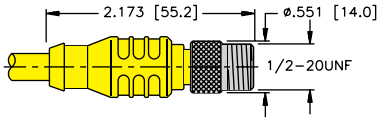
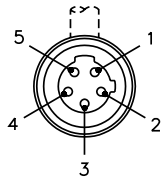
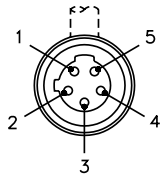
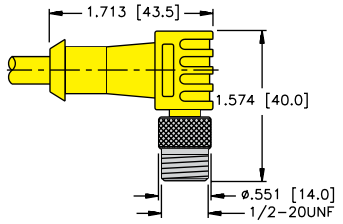
** Standard coupling nut material is nickel plated brass "KB .."; "KBK .." indicates nylon and "KBV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

2, 3 and 5-Wire Cordsets, Large Plug Body

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
KBE ..** 	**KBE 2T-* WKBE 2T-***	**SBE 2T-* WSBE 2T-***	ITC/PLTC PVC Yellow, 2x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50511-*M, Flexlife®	1. BN 2. BU	Female  Male 
WKBE ..** 	**KBE 3T-* WKBE 3T-***	**SBE 3T-* WSBE 3T-***	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50520-*M, Flexlife	1. GN 2. RD/BK 3. RD/WH	Female  Male 
	KBE 3T-*/S600 WKBE 3T-*/S600	**SBE 3T-*/S600 WSBE 3T-*/S600**	SJOOW CPE Yellow, 3x18 AWG, 105 °C, 8.0 mm OD, Cable #RF50658-*M, Weld Flash Immune, Flame Immune		
SBE ..** 	**KBE 3T-*/S1587 WKBE 3T-*/S1587**	**SBE 3T-*/S1587 WSBE 3T-*/S1587**	ITC/PLTC TPE Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50957-*M, Weldlife, Weld Flash Immune		
	KBE 5T-* WKBE 5T-*	**SBE 5T-* WSBE 5T-***	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50521-*M, Flexlife	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	Female  Male 
WSBE ..** 	**KBE 5T-*/S600 WKBE 5T-*/S600**	**SBE 5T-*/S600 WSBE 5T-*/S600**	SJOOW CPE Yellow, 5x18 AWG, 105 °C, 9.4 mm OD, Cable #RF50659-*M, Weld Flash Immune, Flame Immune		
	KBE 5T-*/S1587 WKBE 5T-*/S1587	**SBE 5T-*/S1587 WSBE 5T-*/S1587**	ITC/PLTC TPE Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50958-*M, Weldlife, Weld Flash Immune		

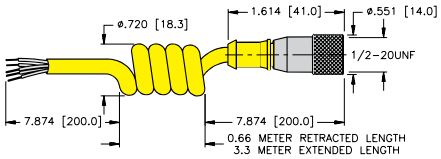
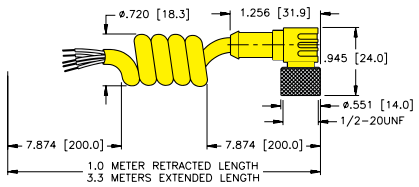
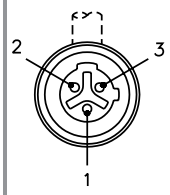
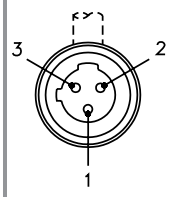
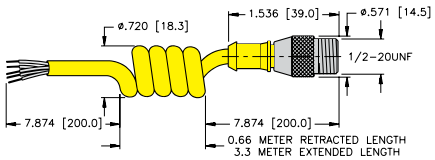
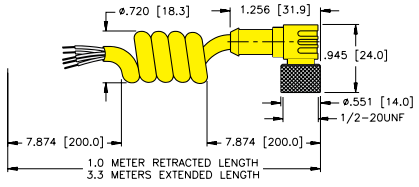
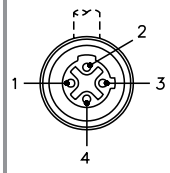
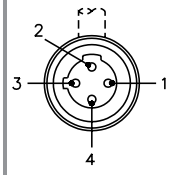
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "KB ..."; "KBK ..." indicates nylon and "KBV ..." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

3 and 4-Wire Spiral Cordsets, Standard Duty

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
KB ..SP**  WKB ..SP** 	**KB 3T-3.3/S90-SP** **WKB 3T-3.3/S90-SP**	**SB 3T-3.3/S90-SP** **WSB 3T-3.3/S90-SP**	AWM TPU Yellow, 3x22 AWG, 90 °C, 250 V, 4 A, 5.1 mm OD, for repetitive motion, 3-wire applications	1. GN 2. RD/BK 3. RD/WH	Female  Male 
SB ..SP**  WSB ..SP** 	**KB 4T-3.3/S90-SP/S727** **WKB 4T-3.3/S90-SP/S727**	**SB 4T-3.3/S90-SP/S727** **WSB 4T-3.3/S90-SP/S727**	AWM TPU Grey, 4x22 AWG, 90 °C, 250 V, 4 A, 5.1 mm OD, for repetitive motion, 3-wire AC flow sensor applications	1. BN 2. WH 3. BU 4. BK	Female  Male 

** Standard coupling nut material is nickel plated brass ""KB"(WKB)"..; "KBV(WKBV)" indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Receptacle Selection Guide

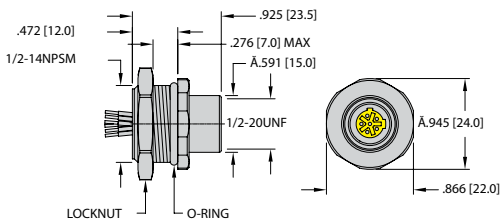
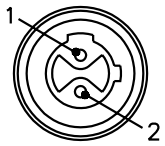
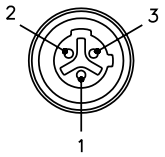
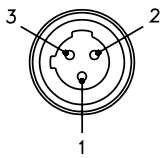
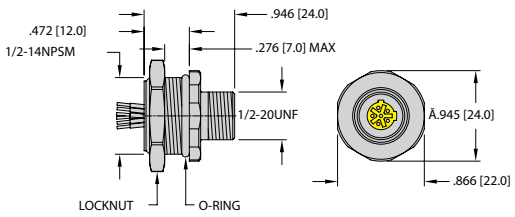
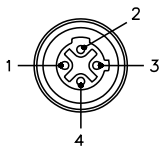
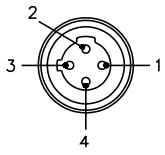
Mounting Style	Image	Panel Thread Types	Page
Front Mount		1/2-14 NPSM	E9
		1/2-14 NPT	E11
		1/4-18 NPT	E13
Rear Mount		11/16-24 UNEF	E15
		Bulkhead Feed-thru	E15

We reserve the right to make technical alterations without prior notice.

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

2, 3 and 4-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKB ...  **Typical panel cutout 22.5 mm**	**FKB 2-*/14.5**	**FSB 2-*/14.5**	2x18 AWG, 105 °C	1. BN 2. BU	Female  Male
	FKB 3-*/14.5	**FSB 3-*/14.5**	3x22 AWG, 105 °C	1. GN 2. RD/BK 3. RD/WH	Female  Male 
	FKB 3-*/14.5/S690	**FSB 3-*/14.5/S690**	3x18 AWG, 105 °C		
FSB ...  **Typical panel cutout 22.5 mm**	**FKB 4-*/14.5**	**FSB 4-*/14.5**	4x22 AWG, 105 °C	1. RD/BK 2. RD/WH 3. RD 4. GN	Female  Male 

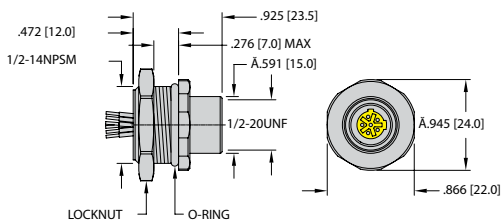
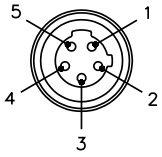
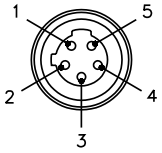
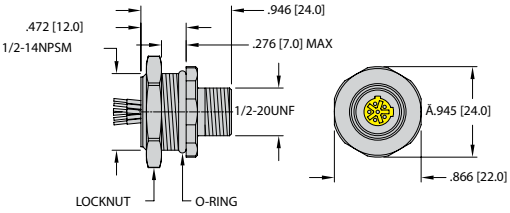
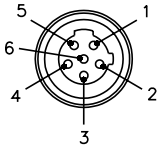
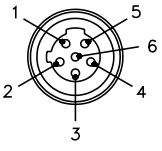
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass..”FSB ..”.
To specify PVC jacketed cable, add “/S717” to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKB ...  **Typical panel cutout 22.5 mm**	**FKB 5-*/14.5**	**FSB 5-*/14.5**	5x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	**Female**  **Male** 
	FKB 5-*/14.5/S690	**FSB 5-*/14.5/S690**	5x18 AWG, 105 °C		
FSB ...  **Typical panel cutout 22.5 mm**	**FKB 6-*/14.5**	**FSB 6-*/14.5**	6x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK 6. RD/BU	**Female**  **Male** 

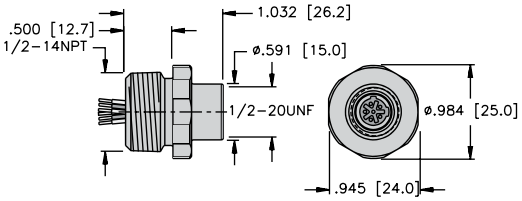
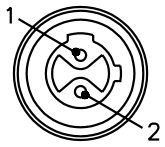
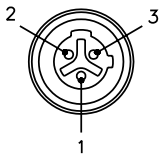
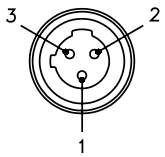
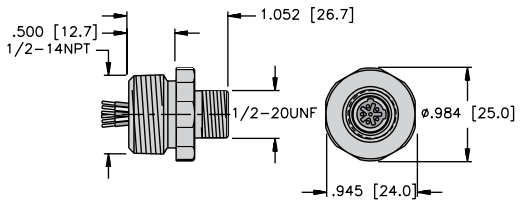
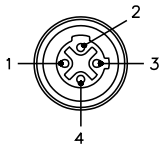
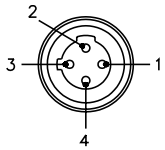
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.."FSB ..".
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

2, 3 and 4-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKB ...  **Typical panel cutout 22.5 mm**	**FKB 2-*/14.5/NPT**	**FSB 2-*/14.5/NPT**	2x18 AWG, 105 °C	1. BN 2. BU	Female  Male
	FKB 3-*/14.5/NPT	**FSB 3-*/14.5/NPT**	3x22 AWG, 105 °C	1. GN 2. RD/BK 3. RD/WH	Female  Male 
FSB ...  **Typical panel cutout 22.5 mm**	**FKB 4-*/14.5/NPT**	**FSB 4-*/14.5/NPT**	4x22 AWG, 105 °C	1. RD/BK 2. RD/WH 3. RD 4. GN	Female  Male 

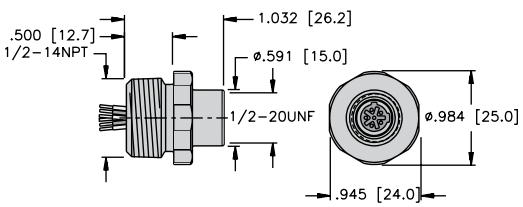
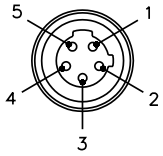
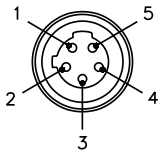
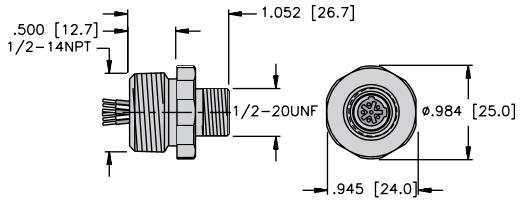
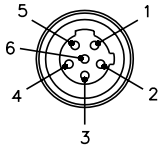
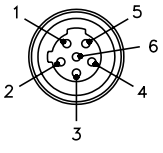
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.."FSB..".
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKB ...  **Typical panel cutout 22.5 mm**	**FKB 5-*/14.5/NPT**	**FSB 5-*/14.5/NPT**	5x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	**Female**  **Male** 
		FSB 5-*/14.5/NPT/S690	5x18 AWG, 105 °C		
FSB ...  **Typical panel cutout 22.5 mm**	**FKB 6-*/14.5/NPT**	**FSB 6-*/14.5/NPT**	6x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK 6. RD/BU	**Female**  **Male** 

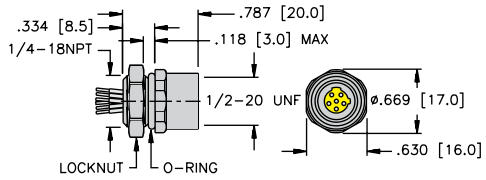
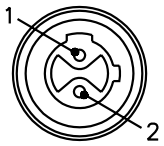
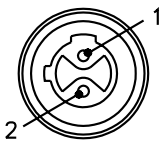
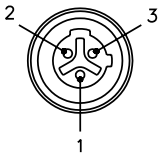
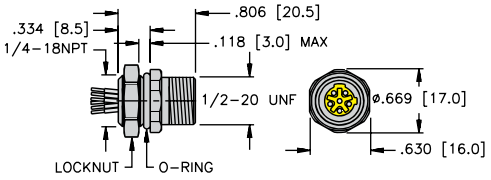
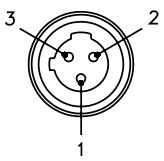
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass..”FSB..”.
To specify PVC jacketed cable, add “/S717” to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKB ...  **Typical panel cutout 22.5 mm**	**FKB 2-*/18.25**	**FSB 2-*/18.25**	2x18 AWG, 105 °C	1. BN 2. BU	Female  Male 
	FKB 3-*/18.25	**FSB 3-*/18.25**	3x22 AWG, 105 °C	1. GN 2. RD/BK 3. RD/WH	Female 
	FKB 3-*/18.25/S690	**FSB 3-*/18.25/S690**	3x18 AWG 105 °C		
FSB ...  **Typical panel cutout 22.5 mm**		**FSB 3-*/18.25/S649**	3x22 AWG 105 °C	1. GN 2. BK 3. WH	
	FKB 3-*/18.25/S662	**FSB 3-*/18.25/S662**	3x18 AWG 105 °C		Male 
		FSB 3-*/18.25/S881	3x22 AWG 105 °C	1. YE 2. GN 3. BN	

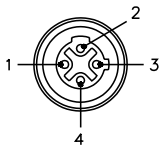
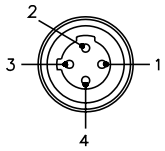
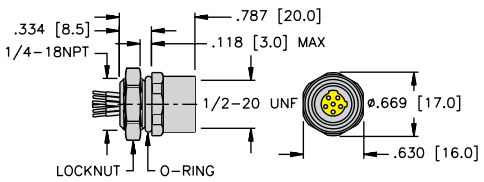
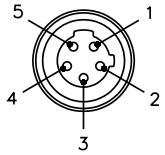
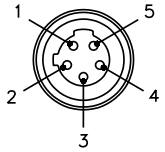
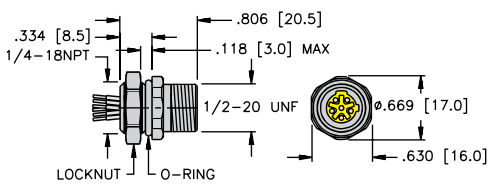
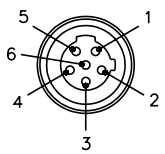
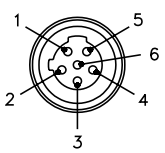
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.."FSB ..". "FSBV.." indicates stainless steel housing.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4, 5 and 6-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 250 V, 4 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
		FSB 4-*/18.25/S621	4x18 AWG, 105 °C	1. GY1 2. GY2 3. GY3 4. GY4	**Female**  **Male** 
FKB ...  **Typical panel cutout is 14.3 mm**	**FKB 4-*/18.25**	**FSB 4-*/18.25**	4x22 AWG, 105 °C	1. RD/BK 2. RD/WH 3. RD 4. GN	
		FSB 4-*/18.25/S727	4x22 AWG, 105 °C	1. BN 2. BU 3. BK 4. WH	
	FKB 5-*/18.25	**FSB 5-*/18.25**	5x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	**Female**  **Male** 
	FKB 5-*/18.25/S690	**FSB 5-*/18.25/S690**	5x18 AWG, 105 °C		
FSB ...  **Typical panel cutout is 14.3 mm**	**FKB 6-*/18.25**	**FSB 6-*/18.25**	6x22 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK 6. RD/BU	**Female**  **Male** 

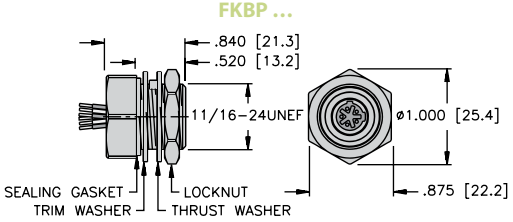
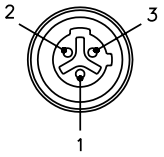
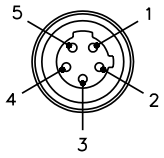
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.."FSB ..". "FSBV.." indicates stainless steel housing.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

3 and 5-Wire Female Receptacles, Back Panel Mount, 11/16-24 Threads

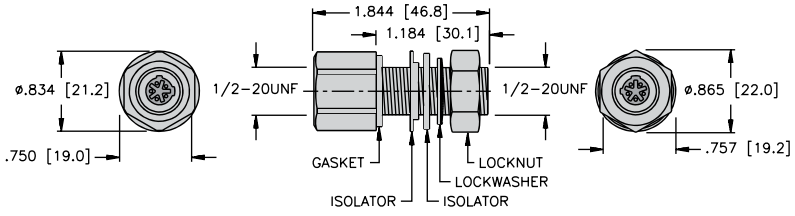
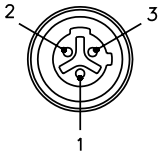
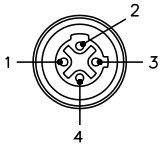
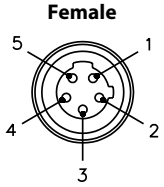
- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Housing Style	Female Part Number	Features	Pinout	
FKBP ...  **Recommended panel thickness is 5.1 mm and typical panel cutout is 17.5 x 3.2 x 1.6 mm**	**FKBP 3-***	3x18 AWG, 105 °C	1. GN 2. RD/BK 3. RD/WH	Female 
	FKBP 5-*	5x18 AWG, 105 °C	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	Female 

Standard housing material is nickel plated brass.

3, 4 and 5-Wire Shielded Bulkhead Feed-Thru Receptacles

- **NEMA 1, 3, 4, 6P**
- **IEC IP67 Protection**
- **250 V, 4 A**

Housing Style	Part Number	Features	Pinout
FKB FSB ..  **Recommended panel cutout thickness is 5.1 mm and typical panel cutout is 12.5 or 15.9 mm**	**FKB FSB 3**	3-pin, 105 °C	Female 
	FKB FSB 4	4-pin, 105 °C	Female 
	FKB FSB 5	5-pin, 105 °C	Female 

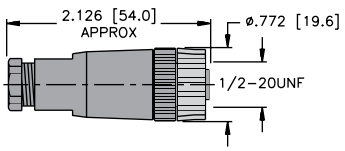
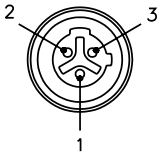
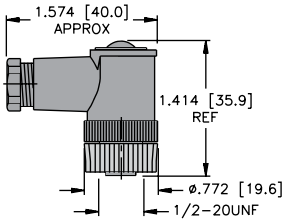
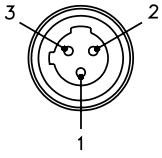
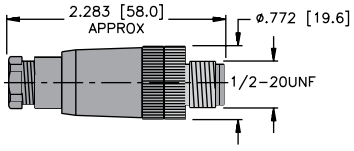
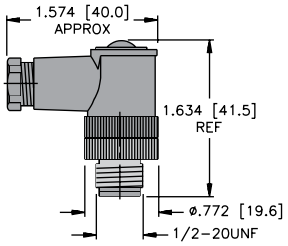
Standard housing material is nickel plated brass.

We reserve the right to make technical alterations without prior notice.

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

3-Pin Field Wireable Connectors

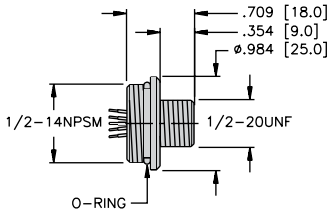
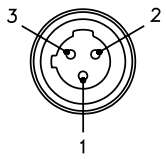
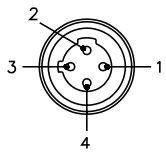
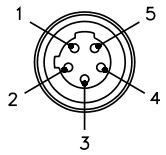
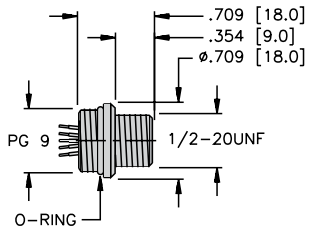
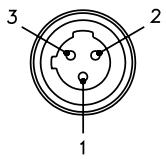
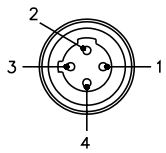
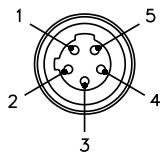
- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout
MF 3131-0 	**MF 3131-0**	**MFS 3131-0**	PBT, black, PG 7 cable diameter gland, accepts 4-6 mm cable diameter, screw terminals, accepts up to 18 AWG conductor, 85 °C, 250 V, 4 A, mates with 3-wire cordsets and receptacles	Female 
MF 3231-0 	**MF 3231-0**	**MFS 3231-0**	PBT, black, PG 7 cable diameter gland, accepts 4-6 mm cable diameter, screw terminals, accepts up to 18 AWG conductor, 85 °C, 250 V, 4 A, mates with 3-wire cordsets and receptacles	Male 
MFS 3131-0 				
MFS 3231-0 				

We reserve the right to make technical alterations without prior notice.

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

Adapters

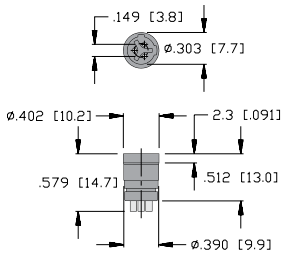
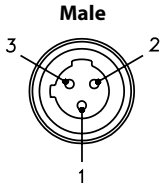
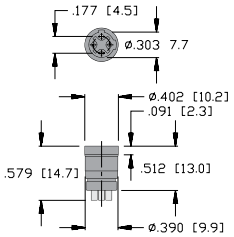
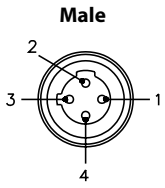
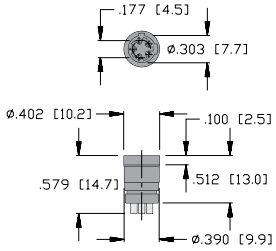
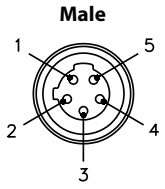
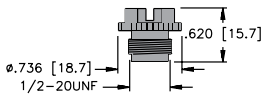
Housing Style	Part Number	Features	Pinout	
 **Typical panel cutout is 22.5 mm**	**B3131-***	Nickel plated brass, 3x26 AWG leads, 80 °C, 250 V, 4 A, Mates with 3-pin cordsets, 1/2-14 NPSM thread	1. GN 2. BN 3. BU	**Male** 
	B3141-*	Nickel plated brass, 4x22 AWG leads, 80 °C, 250 V, 4 A, Mates with 4-pin cordsets, 1/2-14 NPSM thread	1. RD/BK 2. RD/WH 3. RD 4. GN	**Male** 
	B3151-*	Nickel plated brass, 5x26 AWG leads, 80 °C, 250 V, 4 A, Mates with 5-pin cordsets, 1/2-14 NPSM thread	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	**Male** 
 **Typical panel cutout is 22.5 mm**	**B3131-PG9-***	Nickel plated brass, 3x26 AWG leads, 80 °C, 250 V, 4 A, Mates with 3-pin cordsets, PG 9 thread	1. GN 2. BN 3. BU	**Male** 
	B3141-PG9-*	Nickel plated brass, 4x22 AWG leads, 80 °C, 250 V, 4 A, Mates with 4-pin cordsets, PG 9 thread	1. RD/BK 2. RD/WH 3. RD 4. GN	**Male** 
	B3151-PG9-*	Nickel plated brass, 5x26 AWG leads, 80 °C, 250 V, 4 A, Mates with 5-pin cordsets, PG 9 thread	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK	**Male** 

We reserve the right to make technical alterations without prior notice.

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

Accessories

- **For use in Sensors and Custom Receptacles**
- **Compatible with Standard Microfast Cordsets**

Housing Style	Part Number	Features	Pinout
	**ESBW 3 (10/BAG)**	Nylon solder cup, accepts up to 22 AWG, 80 °C, 250 V, 4 A, up to 3 conductors	
	**ESBW 4 (10/BAG)**	Nylon solder cup, accepts up to 22 AWG, 80 °C, 250 V, 4 A, up to 4 conductors	
	**ESBW 5 (10/BAG)**	Nylon solder cup, accepts up to 22 AWG, 80 °C, 250 V, 4 A, up to 5 conductors	
	**SB-CC (10/BAG)**	Polypropylene closer cap, mates to female cordsets, receptacles and junction boxes	

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	F2
Cordsets	F6
Receptacles	F24
Field Wireables	F48
Tees	F53
Closure Caps	F60
Accessories	F63

Features

- 7/8-16, 1-16 and 1 1/8-16 UN thread connectors
- 7/8" available in 2 to 6-pin
- 1" available in 6 to 8-pin
- 1 1/8" available in 9, 10, 12 and 19-pin
- Up to 10 Amp, 600 Volt rated
- Limited power and control applications

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

Cordset Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	K	M	30	-	*M	/S..

7/8", 1" & 1 1/8" Minifast Cordset

R	=	straight
W	=	right angle

Gender

K	=	female connector, female threads
S	=	male connector, male threads
Y	=	male connector, female threads
X	=	female connector, male threads

Coupling Nut Material

(blank)	=	nylon
M	=	nickel plated brass
V	=	stainless steel (hex on 1", 1 1/8" and knurl on 7/8")
VH	=	stainless steel (hex on 7/8")

Insertion Point of Extension Cable and Second Prefix*

* Male connector listed first, female connector second
Example: **RSM RKM 40-2M**

Varieties

(blank)	=	PVC jacket
/S90	=	TPU jacket
/S90-SP	=	TPU coil cord
/S101	=	Flexlife-20, high flex cable
/S529	=	yellow TPU jacket, braided shield, PVC inner jacket
/S600	=	CPE, rubber jacket
/S824	=	yellow PLTC
/S1077	=	silicone tubing
/S1587	=	TPE, Weldlife
/S ..	=	consult factory, special
/CS ..	=	consult factory, special
/S760 /S771	=	black cable, black mold body

Length in Meters

Number of Wires / AWG / Color Codes

20	=	2x18 AWG	BN, BU
26	=	2x16 AWG	WH, BK
28A	=	2x18 AWG	WH, BK
30	=	3x18 AWG	GN/YE, BN, BU
31	=	3x18 AWG	BK, BN, BU
35	=	3x16 AWG	GN, RD/BK, RD/WH
36	=	3x16 AWG	GN, BK, WH
38A	=	3x18 AWG	GN, BK, WH
311	=	3x18 AWG	GN, RD/BK, RD/WH
40	=	4x18 AWG	BN, WH, BU, BK
46	=	4x16 AWG	BK, WH, RD, GN
47	=	4x16 AWG	BN, WH, BU, GN/YE
48A	=	4x18 AWG	BK, WH, RD, GN
50	=	5x18 AWG	BK, BU, GN/YE, BN, WH
55	=	5x16 AWG	RD/WH, RD/BU, GN, RD/OG, RD/BK
56	=	5x16 AWG	WH, RD, GN, OG, BK
58A	=	5x18 AWG	WH, RD, GN, OG, BK
511	=	5x18 AWG	RD/WH, RD/BU, GN, RD/OG, RD/BK
61	=	6x18 AWG	GN, WH, BU, GY, YE, BN
66	=	6x16 AWG	WH, RD, GN, OG, BK, BU
68A	=	6x18 AWG	WH, RD, GN, OG, BK, BU
6B6	=	6x16 AWG	OG, BU, BK, WH, RD, GN
76	=	7x16 AWG	WH/BK, BK, WH, RD, OG, BU, GN
86	=	8x16 AWG	OG, BU, WH/BK, BK, WH, RD, GN, RD/BK
96	=	9x16 AWG	OG, BU, RD/BK, GN/BK, WH, RD, GN, WH/BK, BK
106	=	10x16 AWG	OG, BU, WH/BK, RD/BK, GN/BK, OG/BK, RD, GN, BK, WH
126	=	12x16 AWG	OG, BU, WH/BK, RD/BK, GN/BK, OG/BK, BU/BK, BK/WH, GN, RD, WH, BK

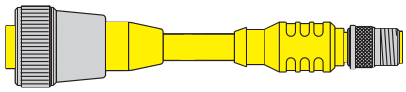
__A Metal Clad Cable (18 AWG straight only)
__D Smooth Plug Body (16 AWG straight only)

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

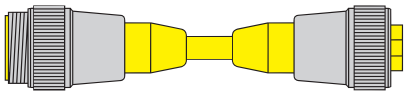
Cordset Part Number Key

Extension Examples:

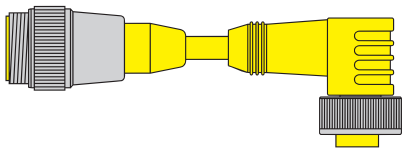
Hybrid connector extensions also available. Consult factory.



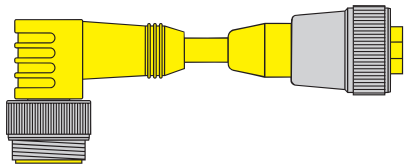
R	K	M	40	-	2M	-	R	S	C	4.4T



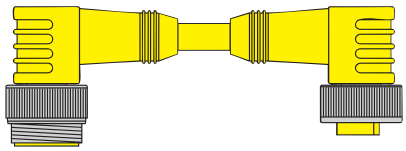
R	S	M	R	K	M	30	-	4M	/S..



R	S	M	W	K	M	30	-	4M	/S..



W	S	M	R	K	M	30	-	4M	/S..



W	S	M	W	K	M	30	-	4M	/S..

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

Receptacle Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	K	F		V	30	-	*M	/NPT	/S..

7/8", 1" & 1 1/8" Minifast Receptacle

Gender

K = female connector, female threads
S = male connector, male threads
X = female connector, male threads

Designator for Receptacle

Mounting Style

(blank) = front mount
P = back panel mount
L = solder cup

Housing Material

(blank) = nickel plated brass
K = nylon
V = stainless steel

Number of Wires / AWG / Color Codes

20	=	2x18 AWG	BN, BU
26	=	2x16 AWG	WH, BK
30	=	3x18 AWG	GN/YE, BN, BU
31	=	3x18 AWG	BK, BN, BU
35	=	3x16 AWG	GN, RD/BK, RD/WH
36	=	3x16 AWG	GN, BK, WH
311	=	3x18 AWG	GN, RD/BK, RD/WH
40	=	4x18 AWG	BN, WH, BU, BK
46	=	4x16 AWG	BK, WH, RD, GN
47	=	4x16 AWG	BN, WH, BU, GN/YE
50	=	5x18 AWG	BK, BU, GN/YE, BN, WH
55	=	5x16 AWG	RD/WH, RD/BU, GN, RD/OG, RD/BK
56	=	5x16 AWG	WH, RD, GN, OG, BK
511	=	5x18 AWG	RD/WH, RD/BU, GN, RD/OG, RD/BK
61	=	6x18 AWG	GN, WH, BU, GY, YE, BN
66	=	6x16 AWG	WH, RD, GN, OG, BK, BU
6B6	=	6x16 AWG	OG, BU, BK, WH, RD, GN
76	=	7x16 AWG	WH/BK, BK, WH, RD, OG, BU, GN
86	=	8x16 AWG	OG, BU, WH/BK, BK, WH, RD, GN, RD/BK
96	=	9x16 AWG	OG, BU, RD/BK, GN/BK, WH, RD, GN, WH/BK, BK
106	=	10x16 AWG	OG, BU, WH/BK, RD/BK, GN/BK, OG/BK, RD, GN, BK, WH
126	=	12x16 AWG	OG, BU, WH/BK, RD/BK, GN/BK, OG/BK, BU/BK, BK/WH, GN, RD, WH, BK

Connection Type / Length in Meters

(blank) = solder cup
PCB = PCB pins

Varieties

/S849 = 22 AWG
/S = consult factory, special
/CS.. = consult factory, special
/S717 = jacket cable

Varieties

(blank) = 1/2-14 NPSM threads
/NPT = 1/2-14 NPT threads
/14.5/NPT = 1/2-14 NPT threads (1" & 1 1/8")
/14.75/NPT = 3/4-14 NPT threads
/M20 = M20 threads

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

Field Wireable Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B	S		4	2	3	1	-	0	/	9

Field Wireable Type
B = standard field wireable

Gender
(blank) = female
S = male

Coupling Nut Material
(blank) = nickel
V = stainless steel

Minifast Style
4 = 7/8″
7 = 1″ or 1 1/8″

Housing Style
1 = straight
2 = right angle

Cable Opening
9 = PG 9 cable opening
13.5 = PG 13.5 cable opening
16 = PG 16 cable opening
21 = PG 21 cable opening

Cable Option
0 = no cable

Termination
1 = standard

Number of Pins

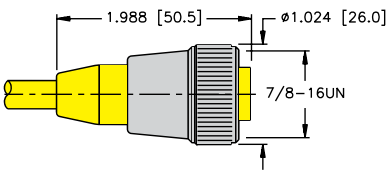
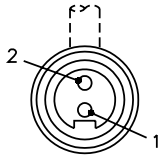
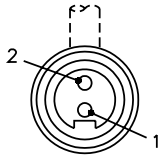
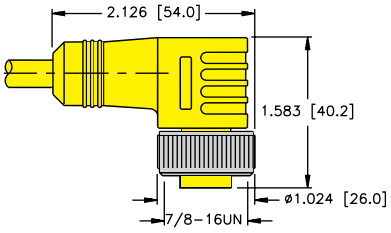
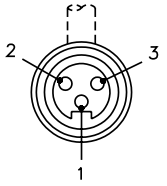
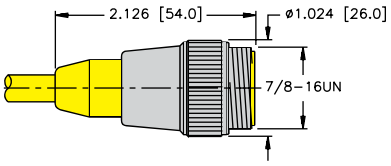
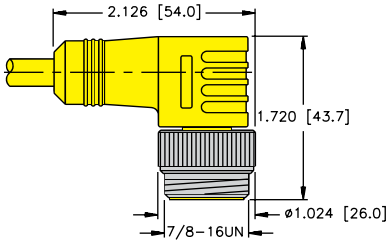
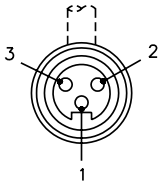
3	=	3	7	=	7
4	=	4	8	=	8
5	=	5	9	=	9
6	=	6	10	=	10
6B6	=	6	12	=	12

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

7/8" *minifast*® Connectivity Products

2 and 3-Wire Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 20- *M** **WKM 20- *M**	**RSM 20- *M** **WSM 20- *M**	ITC/PLTC PVC Yellow 2x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50511-*M, Flexlife®, 600 V	1. BN 2. BU	Female  Male 
WKM ..** 	**RKM 30-*M** **WKM 30-*M**	**RSM 30-*M** **WSM 30-*M**	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50880-*M, Flexlife, 600 V	1. GN/YE 2. BN 3. BU	Female 
	RKM 30-*M/S90 **WKM 30-*M/S90**	**RSM 30-*M/S90** **WSM 30-*M/S90**	AWM TPU Yellow, 3x18 AWG , 90 °C, 6.0 mm OD, Cable #RF50545-*M, Cut Abrasion Immune, 600 V		
RSM ..** 	**RKM 30-*M/S101** **WKM 30-*M/S101**	**RSM 30-*M/S101** **WSM 30-*M/S101**	AWM TPE Yellow, 3x18 AWG , 105 °C, 5.7 mm OD, Cable #RF51173-*M, Flexlife-20, high flex over 20 million cycles, 600 V C-track		
WSM ..** 	**RKM 311-*M** **WKM 311-*M**	**RSM 311-*M** **WSM 311-*M**	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50520-*M, Flexlife, 600 V	1. GN 2. RD/BK 3. RD/WH	Male 
	RKM 311-*M/S600 **WKM 311-*M/S600**	**RSM 311-*M/S600** **WSM 311-*M/S600**	SJOOW CPE, Yellow, 3x18 AWG , 105 °C, 8.0 mm OD, Cable #RF50658-*M, Weld Flash Immune, Flame Immune, 300 V		

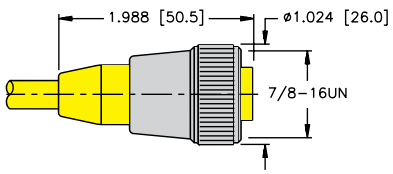
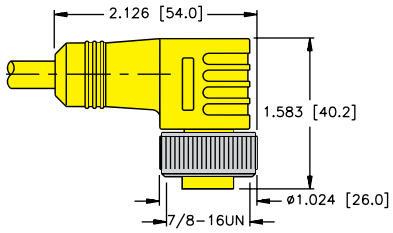
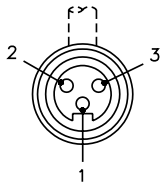
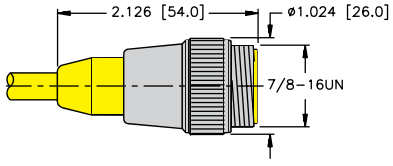
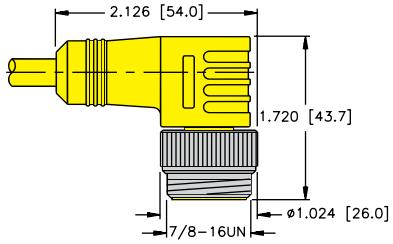
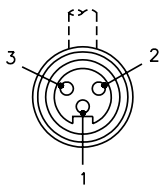
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

We reserve the right to make technical alterations without prior notice.

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

3-Wire Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..**  WKM ..** 	**RKM 31-*M** **WKM 31-*M**	**RSM 31-*M** **WSM 31-*M**	ITC/PLTC PVC Yellow, 3x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50513-*M, Flexlife®, 600 V	1. BK 2. BN 3. BU	Female 
RSM ..**  WSM ..** 	**RKM 31-*M/S600** **WKM 31-*M/S600**	**RSM 31-*M/S600** **WSM 31-*M/S600**	SJOOW CPE Yellow, 3x18 AWG, 105 °C, 8.0 mm OD, Cable #RF50654-*M, Weld Flash Immune, Flame Immune, 300 V		Male 

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

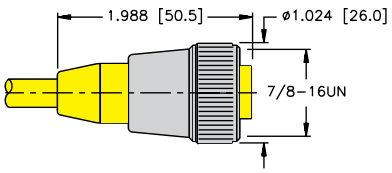
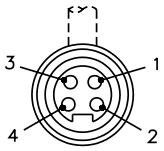
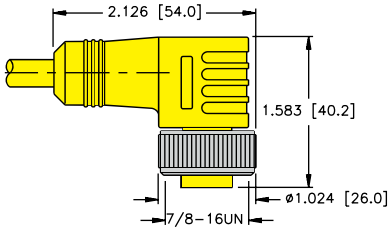
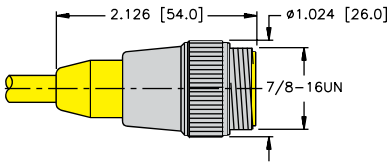
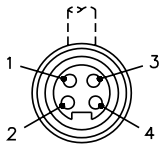
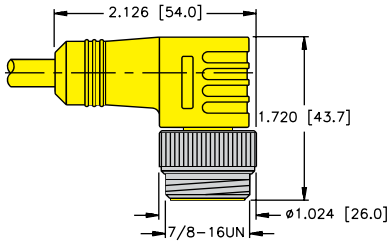
We reserve the right to make technical alterations without prior notice.

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

7/8" *minifast*® Connectivity Products

3 and 4-Wire Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 40-*M** **WKM 40-*M**	**RSM 40-*M** **WSM 40-*M**	ITC/PLTC PVC Yellow, 4x18 AWG, 105 °C, 6.7 mm OD, Cable #RF50548-*M, Flexlife®, 600 V	1. BN 2. WH 3. BU 4. BK	Female 
WKM ..** 	**RKM 40-*M/S90** **WKM 40-*M/S90**	**RSM 40-*M/S90** **WSM 40-*M/S90**	AWM TPU Yellow, 4x18 AWG, 90 °C, 7.2 mm OD, Cable #RF50544-*M, Cut/ Abrasion Immune, 600 V		
	RKM 40-*M/S101 **WKM 40-*M/S101**	**RSM 40-*M/S101** **WSM 40-*M/S101**	AWM TPE Yellow, 4x18 AWG, 105 °C, 6.2 mm OD, Cable #RF50968-*M, Flexlife-20, High Flex - Over 20 million cycles, 600 V, C-track		
RSM ..** 	**RKM 40-*M/S529** **WKM 40-*M/S529**	**RSM 40-*M/S529** **WSM 40-*M/S529**	TPU Yellow, 4x20 AWG, 90 °C, 5.7 mm OD, Cable #RF50526-*M, Cut/ Abrasion Immune, Braided Mechanical Shield, 300 V		Male 
WSM ..** 	**RKM 40-*M/S600** **WKM 40-*M/S600**	**RSM 40-*M/S600** **WSM 40-*M/S600**	SJOOW CPE Yellow, 4x18 AWG, 105 °C, 8.5 mm OD, Cable #RF50644-*M, Weld Flash Immune, Flame Immune, 300 V		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

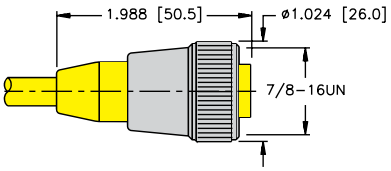
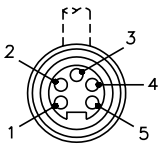
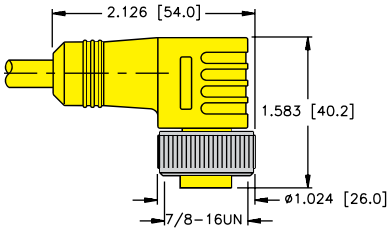
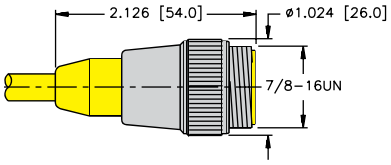
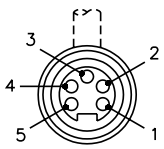
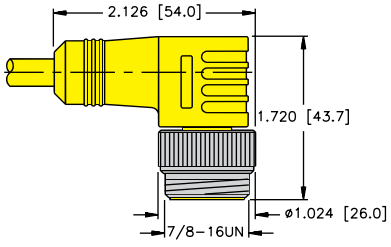
We reserve the right to make technical alterations without prior notice.

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

TURCK

5-Wire Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 50-*M** **WKM 50-*M**	**RSM 50-*M** **WSM 50-*M**	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50549-*M, Flexlife®, 600 V	1. BK 2. BU 3. GN/YE 4. BN 5. WH	Female 
	RKM 50-*M/S90 **WKM 50-*M/S90**	**RSM 50-*M/S90** **WSM 50-*M/S90**	AWM TPU Yellow, 5x18 AWG, 90 °C, 7.2 mm OD, Cable #RF50751-*M, Cut/Abrasion Immune, 600 V		
WKM ..** 	**RKM 50-*M/S101** **WKM 50-*M/S101**	**RSM 50-*M/S101** **WSM 50-*M/S101**	AWM TPE Yellow, 5x18 AWG, 105 °C, 6.7 mm OD, Cable #RF51174-*M, Flexlife-20, high flex over 20 million cycles, 600 V, C-track		
RSM ..** 	**RKM 50-*M/S1551** **WKM 50-*M/S1551**	**RSM 50-*M/S1551** **WSM 50-*M/S1551**	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50578-*M, Yellow conductor instead of Green/Yellow, 600 V	1. BK 2. BU 3. YE 4. BN 5. WH	
	RKM 511-*M **WKM 511-*M**	**RSM 511-*M** **WSM 511-*M**	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 7.6 mm OD, Cable #RF50521-*M, Flexlife, 600 V	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	Male 
WSM ..** 	**RKM 511-*M/S600** **WKM 511-*M/S600**	**RSM 511-*M/S600** **WSM 511-*M/S600**	SJOOW CPE Yellow, 5x18 AWG, 105 °C, 9.4 mm OD, Cable #RF50659-*M, Weld Flash Immune, Flame Immune, 300 V		

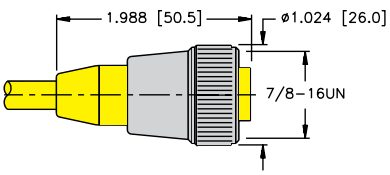
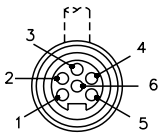
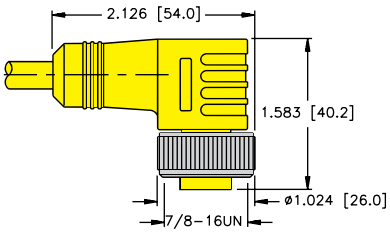
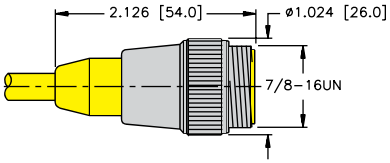
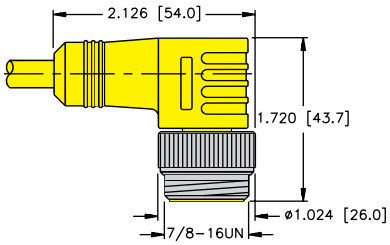
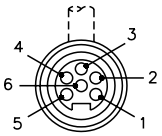
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

We reserve the right to make technical alterations without prior notice.

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

6-Wire Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 8 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 61-*M** **WKM 61-*M**	**RSM 61-*M** **WSM 61-*M**	ITC/PLTC PVC Yellow, 6x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50575-*M, Flexlife®, 600 V	1. BN 2. N/C 3. GN/YE 4. N/C 5. BU 6. N/C	Female 
WKM ..** 	**RKM 61-*M/S739** **WKM 61-*M/S739**	**RSM 61-*M/S739** **WSM 61-*M/S739**	ITC/PLTC PVC Yellow, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50637-*M, Shielded cable with drain wire, not connected at plug, 600 V	1. GN 2. WH 3. BU 4. Gy 5. YE 6. BN	
RSM ..** 					
WSM ..** 	**RKM 61-*M/S763** **WKM 61-*M/S763**	**RSM 61-*M/S763** **WSM 61-*M/S763**	ITC/PLTC PVC Black, 6x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50551-*M, Shielded cable with drain wire, not connected at plug, 600 V	1. BU 2. WH 3. BK 4. GN 5. RD 6. OG	Male 

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM ..."; "RK ..." indicates nylon, "RKV ..." indicates stainless steel, and "RKVH ..." indicates stainless steel hex.

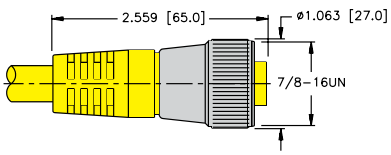
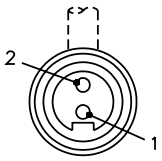
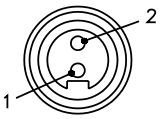
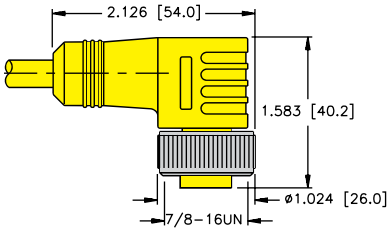
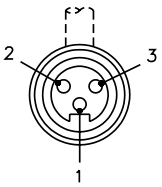
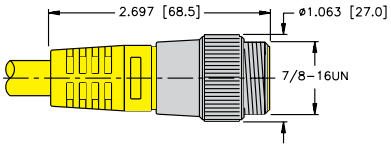
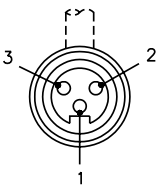
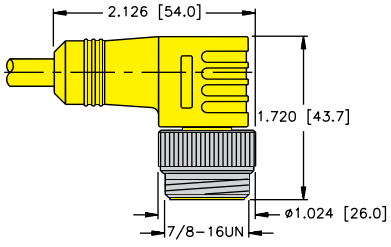
We reserve the right to make technical alterations without prior notice.

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

TURCK

2 and 3-Wire Cordsets, Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 10 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout
RKM ..** 	**RKM 26-*M** **WKM 26-*M**	**RSM 26-*M** **WSM 26-*M**	STOOW PVC Yellow 2x16 AWG, 105 °C, 9.6 mm OD, Cable #RF50561-*M, Flexlife®	1. WH 2. BK	Female  Male 
WKM ..** 	**RKM 35-*M** **WKM 35-*M**	**RSM 35-*M** **WSM 35-*M**	STOOW PVC Yellow, 3x16 AWG, 105 °C, 10.0 mm OD, Cable #RF50537-*M, Flexlife	1. GN 2. RD/BK 3. RD/WH	Female 
RSM ..** 	**RKM 35-*M/S600** **WKM 35-*M/S600**	**RSM 35-*M/S600** **WSM 35-*M/S600**	SOOW CPE Yellow, 3x16 AWG, 105 °C, 10.3 mm OD, Cable #RF50596-*M, Weld Flash Immune, Flame Immune	1. GN 2. RD 3. RD	
	RKM 36-*M **WKM 36-*M**	**RSM 36-*M** **WSM 36-*M**	STOOW PVC Yellow, 3x16 AWG, 105 °C, 10.0 mm OD, Cable #RF50536-*M, Flexlife	1. GN 2. BK 3. WH	Male 
WSM..** 	**RKM 36-*M/S1587** **WKM 36-*M/S1587**	**RSM 36-*M/S1587** **WSM 36-*M/S1587**	SEOOW/STOOW TPE Yellow, 3x16 AWG, 105 °C, 10.0 mm OD, Cable #RF51563-*M, Weldlife, Weld Flash Immune		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

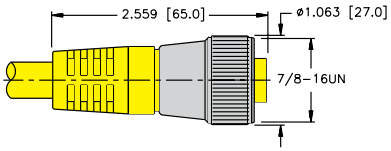
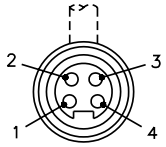
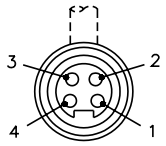
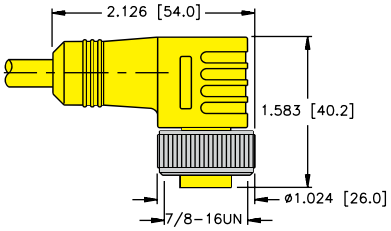
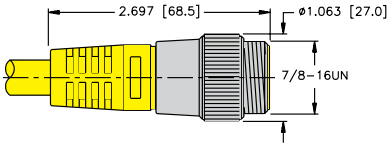
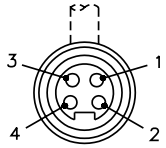
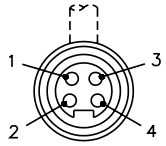
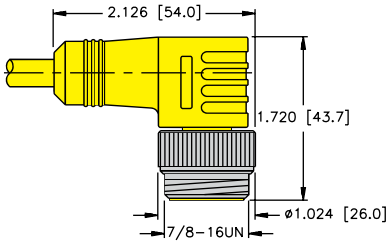
** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Cordsets, Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 10 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 46-*M** **WKM 46-*M**	**RSM 46-*M** **WSM 46-*M**	STOOW PVC Yellow, 4x16 AWG, 105 °C, 10.8 mm OD, Cable #RF50538-*M, Flexlife®	1. BK 2. WH 3. RD 4. GN	Female  Male 
WKM ..** 	**RKM 46-*M/S600** **WKM 46-*M/S600**	**RSM 46-*M/S600** **WSM 46-*M/S600**	SOOW CPE Yellow, 4x16 AWG, 105 °C, 11 mm OD, Cable #RF50595-*M, Weld Flash Immune, Flame Immune		
	RKM 46-*M/S824 **WKM 46-*M/S824**	**RSM 46-*M/S824** **WSM 46-*M/S824**	TC PVC Yellow, 4x16 AWG, 90 °C, 9.2 mm OD, Cable #RF51220-*M, Tray Rated		
RSM ..** 	**RKM 47-*M** **WKM 47-*M**	**RSM 47-*M** **WSM 47-*M**	STOOW PVC Yellow, 4x16 AWG, 105 °C, 10.8 mm OD, Cable #RF50626-*M, Flexlife	1. BN 2. WH 3. BU 4. GN/YE	Female  Male 
WSM ..** 					

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

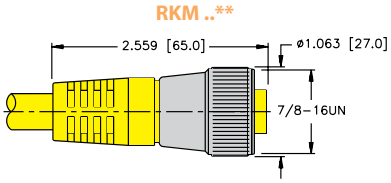
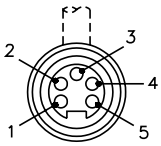
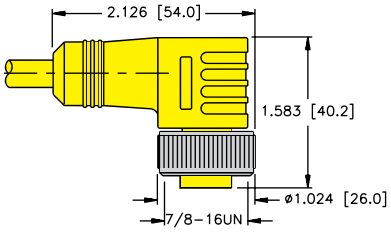
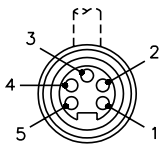
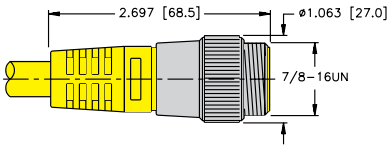
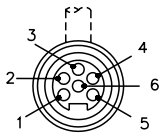
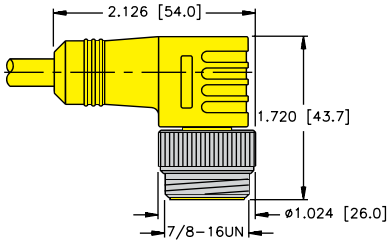
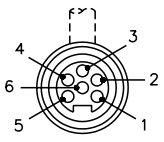
We reserve the right to make technical alterations without prior notice.

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

TURCK

5 and 6-Wire Cordsets, Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 10 A (5-pin), 8 A (6-pin)

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 55-*M** **WKM 55-*M**	**RSM 55-*M** **WSM 55-*M**	STOOW PVC Yellow, 5x16 AWG, 105 °C,12.7 mm OD, Cable #RF50540-*M, Flexlife®	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	Female 
	RKM 55-*M/S600 **WKM 55-*M/S600**	**RSM 55-*M/S600** **WSM 55-*M/S600**	SOOW CPE Yellow, 5x16 AWG, 105 °C, 13 mm OD, Cable #RF50597-*M, Weld Flash Immune, Flame Immune	1. RD 2. RD 3. GN 4. RD 5. RD	
WKM ..** 	**RKM 56-*M** **WKM 56-*M**	**RSM 56-*M** **WSM 56-*M**	STOOW PVC Yellow, 5x16 AWG, 105 °C, 12.7 mm OD, Cable #RF50539-*M, Flexlife	1. WH 2. RD 3. GN 4. OG 5. BK	Male 
	RKM 56-*M/S1587 **WKM 56-*M/S1587**	**RSM 56-*M/S1587** **WSM 56-*M/S1587**	SEOOW/STOOW TPE Yellow, 5x16 AWG, 105 °C, 12.7 mm OD Cable #RF51265-*M, Weldlife, Weld Flash Immune		
RSM ..** 	**RKM 66-*M** **WKM 66-*M**	**RSM 66-*M** **WSM 66-*M**	STOOW PVC Yellow, 6x16 AWG, 105 °C, 13.6 mm OD Cable #RF50565-*M,	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	Female 
WSM ..** 	**RKM 66-*M/S1587** **WKM 66-*M/S1587**	**RSM 66-*M/S1587** **WSM 66-*M/S1587**	SEOOW TPE Yellow, 6x16 AWG, 105 °C, 13.6 mm OD, Cable #RF51564-*M, Weldlife, Weld Flash Immune		Male 

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM ..."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

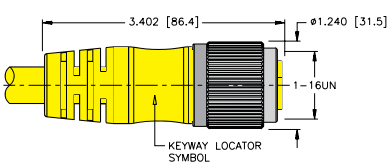
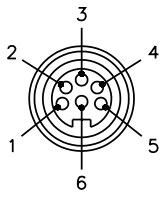
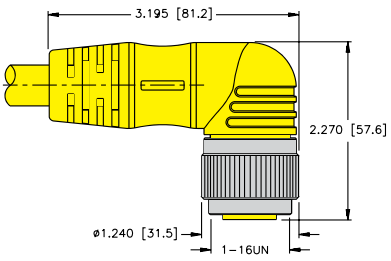
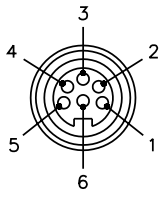
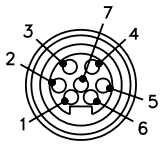
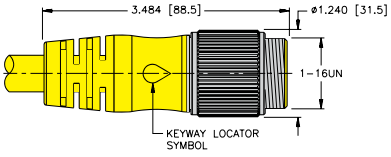
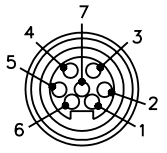
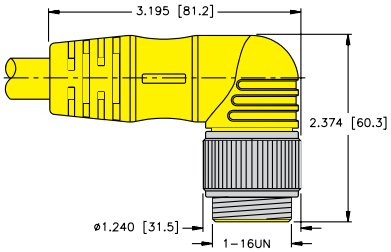
We reserve the right to make technical alterations without prior notice.

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

1" *minifast*® Connectivity Products

6 and 7-Wire Cordsets, B-Size Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 8 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 6B6-*M** **WKM 6B6-*M**	**RSM 6B6-*M** **WSM 6B6-*M**	ITC/PLTC PVC Yellow, 6x16 AWG, 105 °C, 9.0 mm OD, Cable #RF51030-*M, Flexlife®	1. OG 2. BU 3. BK 4. WH 5. RD 6. GN	Female 
	RKM 6B6-*M/S90 **WKM 6B6-*M/S90**	**RSM 6B6-*M/S90** **WSM 6B6-*M/S90**	AWM TPU Yellow, 6x16 AWG, 90 °C, 9.0 mm OD, Cable #RF51137-*M, Cut/ abrasion Immune		
WKM ..** 	**RKM 6B6-*M/S101** **WKM 6B6-*M/S101**	**RSM 6B6-*M/S101** **WSM 6B6-*M/S101**	AWM TPE Yellow, 6x16 AWG, 105 °C, 8.5 mm OD, Cable #RF51044-*M, Flexlife-20, High flex - over 20 million cycles, C-track		Male 
	RKM 76-*M **WKM 76-*M**	**RSM 76-*M** **WSM 76-*M**	ITC/PLTC PVC Yellow, 7x16 AWG, 105 °C, 9.6 mm OD, Cable #RF51031-*M, Flexlife	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female 
RSM ..** 	**RKM 76-*M/S90** **WKM 76-*M/S90**	**RSM 76-*M/S90** **WSM 76-*M/S90**	AWM TPU Yellow, 7x16 AWG, 90 °C, 9.0 mm OD, Cable #RF51138-*M, Cut/ abrasion Immune		
	RKM 76-*M/S101 **WKM 76-*M/S101**	**RSM 76-*M/S101** **WSM 76-*M/S101**	AWM TPE Yellow, 7x16 AWG, 105 °C, 9.6 mm OD, Cable #RF51049*M, Flexlife-20, High flex - over 20 million cycles, C-track		Male 
WSM ..** 	**RKM 76-*M/S1587** **WKM 76-*M/S1587**	**RSM 76-*M/S1587** **WSM 76-*M/S1587**	ITC/PLTC TPE Yellow, 7x16 AWG, 105 °C, 9.6 mm OD, Cable #RF51009-*M, Weldlife, Weld Flash Immune		

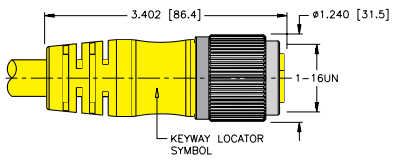
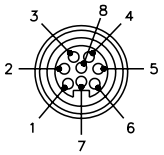
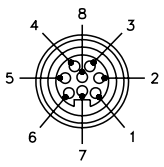
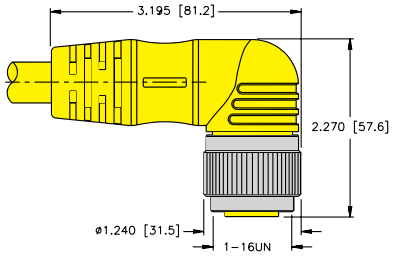
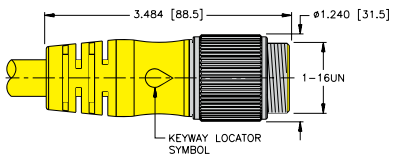
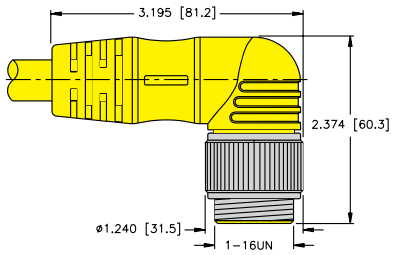
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

8-Wire Cordsets, B-Size Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 8 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 86-*M** **WKM 86-*M**	**RSM 86-*M** **WSM 86-*M**	ITC PLTC PVC Yellow, 8x16 AWG, 105 °C, 10.0 mm OD, Cable #RF51032-*M, Flexlife®	1. OG 2. BU 3. WH/BK 4. BK 5. WH 6. RD 7. GN 8. RD/BK	Female  Male 
WKM ..** 	**RKM 86-*M/S90** **WKM 86-*M/S90**	**RSM 86-*M/S90** **WSM 86-*M/S90**	AWM TPU Yellow, 8x16 AWG, 90 °C, 10.0 mm OD, Cable #RF51139-*M, Cut/abrasion Immune		
RSM ..** 	**RKM 86-*M/S101** **WKM 86-*M/S101**	**RSM 86-*M/S101** **WSM 86-*M/S101**	AWM TPE Yellow, 8x16, 105 °C, 10.5 mm OD, Cable #RF51050-*M, Flexlife-20, High flex - over 20 million cycles C-track		
WSM ..** 	**RKM 86-*M/S1587** **WKM 86-*M/S1587**	**RSM 86-*M/S1587** **WSM 86-*M/S1587**	ITC/PLTC TPE Yellow, 8x16 AWG, 105 °C, 10.0 mm OD, Cable #RF51011-*M, Weldlife, Weld Flash Immune		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

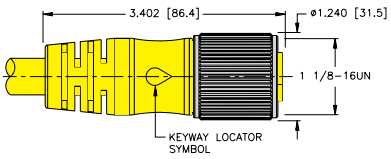
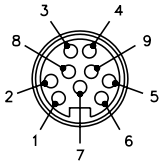
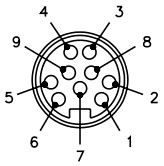
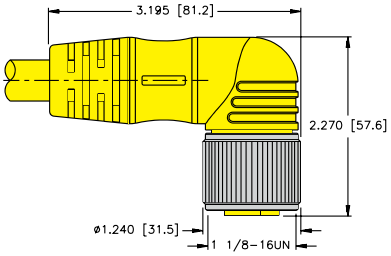
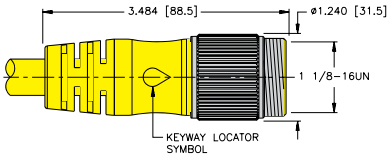
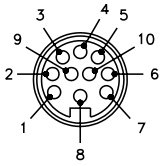
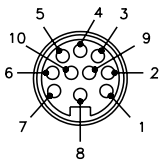
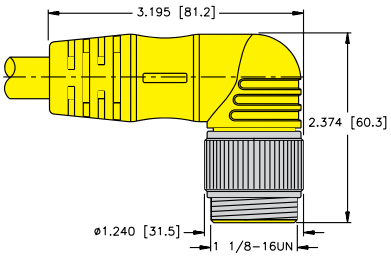
We reserve the right to make technical alterations without prior notice.

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

1 1/8" *minifast*® Connectivity Products

9 and 10-Wire Cordsets, C-Size Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 7 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 96-*M** **WKM 96-*M**	**RSM 96-*M** **WSM 96-*M**	ITC/PLTC PVC Yellow, 9x16 AWG, 105 °C, 11.3 mm OD, Cable #RF51033-*M, Flexlife®	1. OG 2. BU 3. RD/BK 4. GN/BK 5. WH 6. RD 7. GN 8. WH/BK 9. BK	Female  Male 
	RKM 96-*M/S90 **WKM 96-*M/S90**	**RSM 96-*M/S90** **WSM 96-*M/S90**	AWM TPU Yellow, 9x16 AWG, 90 °C, 10.5 mm OD, Cable #RF51140-*M, Cut/abrasion Immune		
WKM ..** 	**RKM 96-*M/S101** **WKM 96-*M/S101**	**RSM 96-*M/S101** **WSM 96-*M/S101**	AWM TPE Yellow, 12x16 AWG, 105 °C, 13.7 mm OD, Cable #RF51148-*M, Flexlife-20, High flex - over 20 million cycles, C-track		
	RKM 96-*M/S1587 **WKM 96-*M/S1587**	**RSM 96-*M/S1587** **WSM 96-*M/S1587**	ITC/PLTC TPE Yellow, 9x16 AWG, 105 °C, 11.2 mm OD, Cable #RF51013-*M, Weldlife, Weld Flash Immune		
RSM ..** 	**RKM 106-*M** **WKM 106-*M**	**RSM 106-*M** **WSM 106-*M**	ITC/PLTC PVC Yellow, 10x16 AWG, 105 °C, 12.0 mm OD, Cable #RF51034-*M, Flexlife	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. RD 8. GN 9. BK 10. WH	Female  Male 
	RKM 106-*M/S90 **WKM 106-*M/S90**	**RSM 106-*M/S90** **WSM 106-*M/S90**	AWM TPU Yellow, 10x16 AWG, 90 °C, 12.0 mm OD, Cable #RF51141-*M, Cut/abrasion Immune		
WSM ..** 	**RKM 106-*M/S101** **WKM 106-*M/S101**	**RSM 106-*M/S101** **WSM 106-*M/S101**	AWM TPE Yellow, 12x16 AWG, 105 °C, 13.7 mm OD, Cable #RF51148-*M, Flexlife-20, High flex - over 20 million cycles, C-track		
	RKM 106-*M/S1587 **WKM 106-*M/S1587**	**RSM 106-*M/S1587** **WSM 106-*M/S1587**	ITC/PLTC TPE Yellow, 10x16 AWG, 105 °C, 12.0 mm OD, Cable #RF51015-*M Weldlife, Weld Flash Immune		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

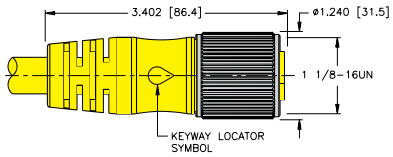
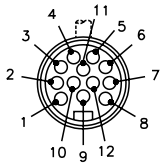
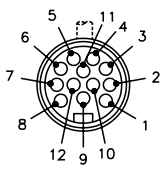
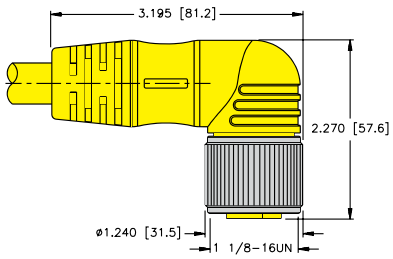
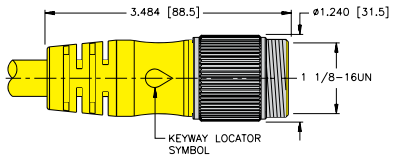
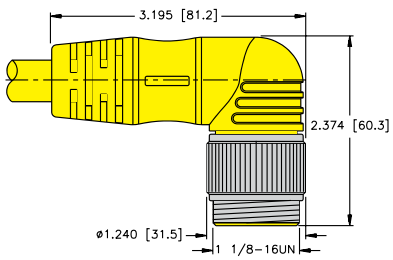
We reserve the right to make technical alterations without prior notice.

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

TURCK

8-Wire Cordsets, B-Size Heavy Duty

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 250 V, 4 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..** 	**RKM 126-*M** **WKM 126-*M**	**RSM 126-*M** **WSM 126-*M**	ITC/PLTC PVC Yellow, 12x16 AWG, 105 °C, 12.5 mm OD, Cable #RF51035-*M, Flexlife®	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 8. BK/WH 9. GN 10. RD 11. WH 12. BK	Female  Male 
WKM ..** 	**RKM 126-*M/S90** **WKM 126-*M/S90**	**RSM 126-*M/S90** **WSM 126-*M/S90**	AWM TPU Yellow, 12x16 AWG, 90 °C, 12.4 mm OD, Cable #RF51142-*M, Cut/abrasion Immune		
RSM ..** 	**RKM 126-*M/S101** **WKM 126-*M/S101**	**RSM 126-*M/S101** **WSM 126-*M/S101**	AWM TPE Yellow, 12x16 AWG, 105 °C, 13.7 mm OD, Cable #RF51148-*M, Flexlife-20, High flex - over 20 million cycles, C-track		
WSM ..** 	**RKM 126-*M/S1587** **WKM 126-*M/S1587**	**RSM 126-*M/S1587** **WSM 126-*M/S1587**	ITC/PLTC TPE Yellow, 12x16 AWG, 105 °C, 12.5 mm OD, Cable #RF51017-*M, Weldlife, Weld Flash Immune		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

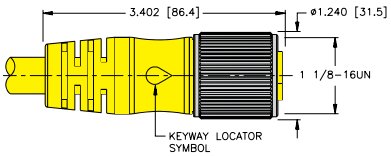
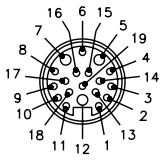
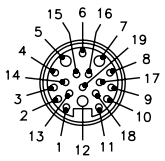
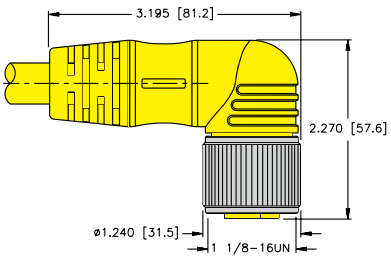
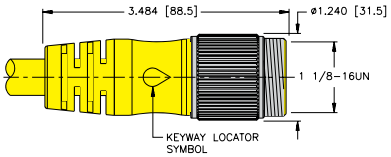
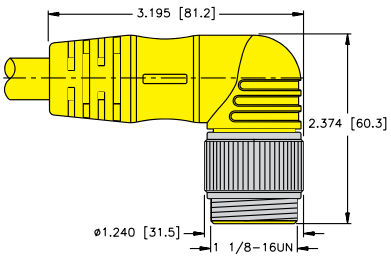
We reserve the right to make technical alterations without prior notice.

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

1 1/8" *minifast*® Connectivity Products

19-Wire Cordsets, C-Size Heavy Duty

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM .. ** 	**RKM 190-*M** **WKM 190-*M**	**RSM 190-*M** **WSM 190-*M**	ITC/PLTC PVC Yellow, 3x18, 16x22 AWG, 105 °C, 300 VAC/VDC, 4 A (pins 5, 7, & 12), 2 A (all other pins), 10.0 mm OD, Cable #RF50620-*M, Flexlife®	1. VT 2. RD 3. GY 4. RD/BU 5. BU 6. GN 7. BN 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. GY/PK	**Female**  **Male** 
WKM ..** 	**RKM 190-*M/S90** **WKM 190-*M/S90**	**RSM 190-*M/S90** **WSM 190-*M/S90**	AWM TPU Yellow, 3x18, 16x22 AWG, 90 °C, 300 VAC/VDC, 4 A (pins 5, 7, & 12), 2 A (all other pins), 10.0 mm OD, Cable #RF50682-*M, Cut/abrasion Immune		
RSM .. ** 	**RKM 190-*M/S101** **WKM 190-*M/S101**	**RSM 190-*M/S101** **WSM 190-*M/S101**	AWM TPE Yellow, 3x18, 16x22 AWG, 105 °C, 300 VAC/VDC, 4 A (pins 5, 7, & 12), 2 A (all other pins), 11.2 mm OD, Cable #RF50916-*M, Flexlife-20, High flex - over 20 million cycles, C-track		
WSM ..** 	**RKM 190-*M/S760** **WKM 190-*M/S760**	**RSM 190-*M/S760** **WSM 190-*M/S760**	ITC/PLTC PVC Black, 3x18, 16x22 AWG, 105 °C, 300 VAC/VDC, 4 A (pins 5, 7, & 12), 2 A (all other pins), 10.0 mm OD, Cable #RF50733-*M, Flexlife		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

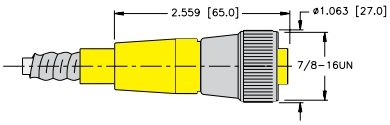
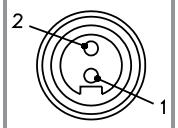
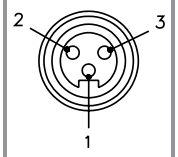
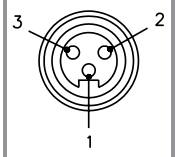
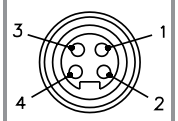
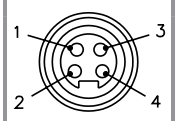
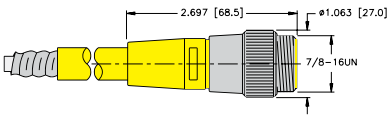
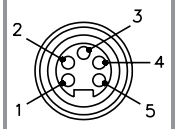
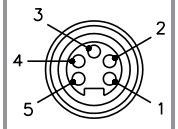
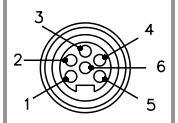
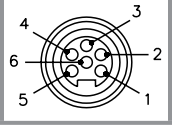
We reserve the right to make technical alterations without prior notice.

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

TURCK

2-6 Wire Extreme Duty, Armored Cordsets

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 300 V, 9 A (2-5-pin), 8 A (6-pin)

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..A** 	**RKM 28A-*M**	**RSM 28A-*M**	MC ITC/PLTC PVC Armor Yellow, 2x18 AWG, 105 °C, 14.4 mm OD, Cable #RF51039-*M, Armor Cable for Extreme Conditions, CSA Approved ITCERDB	1. WH 2. BK	Female/Male 
	RKM 38A-*M	**RSM 38A-*M**	MC ITC/PLTC PVC Armor Yellow, 3x18 AWG, 105 °C, 14.9 mm OD, Cable #RF51040-*M, Armor Cable for Extreme Conditions, CSA Approved ITCERDB	1. GN 2. BK 3. WH	Female  Male 
	RKM 48A-*M	**RSM 48A-*M**	MC ITC/PLTC PVC Armor Yellow, 4x18 AWG, 105 °C, 15.2 mm OD, Cable #RF51041-*M, Armor Cable for Extreme Conditions, CSA Approved ITCERDB	1. BK 2. WH 3. RD 4. GN	Female  Male 
RSM ..A** 	**RKM 58A-*M**	**RSM 58A-*M**	MC PVC Armor Yellow, 5x18 AWG, 90 °C, 14.9 mm OD, Cable #RF51042-*M, Armor Cable for Extreme Conditions ITCERDB	1. WH 2. RD 3. GN 4. OG 5. BK	Female  Male 
	RKM 68A-*M	**RSM 68A-*M**	MC PVC Armor Yellow, 6x18 AWG, 90 °C, 14.9 mm OD, Cable #RF51043-*M, Armor Cable for Extreme Conditions ITCERDB	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	Female  Male 

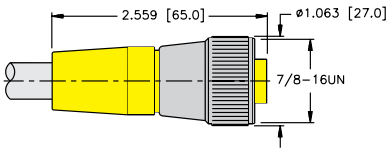
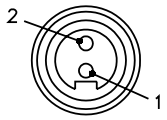
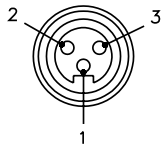
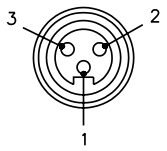
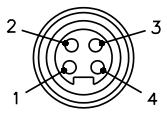
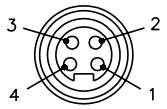
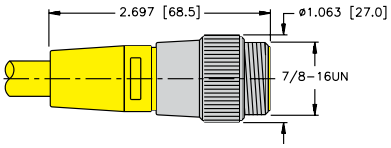
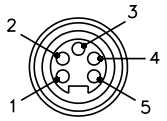
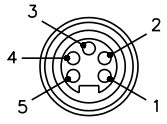
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM .."; "RKV .." indicates stainless steel.

We reserve the right to make technical alterations without prior notice.

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

2-5 Wire Cordsets, Smooth Body

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..D** 	**RKM 26D-*M**	**RSM 26D-*M**	STOOW PVC Yellow 2x16 AWG, 105 °C, 9.6 mm OD, Cable #RF50561-*M, Flexlife®	1. WH 2. BK	Female/Male 
	RKM 35D-*M	**RSM 35D-*M**	STOOW PVC Yellow, 3x16 AWG, 105 °C, 10.0 mm OD, Cable #RF50537-*M, Flexlife	1. GN 2. RD/BK 3. RD/WH	Female 
	RKM 36D-*M	**RSM 36D-*M**	STOOW PVC Yellow, 3x16 AWG, 105 °C, 10.0 mm OD, Cable #RF50536-*M, Flexlife	1. GN 2. BK 3. WH	Male 
	RKM 46D-*M	**RSM 46D-*M**	STOOW PVC Yellow, 4x16 AWG, 105 °C, 10.8 mm OD, Cable #RF50538-*M, Flexlife	1. BK 2. WH 3. RD 4. GN	Female  Male 
RSM ..D** 	**RKM 56D-*M**	**RSM 56D-*M**	STOOW PVC Yellow, 5x16 AWG, 105 °C, 12.7 mm OD, Cable #RF50539-*M, Flexlife	1. WH 2. RD 3. GN 4. OG 5. BK	Female  Male 

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "RKM ..."; "RKV .." indicates stainless steel.

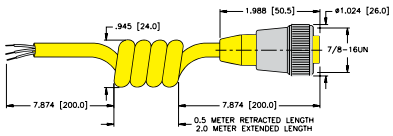
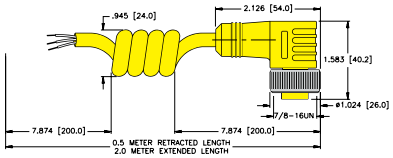
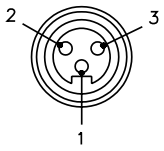
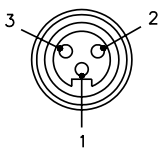
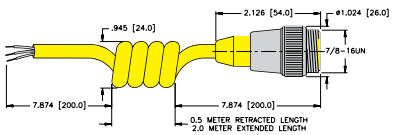
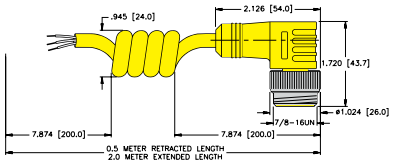
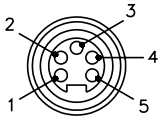
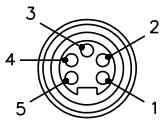
We reserve the right to make technical alterations without prior notice.

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

TURCK

3 and 5-Wire Spiral Cordsets, Standard

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 300 V, 9 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
RKM ..**  WKM ..** 	**RKM 30-2M/S90-SP** **WKM 30-2M/S90-SP**	**RSM 30-2M/S90-SP** **WSM 30-2M/S90-SP**	AWM TPU Yellow 3x18 AWG, 90 °C, 300 V, 9 A, 7.2 mm OD, for repetitive 2-wire AC with ground or 3-wire applications	1. GN/YE 2. BN 3. BU	Female  Male 
RSM ..**  WSM ..** 	**RKM 50-1M/S90-SP** **WKM 50-1M/S90-SP**	**RSM 50-1M/S90-SP** **WSM 50-1M/S90-SP**	AWM TPU Yellow 5x18 AWG, 90 °C, 300 V, 9 A, 7.2 mm OD, for repetitive 5-wire AC applications	1. BK 2. BU 3. GN 4. BN 5. WH	Female  Male 

Standard cable lengths are 2 (3-wire) and 1 (5-wire) meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RKV .." indicates stainless steel.

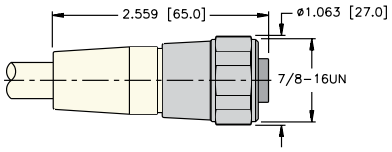
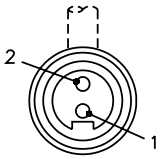
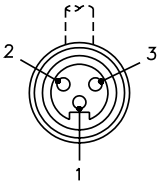
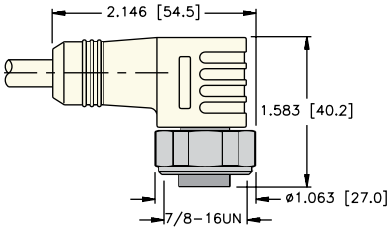
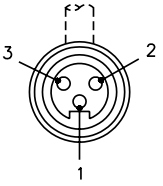
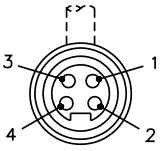
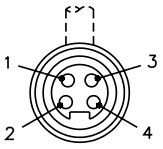
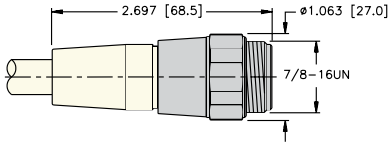
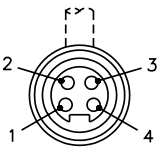
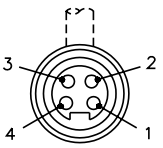
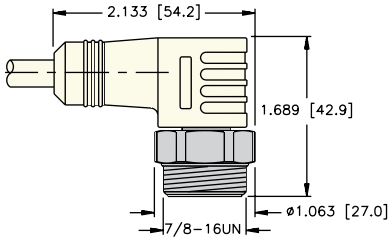
We reserve the right to make technical alterations without prior notice.

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

7/8" *minifast*® Connectivity Products

2, 3, and 4-Wire Washdown Cordsets

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- Polypropylene Contact Holder, Mold Material and Cable Jacket
- High Chemical Solvent Resistance & Tensile Strength

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WD-RKV ..** 	**WD-RKV 20-*M** **WD-WKV 20-*M**	**WD-RSV 20-*M** **WD-WSV 20-*M**	PP White, 2x18 AWG, 105 °C, 300 V, 9 A, 5.1 mm OD, Cable #RF51441-*M	1. BN 2. BU	Female 
	WD-RKV 26-*M **WD-WKV 26-*M**	**WD-RSV 26-*M** **WD-WSV 26-*M**	PP White, 2x16 AWG, 105 °C, 600 V, 10 A, 6.2 mm OD, Cable #RF51442-*M	1. WH 2. BK	
	WD-RKV 30-*M **WD-WKV 30-*M**	**WD-RSV 30-*M** **WD-WSV 30-*M**	PP White, 3x18 AWG, 105 °C, 300 V, 9 A, 5.7 mm OD, Cable #RF51443-*M	1. GN/YE 2. BN 3. BU	Female 
WD-WKV ..** 	**WD-RKV 36-*M** **WD-WKV 36-*M**	**WD-RSV 36-*M** **WD-WSV 36-*M**	PP White, 3x16 AWG, 105 °C, 600 V, 10 A, 7.2 mm OD, Cable #RF51444-*M	1. GN 2. BK 3. WH	Male 
	WD-RKV 40-*M **WD-WKV 40-*M**	**WD-RSV 40-*M** **WD-WSV 40-*M**	PP White, 4x18 AWG, 105 °C, 300 V, 9 A, 6.2 mm OD, Cable #RF51445-*M	1. BN 2. WH 3. BU 4. BK	Female  Male 
WD-RSV ..** 					
	WD-RKV 46-*M **WD-WKV 46-*M**	**WD-RSV 46-*M** **WD-WSV 46-*M**	PP White, 4x16 AWG, 105 °C, 600 V, 10 A, 7.2 mm OD, Cable #RF51446-*M	1. BK 2. WH 3. RD 4. GN	Female  Male 
WD-WSV ..** 					

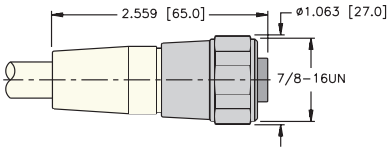
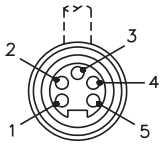
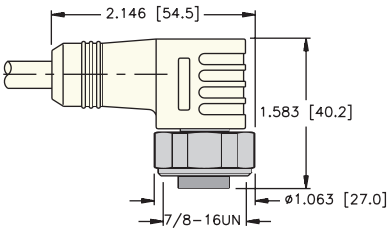
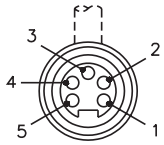
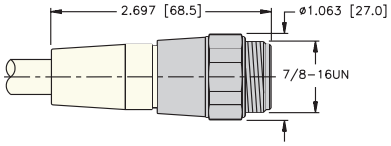
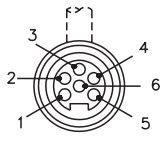
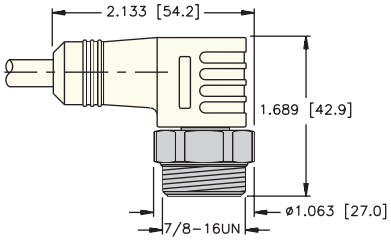
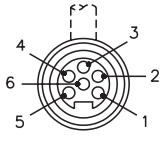
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is stainless steel.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Washdown Cordsets

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- Polypropylene Contact Holder, Mold Material and Cable Jacket
- High Chemical Solvent Resistance & Tensile Strength

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
WD-RKV ..** 	**WD-RKV 50-*M** **WD-WKV 50-*M**	**WD-RSV 50-*M** **WD-WSV 50-*M**	PP White, 5x18 AWG, 105 °C, 300 V, 9 A, 7.2 mm OD, Cable #RF51447-*M	1. BK 2. BU 3. GN/YE 4. BN 5. WH	Female 
WD-WKV ..** 	**WD-RKV 56-*M** **WD-WKV 56-*M**	**WD-RSV 56-*M** **WD-WSV 56-*M**	PP White, 5x16 AWG, 105 °C, 600 V, 10 A, 7.2 mm OD, Cable #RF51448-*M	1. WH 2. RD 3. GN 4. OG 5. BK	Male 
WD-RSV ..** 	**WD-RKV 60-*M** **WD-WKV 60-*M**	**WD-RSV 60-*M** **WD-WSV 60-*M**	PP White, 6x18 AWG, 105 °C, 300 V, 8 A, 7.2 mm OD, Cable #RF51449-*M	1. GN 2. WH 3. BU 4. GY 5. YE 6. BN	Female 
WD-WSV ..** 	**WD-RKV 66-*M** **WD-WKV 66-*M**	**WD-RSV 66-*M** **WD-WSV 66-*M**	PP White, 6x16 AWG, 105 °C, 600 V, 8 A, 8.0 mm OD, Cable #RF51450-*M	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	Male 

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is stainless steel.

We reserve the right to make technical alterations without prior notice.

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

Receptacle Selection Guide

Mounting Style	Image	Panel Thread Types	Page
Front Mount		1/2-14 NPSM	F25
		1/2-14 NPT	F29, F36, F38, F40
		M20	F32-F35, F41
		3/4-14 NPT	F37, F39, F40
		PG16	F41
Rear Mount		M30	F42
		Bulkhead Feed-thru	F47
PCB Mount		PCB Pins	F45

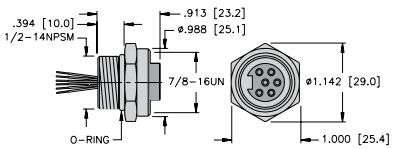
We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

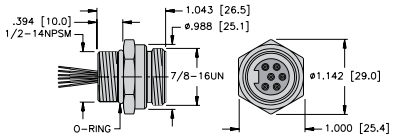
- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

RKF ..

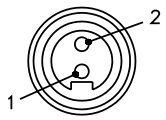
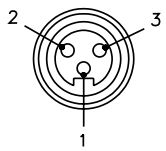
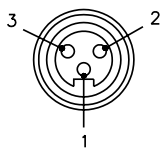


Typical panel cutout 22.5 mm

RSF ..



Typical panel cutout 22.5 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	RKF 20-*M	RSF 20-*M	2x18 AWG 105 °C, 600 V, 9 A, standard duty	1. BN 2. BU	Female/Male 
	RKF 26-*M	RSF 26-*M	2x16 AWG Leads, 105 °C, 600 V, 10 A, heavy duty	1. WH 2. BK	
	RKF 28-*M	RSF 28-*M	2x18 AWG, 105 °C, 600 V, 9 A, heavy duty	1. WH 2. BK	
	RKF 30-*M	RSF 30-*M	3x18 AWG, 105 °C, 600 V, 9 A, standard duty	1. GY/YE 2. BN 3. BU	Female 
	RKF 31-*M	RSF 31-*M	3x18 AWG, 105 °C, 600 V, 9 A, standard duty	1. BK 2. BN 3. BU	
	RKF 311-*M	RSF 311-*M	3x18 AWG, 105 °C, 600 V, 9 A, automotive color code	1. GN 2. RD/BK 3. RD/WH	
	RKF 35-*M	RSF 35-*M	3x16 AWG, 105 °C, 600 V, 10 A, automotive color code		
	RKF 36-*M	RSF 36-*M	3x16 AWG, 105 °C, 600 V, 10 A, heavy duty	1. GN 2. BK 3. WH	Male 
	RKF 38-*M	RSF 38-*M	3x18 AWG, 105 °C, 600 V, 9 A, heavy duty	1. GN 2. BK 3. WH	

Standard lead length is 0.3 meters. Consult factory for other lengths.

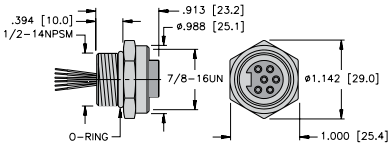
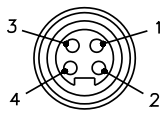
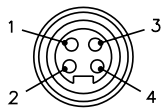
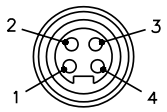
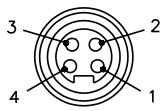
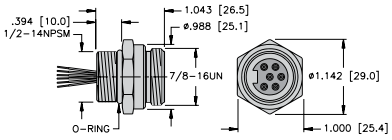
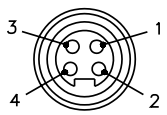
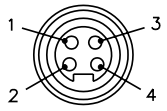
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..  Typical panel cutout 22.5 mm	**RKF 40-*M**	**RSF 40-*M**	4x18 AWG 105 °C, 600 V, 9 A, standard duty	1. BN 2. WH 3. BU 4. BK	Female  Male 
	RKF 46-*M	**RSF 46-*M**	4x16 AWG, 105 °C, 600 V, 10 A, heavy duty	1. BK 2. WH 3. RD 4. GN	Female  Male 
RSF ..  Typical panel cutout 22.5 mm	**RKF 48-*M**	**RSF 48-*M**	3x18 AWG, 105 °C, 600 V, 9 A, standard duty	1. BN 2. N/C 3. BU 4. N/C	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

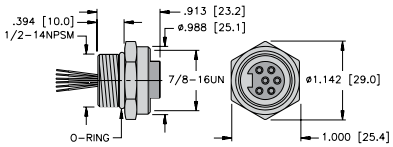
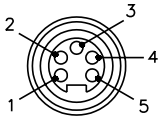
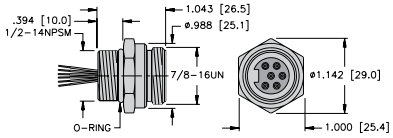
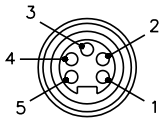
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing.
For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..  Typical panel cutout 22.5 mm	**RKF 50-*M**	**RSF 50-*M**	5x18 AWG, 105 °C, 600 V, 9 A, standard duty	1. BK 2. BU 3. GN/YE 4. BN 5. WH	Female 
	RKF 511-*M	**RSF 511-*M**	5x18 AWG, 105 °C, 600 V, 9 A, automotive color code	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	
	RKF 55-*M	**RSF 55-*M**	5x16 AWG, 105 °C, 600 V, 10 A, automotive color code	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	
RSF ..  Typical panel cutout 22.5 mm	**RKF 56-*M**	**RSF 56-*M**	5x16 AWG, 105 °C, 600 V, 10 A, heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK	Male 
	RKF 58-*M	**RSF 58-*M**	5x18 AWG, 105 °C, 300 V, 9 A, heavy duty		

Standard lead length is 0.3 meters. Consult factory for other lengths.

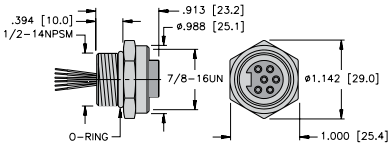
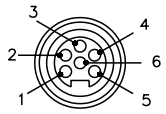
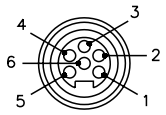
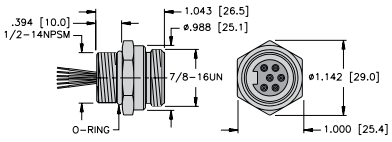
** Standard housing material is nickel plated brass.. "RSF .."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6-Wire Receptacles, Front Mount, 1/2-14 NPSM Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..  Typical panel cutout 22.5 mm	RKF 61-*M	RSF 61-*M	6x18 AWG, 105 °C, 600 V, 8 A, standard threads	1. GN 2. WH 3. BU 4. Gy 5. YE 6. BN	Female 
RKF 66-*M	RSF 66-*M	6x16 AWG, 105 °C, 600 V, 8 A, heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	Male 
RSF ..  Typical panel cutout 22.5 mm	RKF 68-*M	RSF 68-*M	6x18 AWG, 105 °C, 600 V, 8 A, heavy duty		

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF .."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing.
For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

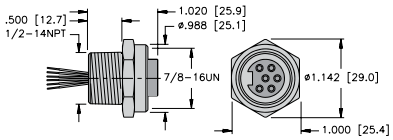
We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

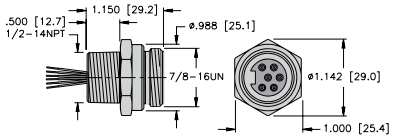
- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

RKF ..NPT

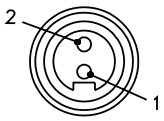
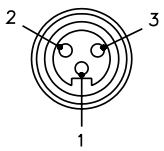
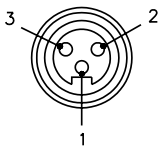


Typical panel cutout 22.5 mm

RSF ..NPT



Typical panel cutout 22.5 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	RKF 20-*M/NPT	RSF 20-*M/NPT	2x18 AWG, 105 °C, 9 A, standard duty	1. BN 2. BU	Female/Male 
	RKF 26-*M/NPT	RSF 26-*M/NPT	2x16 AWG Leads, 105 °C, 10 A, heavy duty	1. WH 2. BK	
	RKF 28-*M/NPT	RSF 28-*M/NPT	2x18 AWG, 105 °C, 600 V, 9 A, heavy duty	1. WH 2. BK	
	RKF 30-*M/NPT	RSF 30-*M/NPT	3x18 AWG, 105 °C, 9 A, standard duty	1. GY/YE 2. BN 3. BU	Female 
	RKF 31-*M/NPT	RSF 31-*M/NPT	3x18 AWG, 105 °C, 9 A, standard duty	1. BK 2. BN 3. BU	
	RKF 311-*M/NPT	RSF 311-*M/NPT	3x18 AWG, 105 °C, 9 A, automotive color code	1. GN 2. RD/BK 3. RD/WH	
	RKF 35-*M/NPT	RSF 35-*M/NPT	3x16 AWG, 105 °C, 10 A, automotive color code		Male 
	RKF 36-*M/NPT	RSF 36-*M/NPT	3x16 AWG, 105 °C, 10 A, heavy duty	1. GN 2. BK 3. WH	
	RKF 38-*M/NPT	RSF 38-*M/NPT	3x18 AWG, 105 °C, 600 V, 9 A, heavy duty	1. GN 2. BK 3. WH	

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

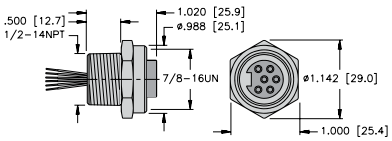
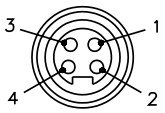
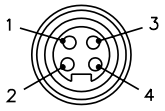
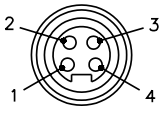
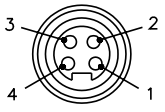
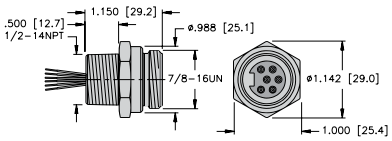
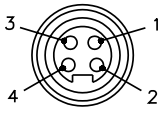
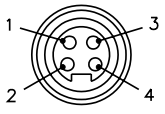
We reserve the right to make technical alterations without prior notice.

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

7/8" *minifast*® Connectivity Products

4-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..NPT  Typical panel cutout 22.5 mm	RKF 40-*M/NPT	RSF 40-*M/NPT	4x18 AWG, 105 °C, 9 A, standard duty	1. BN 2. WH 3. BU 4. BK	Female  Male 
	RKF 46-*M/NPT	RSF 46-*M/NPT	4x16 AWG, 105 °C, 10 A, heavy duty	1. BK 2. WH 3. RD 4. GN	Female  Male 
RSF ..NPT  Typical panel cutout 22.5 mm	RKF 48A-*M/NPT	RSF 48A-*M/NPT	4x18 AWG, 105 °C, 9 A, heavy duty		Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

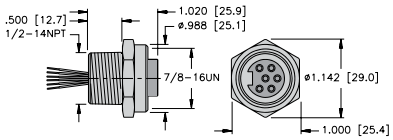
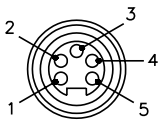
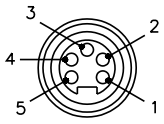
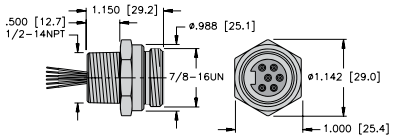
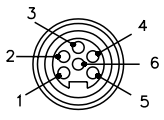
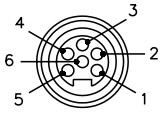
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Receptacles, Front Mount, 1/2-14 NPT Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..NPT  Typical panel cutout 22.5 mm	RKF 50-*M/NPT	RSF 50-*M/NPT	5x18 AWG, 105 °C, 9 A, standard duty	1. BK 2. BU 3. GN/YE 4. BN 5. WH	Female 
	RKF 511-*M/NPT	RSF 511-*M/NPT	5x18 AWG, 105 °C, 9 A, automotive color code	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	
	RKF 55-*M/NPT	RSF 55-*M/NPT	5x16 AWG, 105 °C, 10 A, automotive color code		
	RKF 56-*M/NPT	RSF 56-*M/NPT	5x16 AWG, 105 °C, 10 A, heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK	Male 
	RKF 58-*M/NPT	RSF 58-*M/NPT	5x18 AWG, 105 °C, 300 V, 9 A, heavy duty		
RSF ..NPT  Typical panel cutout 22.5 mm	RKF 61-*M/NPT	RSF 61-*M/NPT	6x18 AWG, 105 °C, 8 A, standard duty	1. GN 2. WH 3. BU 4. GY 5. YE 6. BN	Female 
	RKF 66-*M/NPT	RSF 66-*M/NPT	6x16 AWG, 105 °C, 8 A, heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	RKF 68-*M/NPT	RSF 68-*M/NPT	6x18 AWG, 105 °C, 600 V, 8 A, heavy duty		Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

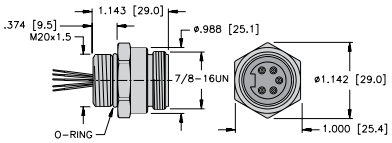
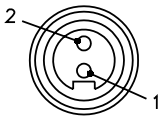
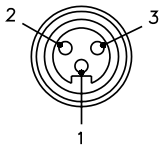
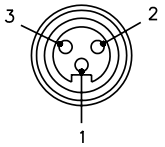
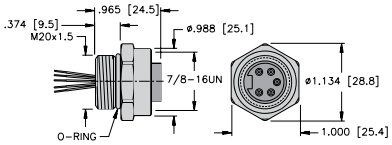
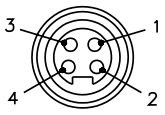
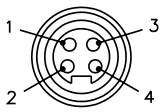
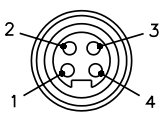
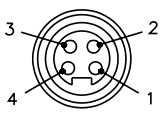
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV ..." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

2, 3 and 4-Wire Receptacles, Front Mount, M20 Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..M20  Typical panel cutout 22.5 mm	RKF 20-*M/M20	RSF 20-*M/M20	2x18 AWG, 105 °C, 9 A, standard duty	1. BN 2. BU	Female/Male 
	RKF 26-*M/M20	RSF 26-*M/M20	2x16 AWG Leads, 105 °C, 10 A, heavy duty	1. WH 2. BK	
	RKF 30-*M/M20	RSF 30-*M/M20	3x18 AWG, 105 °C, 9 A standard duty	1. GY/YE 2. BN 3. BU	Female 
	RKF 31-*M/M20	RSF 31-*M/M20	3x18 AWG, 105 °C, 9 A standard duty	1. BK 2. BN 3. BU	
	RKF 311-*M/M20	RSF 311-*M/M20	3x18 AWG, 105 °C, 9 A automotive color code	1. GN 2. RD/BK 3. RD/WH	Male 
	RKF 35-*M/M20	RSF 35-*M/M20	3x16 AWG, 105 °C, 10 A, automotive color code		
	RKF 36-*M/M20	RSF 36-*M/M20	3x16 AWG, 105 °C, 10 A, heavy duty	1. GN 2. BK 3. WH	
RSF ..M20  Typical panel cutout 22.5 mm	RKF 40-*M/M20	RSF 40-*M/M20	4x18 AWG, 105 °C, 9 A standard duty	1. BN 2. WH 3. BU 4. BK	Female  Male 
	RKF 46-*M/M20	RSF 46-*M/M20	4x16 AWG, 105 °C, 10 A heavy duty	1. BK 2. WH 3. RD 4. GN	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

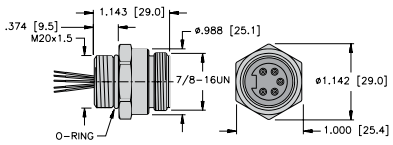
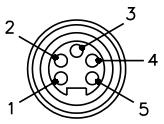
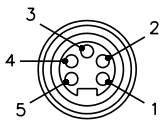
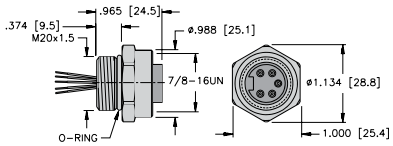
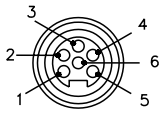
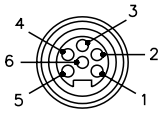
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 and 6-Wire Receptacles, Front Mount, M20 Threads

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..M20  Typical panel cutout 22.5 mm	RKF 50-*M/M20	RSF 50-*M/M20	5x18 AWG, 105 °C, 9 A standard duty	1. BK 2. BU 3. GN/YE 4. BN 5. WH	Female 
	RKF 511-*M/M20	RSF 511-*M/M20	5x18 AWG, 105 °C, 9 A automotive color code	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	
	RKF 55-*M/M20	RSF 55-*M/M20	5x16 AWG, 105 °C, 10 A, automotive color code		
	RKF 56-*M/M20	RSF 56-*M/M20	5x16 AWG, 105 °C, 10 A, heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK	Male 
RSF ..M20  Typical panel cutout 22.5 mm	RKF 61-*M/M20	RSF 61-*M/M20	6x18 AWG, 105 °C, 8 A standard duty	1. GN 2. WH 3. BU 4. GY 5. YE 6. BN	Female 
	RKF 66-*M/M20	RSF 66-*M/M20	6x16 AWG, 105 °C, 8 A heavy duty	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

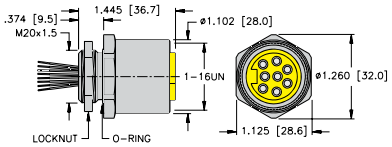
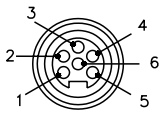
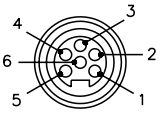
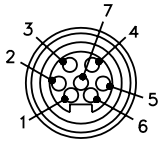
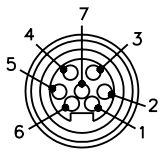
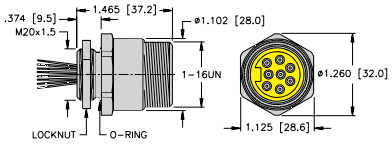
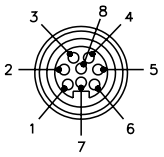
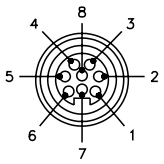
** Standard housing material is nickel plated brass.. "RSF .."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6, 7 and 8-Wire Receptacles, Front Mount, M20 Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 8 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..M20  Typical panel cutout 22.5 mm	**RKF 6B6-*M/M20**	**RSF 6B6-*M/M20**	6x16 AWG, 105 °C	1. OG 2. BU 3. BK 4. WH 5. RD 6. GN	Female  Male 
	RKF 76-*M/M20	**RSF 76-*M/M20**	7x16 AWG, 105 °C	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female  Male 
RSF ..M20  Typical panel cutout 22.5 mm	**RKF 86-*M/M20**	**RSF 86-*M/M20**	8x16 AWG, 105 °C	1. OG 2. BU 3. WH/BK 4. BK 5. WH 6. RD 7. GN 8. RD/BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

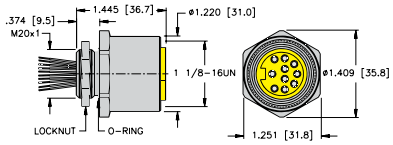
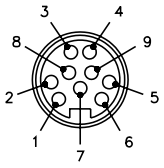
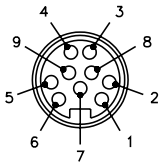
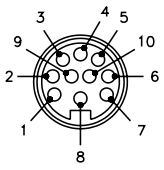
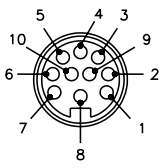
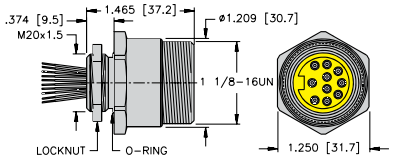
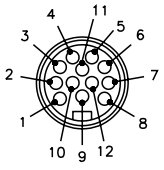
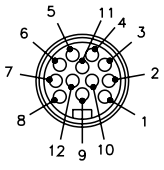
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing.
For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

9, 10 and 12-Wire Receptacles, Front Mount, M20 Threads

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 7 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..M20  Typical panel cutout 22.5 mm	**RKF 96-*M/M20**	**RSF 96-*M/M20**	9x16 AWG, 105 °C	1. OG 2. BU 3. RD/BK 4. GN/BK 5. WH 6. RD 7. GN 8. WH/BK 9. BK	Female  Male 
	RKF 106-*M/M20	**RSF 106-*M/M20**	10x16 AWG, 105 °C	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. RD 8. GN 9. BK 10. WH	Female  Male 
RSF ..M20  Typical panel cutout 22.5 mm	**RKF 126-*M/M20**	**RSF 126-*M/M20**	12x16 AWG, 105 °C	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 8. BK/WH 9. GN 10. RD/BK 11. WH 12. BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

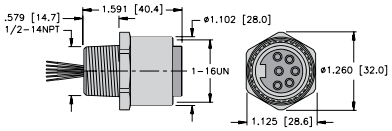
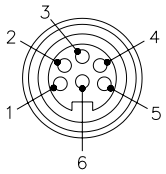
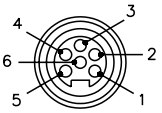
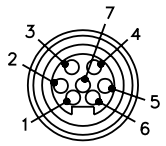
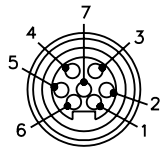
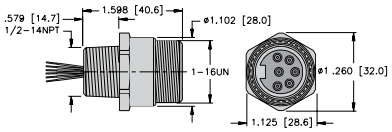
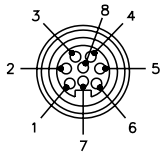
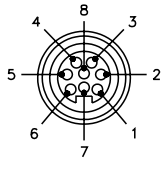
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

6, 7 and 8-Wire Receptacles, Front Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 8 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..1/2-14NPT  Typical panel cutout 22.5 mm	**RKF 6B6-*M/14.5/NPT**	**RSF 6B6-*M/14.5/NPT**	6x16 AWG, 105 °C, 1/2-14 NPT threads	1. OG 2. BU 3. BK 4. WH 5. RD 6. GN	Female  Male 
	RKF 76-*M/14.5/NPT	**RSF 76-*M/14.5/NPT**	7x16 AWG, 105 °C, 1/2-14 NPT threads	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female  Male 
RSF ..1/2-14NPT  Typical panel cutout 22.5 mm	**RKF 86-*M/14.5/NPT**	**RSF 86-*M/14.5/NPT**	8x16 AWG, 105 °C, 1/2-14 NPT threads	1. OG 2. BU 3. WH/BK 4. BK 5. WH 6. RD 7. GN 8. RD/BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing.
For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

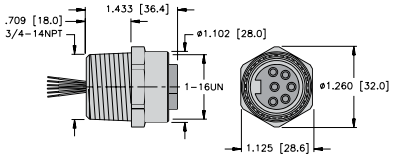
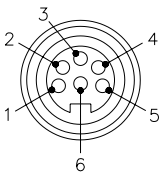
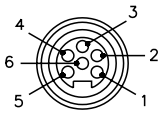
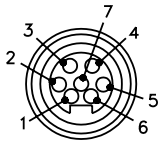
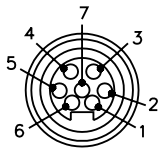
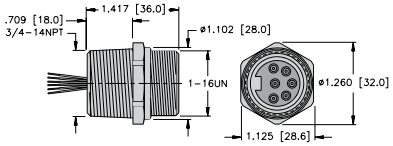
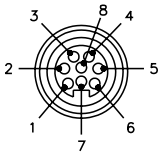
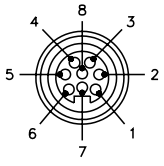
We reserve the right to make technical alterations without prior notice.

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

TURCK

6, 7 and 8-Wire Receptacles, Front Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 8 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..3/4-14NPT  Typical panel cutout 22.5 mm	RKF 6B6-*M/14.75/NPT	RSF 6B6-*M/14.75/NPT	6x16 AWG, 105 °C, 3/4-14 NPT threads	1. OG 2. BU 3. BK 4. WH 5. RD 6. GN	Female  Male 
	RKF 76-*M/14.75/NPT	RSF 76-*M/14.75/NPT	7x16 AWG, 105 °C, 3/4-14 NPT threads	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female  Male 
RSF ..3/4-14NPT  Typical panel cutout 22.5 mm	RKF 86-*M/14.75/NPT	RSF 86-*M/14.75/NPT	8x16 AWG, 105 °C, 3/4-14 NPT threads	1. OG 2. BU 3. WH/BK 4. BK 5. WH 6. RD 7. GN 8. RD/BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

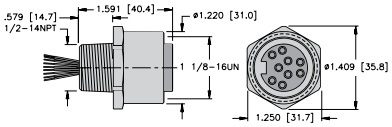
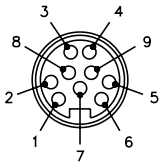
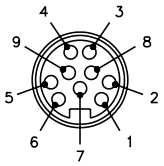
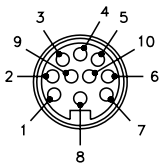
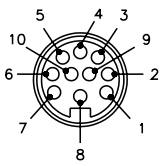
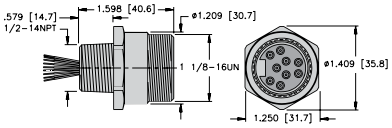
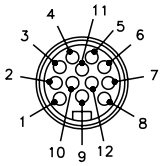
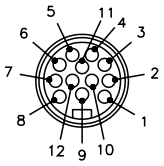
We reserve the right to make technical alterations without prior notice.

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

1 1/8" *minifast*® Connectivity Products

9, 10 and 12-Wire Receptacles, Front Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 7 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ...1/2-14NPT  Typical panel cutout 22.5 mm	RKF 96-*M/14.5/NPT	RSF 96-*M/14.5/NPT	9x16 AWG, 105 °C, 1/2-14 NPT threads	1. OG 2. BU 3. RD/BK 4. GN/BK 5. WH 6. RD 7. GN 8. WH/BK 9. BK	Female  Male 
	RKF 106-*M/14.5/NPT	RSF 106-*M/14.5/NPT	10x16 AWG, 105 °C, 1/2-14 NPT threads	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. RD 8. GN 9. BK 10. WH	Female  Male 
RSF ..1/2-14NPT  Typical panel cutout 22.5 mm	RKF 126-*M/14.5/NPT	RSF 126-*M/14.5/NPT	12x16 AWG, 105 °C, 1/2-14 NPT threads	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 8. BK/WH 9. GN 10. RD 11. WH 12. BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

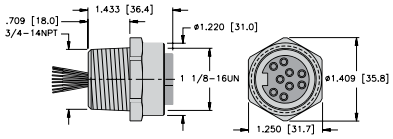
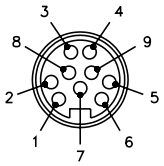
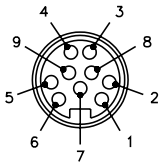
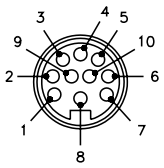
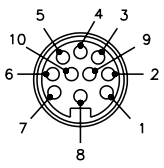
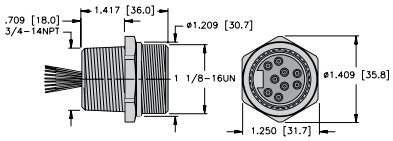
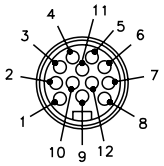
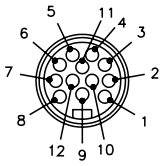
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing.
For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

9, 10 and 12-Wire Receptacles, Front Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V, 7 A

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..3/4-14NPT  Typical panel cutout 22.5 mm	RKF 96-*M/14.75/NPT	RSF 96-*M/14.75/NPT	9x16 AWG, 105 °C, 3/4-14 NPT threads	1. OG 2. BU 3. RD/BK 4. GN/BK 5. WH 6. RD 7. GN 8. WH/BK 9. BK	Female  Male 
	RKF 106-*M/14.75/NPT	RSF 106-*M/14.75/NPT	10x16 AWG, 105 °C, 3/4-14 NPT threads	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. RD 8. GN 9. BK 10. WH	Female  Male 
RSF ..3/4-14NPT  Typical panel cutout 22.5 mm	RKF 126-*M/14.75/NPT	RSF 126-*M/14.75/NPT	12x16 AWG, 105 °C, 3/4-14 NPT threads	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 8. BK/WH 9. GN 10. RD 11. WH 12. BK	Female  Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

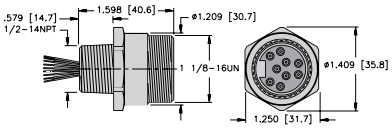
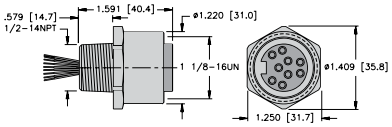
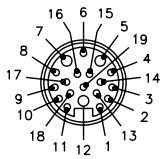
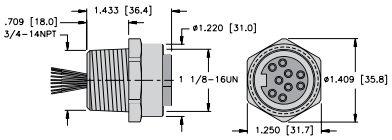
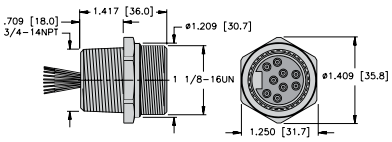
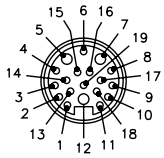
We reserve the right to make technical alterations without prior notice.

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

1 1/8" *minifast*® Connectivity Products

19-Wire Receptacles, Front Mount

- **NEMA 1, 3, 4, 6P**
- **IEC IP68 Protection**
- **300 V, 4 A (pins 5, 7, 12), 2 A (all others)**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RSF ..1/2-14NPT  Typical panel cutout 22.5 mm RKF ...1/2-14NPT  Typical panel cutout 22.5 mm	RKF 190-*M/14.5/NPT	RSF 190-*M/14.5/NPT	3x18, 16x22 AWG, 105 °C, 1/2-14 NPT threads	1. VT 2. RD 3. GY 4. RD/BU 5. BU 6. GN 7. BN 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. GY/PK	Female 
RSF ..3/4-14NPT  Typical panel cutout 22.5 mm RKF ..3/4-14NPT  Typical panel cutout 22.5 mm	RKF 190-*M/14.75/NPT	RSF 190-*M/14.75/NPT	3x18, 16x22 AWG 105 °C, 3/4-14 NPT threads		Male 

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

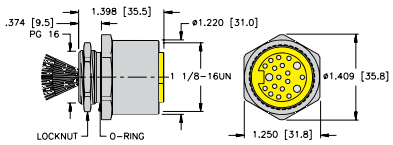
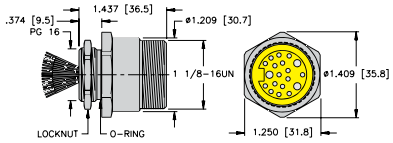
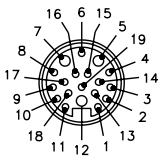
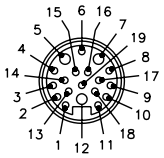
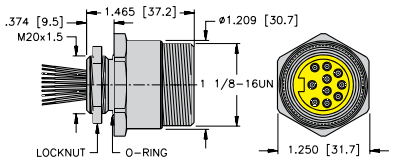
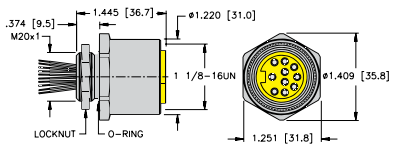
We reserve the right to make technical alterations without prior notice.

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

TURCK

19-Wire Receptacles, Front Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 300 V, 4 A (pins 5, 7, 12), 2 A (all others)

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF ..PG16  Typical panel cutout 22.5 mm RSF ..PG16  Typical panel cutout 22.5 mm	RKF 190-*M/PG 16	RSF 190-*M/PG 16	3x18, 16x22 AWG, 105 °C, PG 16 threads	1. VT 2. RD 3. GY 4. RD/BU 5. BU 6. GN 7. BN 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. GY/PK	Female  Male 
RKF ...M20  Typical panel cutout 22.5 mm RSF ..M20  Typical panel cutout 22.5 mm	RKF 190-*M/M20	RSF 190-*M/M20	3x18, 16x22 AWG, 105 °C, M20 threads		

Standard lead length is 0.3 meters. Consult factory for other lengths.

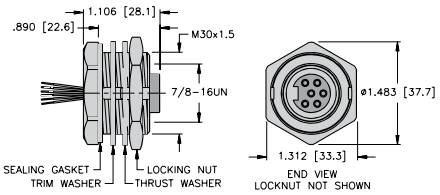
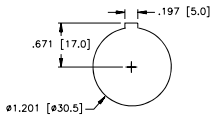
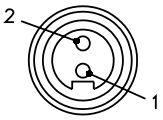
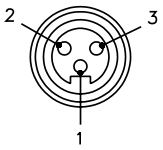
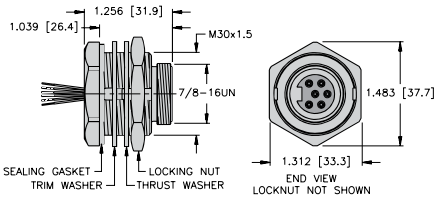
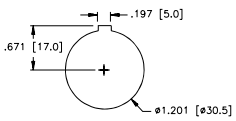
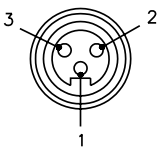
** Standard housing material is nickel plated brass.. "RSF ..."; "RSFV .." indicates stainless steel housing, and "RSFK .." indicates nylon housing. For locknuts to be included, add "W/LN" to the end of the part number. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Back Panel Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKFP ..   **RKFP Cutout** **Recommended maximum panel thickness is 6.4 mm**	**RKFP 20-*M**	**RSFP 20-*M**	2x18 AWG, 105 °C, 9 A, M30x1.5 threads, standard duty	1. BN 2. BU	**Female/Male** 
	RKFP 26-*M	**RSFP 26-*M**	2x16 AWG, 105 °C, 10 A, M30x1.5 threads, heavy duty	1. WH 2. BK	
	RKFP 30-*M	**RSFP 30-*M**	3x18 AWG, 105 °C, 9 A, M30x1.5 threads, standard duty	1. GN/YE 2. BN 3. BU	**Female** 
	RKFP 31-*M	**RSFP 31-*M**	3x18 AWG, 105 °C, 9 A, M30x1.5 threads, standard duty	1. BK 2. BN 3. BU	
RSFP ..   **RSFP Cutout** **Recommended maximum panel thickness is 6.4 mm**	**RKFP 311-*M**	**RSFP 311-*M**	3x18 AWG, 105 °C, 9 A, M30x1.5 threads, automotive color code	1. GN 2. RD/BK 3. RD/WH	
	RKFP 35-*M	**RSFP 35-*M**	3x16 AWG, 105 °C, 10 A, automotive color code, M30x1.5 Threads		**Male** 
	RKFP 36-*M	**RSFP 36-*M**	3x16 AWG, 105 °C, 10 A, M30x1.5 threads, heavy duty	1. GN 2. BK 3. WH	

Standard lead length is 0.3 meters. Consult factory for other lengths.

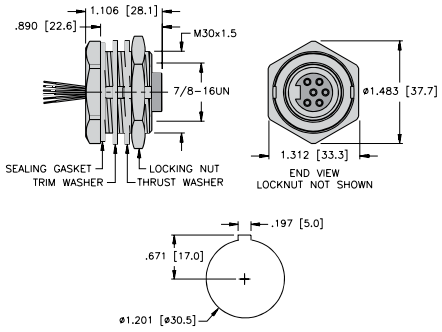
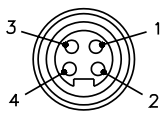
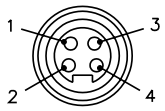
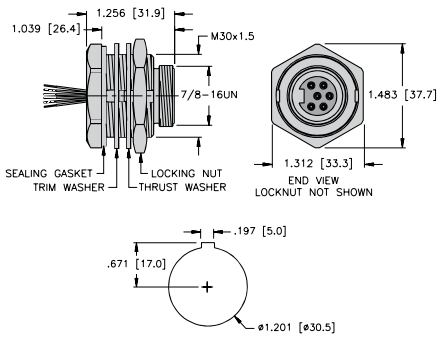
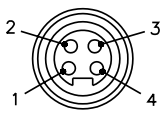
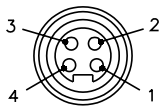
** Standard housing material is nickel plated brass.. "RSFP ..."; "RSFPV .." indicates stainless steel housing. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

4-Wire Receptacles, Back Panel Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKFP ..  **RKFP Cutout** **Recommended maximum panel thickness is 6.4 mm**	**RKFP 40-*M**	**RSFP 40-*M**	4x18 AWG, 105 °C, 9 A, M30x1.5 Threads, Standard Duty	1. BN 2. WH 3. BU 4. BK	**Female**  **Male** 
RSFP ..  **RSFP Cutout** **Recommended maximum panel thickness is 6.4 mm**	**RKFP 46-*M**	**RSFP 46-*M**	4x16 AWG, 105 °C, 10 A, M30x1.5 Threads, Heavy Duty	1. BK 2. WH 3. RD 4. GN	**Female**  **Male** 

Standard lead length is 0.3 meters. Consult factory for other lengths.

** Standard housing material is nickel plated brass.. "RSFP .."; "RSFPV .." indicates stainless steel housing.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

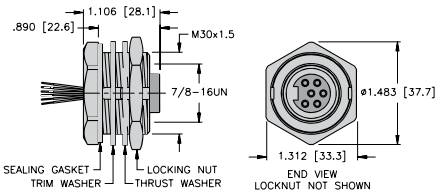
We reserve the right to make technical alterations without prior notice.

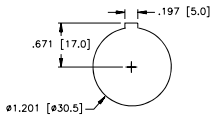
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

5 and 6-Wire Receptacles, Back Panel Mount

- NEMA 1, 3, 4, 6P
- IEC IP68 Protection
- 600 V

RKFP ..

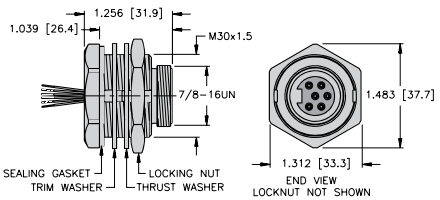


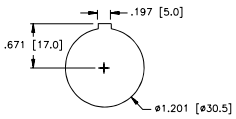


RKFP Cutout

Recommended maximum panel thickness is 6.4 mm

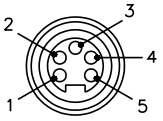
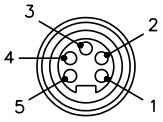
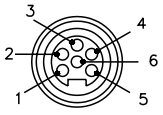
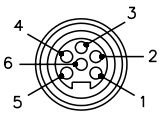
RSFP ..





RSFP Cutout

Recommended maximum panel thickness is 6.4 mm

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
	RKFP 50-*M	**RSFP 50-*M**	5x18 AWG, 105 °C, 9 A, M30x1.5 Threads, Standard Duty	1. BK 2. BU 3. GN/YE 4. BN 5. WH	**Female** 
	RKFP 511-*M	**RSFP 511-*M**	5x18 AWG, 105 °C, 9 A, Automotive Color Code, M30x1.5 Threads	1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK	
	RKFP 55-*M	**RSFP 55-*M**	5x16 AWG, 105 °C, 10 A, Automotive Color Code, M30x1.5 Threads		**Male** 
	RKFP 56-*M	**RSFP 56-*M**	5x16 AWG, 105 °C, 10 A, M30x1.5 Threads, Heavy Duty	1. WH 2. RD 3. GN 4. OG 5. BK	
	RKFP 61-*M	**RSFP 61-*M**	6x18 AWG, 105 °C, 8 A, M30x1.5 Threads, Standard Duty	1. GN 2. WH 3. BU 4. GY 5. YE 6. BN	**Female** 
	RKFP 66-*M	**RSFP 66-*M**	6x16 AWG 105 °C, 8 A, M30x1.5 Threads, Heavy Duty	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	RKFP 68-*M	**RSFP 68-*M**	6x18 AWG 105 °C, 8 A, M30x1.5 Threads, Heavy Duty		**Male** 

Standard lead length is 0.3 meters. Consult factory for other lengths.

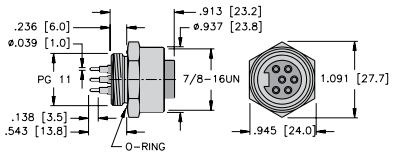
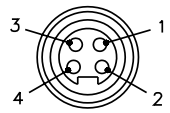
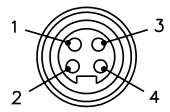
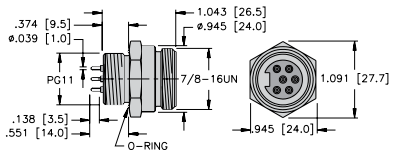
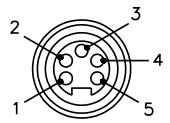
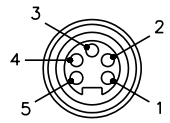
** Standard housing material is nickel plated brass.. "RSFP ..."; "RSFPV .." indicates stainless steel housing. To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

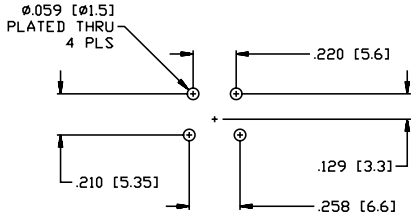
PCB Pins Receptacles

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 9 A

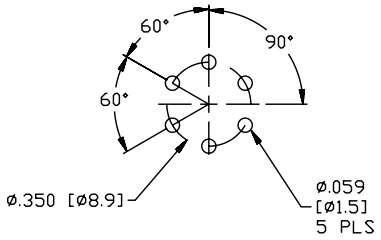
Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKF ..PCB 	**RKF 40-PCB**	**RSF 40-PCB**	4-pin PCB Pins, 105 °C, PG 11 Threads	Female  Male 
RSF ..PCB 	**RKF 50-PCB**	**RSF 50-PCB**	5-pin PCB Pins, 105 °C, PG 11 Threads	Female  Male 

** Standard housing material is nickel plated brass.. "RSFL .."; "RSFVL .." indicates stainless steel housing. No stainless option for "PCB". For locknuts to be included, add "W/LN" to the end of the part number.

4-pin PCB Board Layout



5-pin PCB Board Layout

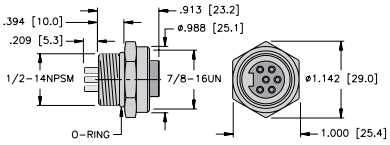
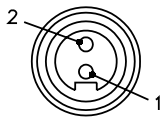
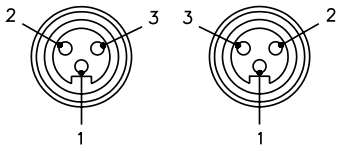
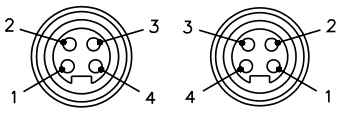
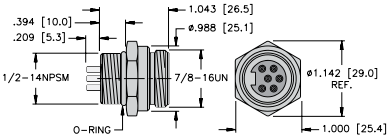
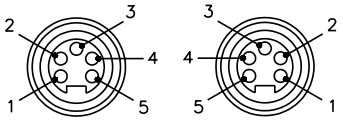
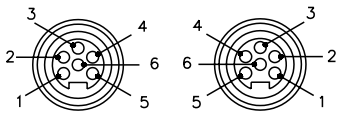


We reserve the right to make technical alterations without prior notice.

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

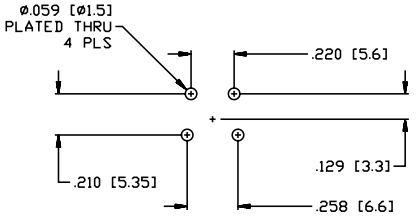
Solder Cup Receptacles

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 9 A

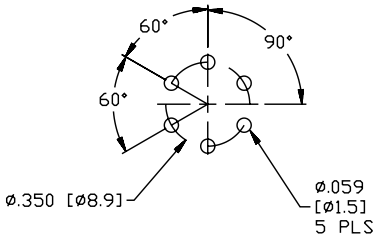
Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKFL .. 	**RKFL 26**	**RSFL 26**	2-pin solder cups, 105 °C,1/2-14 NPSM Threads	Female/Male 
	RKFL 36	**RSFL 36**	3-pin solder cups, 105 °C,1/2-14 NPSM Threads	Female / Male 
	RKFL 46	**RSFL 46**	4-pin solder cups 105 °C, 1/2-14 NPSM Threads	Female / Male 
RSFL .. 	**RKFL 56**	**RSFL 56**	5-pin solder cups 105 °C, 1/2-14 NPSM Threads	Female / Male 
	RKFL 66	**RSFL 66**	6-pin solder cups 105 °C, 1/2-14 NPSM Threads	Female / Male 

** Standard housing material is nickel plated brass.. "RSFL .."; "RSFVL .." indicates stainless steel housing. No stainless option for "PCB".
For locknuts to be included, add "W/LN" to the end of the part number.

4-pin PCB Board Layout



5-pin PCB Board Layout



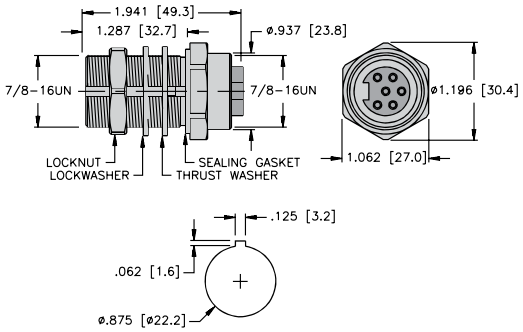
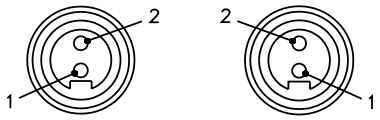
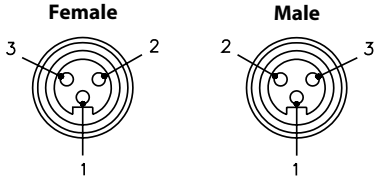
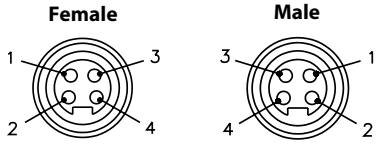
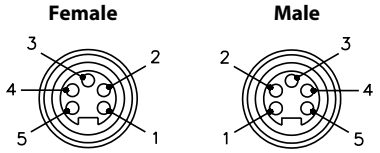
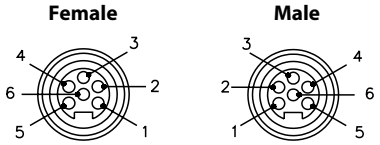
We reserve the right to make technical alterations without prior notice.

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

Bulkhead Feed-Thru Receptacles

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection
- 600 V, 9 A

We reserve the right to make technical alterations without prior notice.

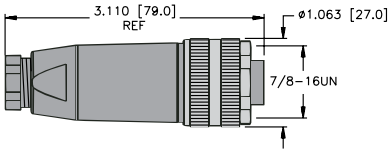
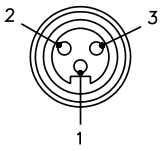
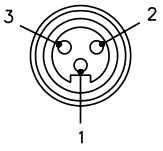
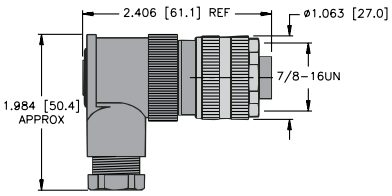
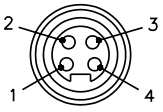
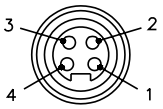
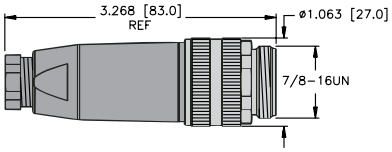
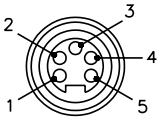
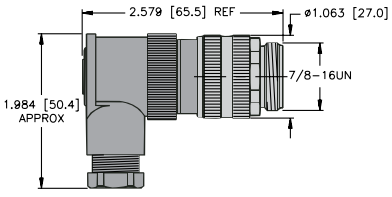
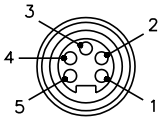
Housing Style	Part Number	Features	Pinout
RSF RKF ..**  Note: Recommended maximum panel thickness is 22.2 mm	**RSF RKF 20/22**	Nickel plated brass 2-pin, 105 °C, thrust washer and panel keyway prevent rotation	Female / Male 
	RSF RKF 30/22	Nickel plated brass 3-pin, 105 °C, thrust washer and panel keyway prevent rotation	Female / Male 
	RSF RKF 40/22	Nickel plated brass 4-pin, 105 °C, thrust washer and panel keyway prevent rotation	Female / Male 
	RSF RKF 50/22	Nickel plated brass 5-pin, 105 °C, thrust washer and panel keyway prevent rotation	Female / Male 
	RSF RKF 60/22	Nickel plated brass 6-pin, 105 °C, thrust washer and panel keyway prevent rotation	Female / Male 

** Standard housing material is nickel plated brass .. "RSF RKF.."; "RSFV RKFV.." indicates stainless steel housing.

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

3, 4 and 5-Pin Field Wireable Connectors

- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

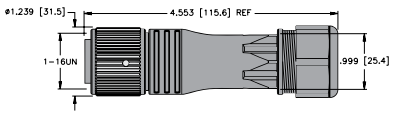
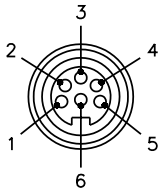
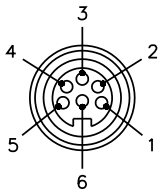
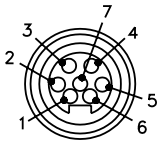
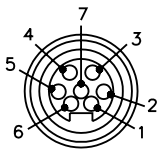
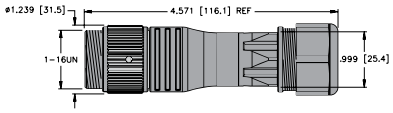
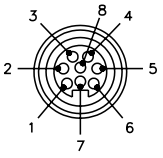
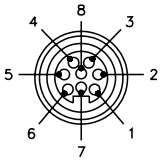
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 41 .. 	**B 4131-0/9** **B 4231-0/9**	**BS 4131-0/9** **BS 4231-0/9**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 12 A, Mates with all 3-pin cordsets and receptacles	Female 
	B 4131-0/13.5	**BS 4131-0/13.5**	Glass filled nylon, PG 13.5 cable gland, accepts 10-12 mm cable diameter screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 12 A, Mates with all 3-pin cordsets and receptacles	Male 
B 42 .. 	**B 4141-0/9** **B 4241-0/9**	**BS 4141-0/9** **BS 4241-0/9**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter screw terminals, accepts up to 16 AWG conductors 85 °C, 250 V, 9 A, Mates with all 4-pin cordsets and receptacles	Female 
	B 4141-0/13.5	**BS 4141-0/13.5**	Glass filled nylon, PG 13.5 cable gland, accepts 10-12 mm cable diameter screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 9 A, Mates with all 4-pin cordsets and receptacles	Male 
BS 41 .. 	**B 4151-0/9** **B 4251-0/9**	**BS 4151-0/9** **BS 4251-0/9**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 9 A, Mates with all 5-pin cordsets and receptacles	Female 
BS 42 .. 	**B 4151-0/13.5**	**BS 4151-0/13.5**	Glass filled nylon, PG 13.5 cable gland, accepts 10-12 mm cable diameter screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 9 A	
	B 4151-0/16	**BS 4151-0/16**	Glass filled nylon, PG 16 cable gland, accepts 12-14 mm cable diameter screw terminals, accepts up to 16 AWG conductors, 85 °C, 250 V, 9 A	Male 

We reserve the right to make technical alterations without prior notice.

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

6, 7 and 8-Pin Field Wireable Connectors

- **IEC IP67 Protection**

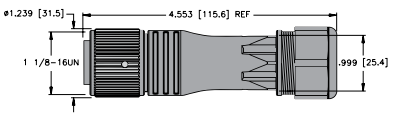
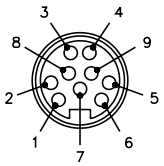
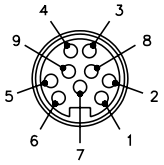
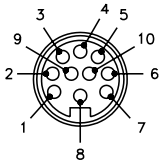
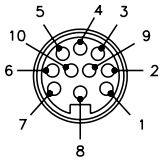
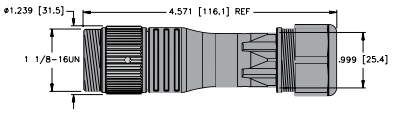
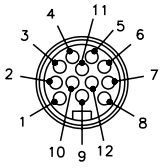
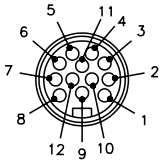
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 71.. 	**B 716B61-0/21**	**BS 716B61-0/21**	Glass filled nylon, PG 21 cable gland, accepts 9-16 mm cable diameter, Screw terminal, accepts 14-18 AWG conductors, 105 °C, 600 VAC/VDC, 8 A, Mates with all B-size 6-pin cordsets and receptacles	**Female**  **Male** 
	B 7171-0/21	**BS 7171-0/21**	Glass filled nylon, PG 21 cable gland, accepts 9-16 mm cable diameter, Screw terminal, accepts 14-18 AWG conductors, 105 °C, 600 VAC/VDC, 8 A, Mates with all 7-pin cordsets and receptacles	**Female**  **Male** 
BS 71.. 	**B 7181-0/21**	**BS 7181-0/21**	Glass filled nylon, PG 21 cable gland, accepts 9-16 mm cable diameter, Screw terminal, accepts 14-18 AWG conductors, 105 °C, 600 VAC/VDC, 8 A, Mates with all 8-pin cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

9, 10 and 12-Pin Field Wireable Connectors

- **IEC IP67 Protection**

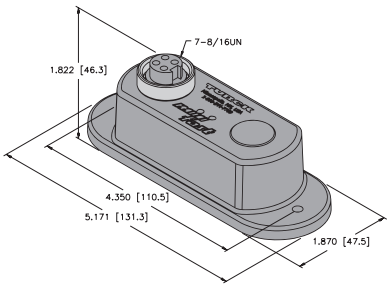
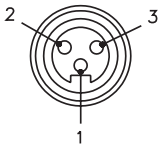
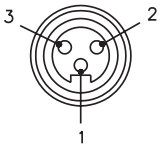
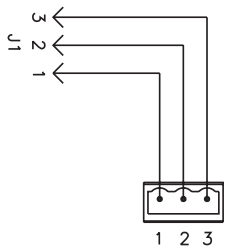
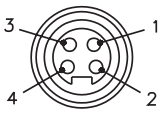
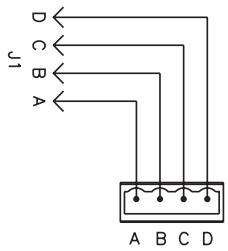
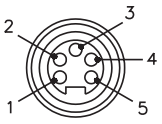
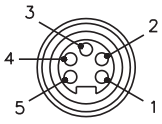
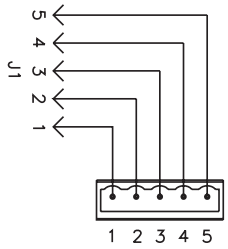
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 71.. 	**B 7191-0/21**	**BS 7191-0/21**	Glass filled nylon, PG 21 cable gland, accepts 13 to 18 mm cable diameter, Screw terminal, accepts 14 to 18 AWG conductors, 105 °C, 600 VAC/VDC, 7 Amps, Mates with all 9-pin cordsets and receptacles	**Female**  **Male** 
	B 71101-0/21	**BS 71101-0/21**	Glass filled nylon, PG 21 cable gland, accepts 13 to 18 mm cable diameter, Screw terminal, accepts 14 to 18 AWG conductors, 105 °C, 600 VAC/VDC, 7 Amps, Mates with all 10-pin cordsets and receptacles	**Female**  **Male** 
BS 71.. 	**B 71121-0/21**	**BS 71121-0/21**	Glass filled nylon, PG 21 cable gland, accepts 13 to 18 mm cable diameter, Screw terminal, accepts 14 to 18 AWG conductors, 105 °C, 600 VAC/VDC, 7 Amps, Mates with all 12-pin cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

Conduit Adapters, 1 Port

- **Attaches to standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for transition to 3-5 Wire Minifast Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws**
- **IP67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips accept up to 12 AWG Wires**

Housing Style	Part Number	Features	Pinout	Wiring Diagram
	**CA-1/RKF 30**	Nylon housing 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 3-wire Minifast connector	**Female**  **Male** 	
	CA-1/RKF 40	Nylon housing 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 4-wire Minifast connector	**Female**  **Male** 	
	CA-1/RKF 50	Nylon housing 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 5-wire Minifast connector	**Female**  **Male** 	

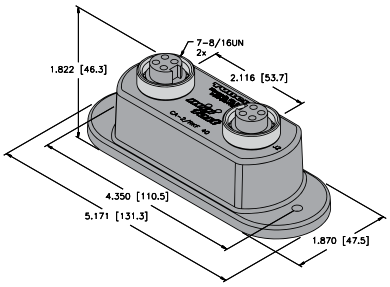
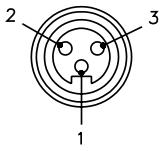
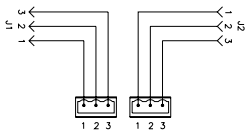
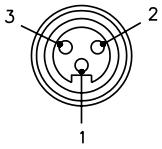
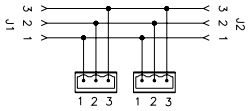
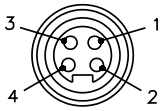
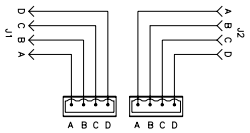
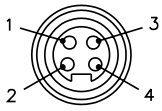
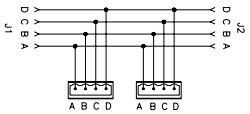
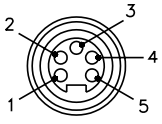
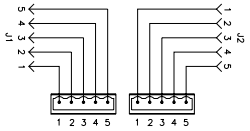
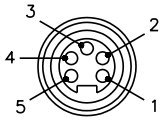
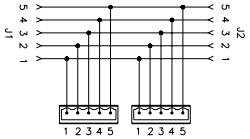
** Standard receptacle housing material is nickel plated brass.."RKF"; "RKFV" indicates stainless steel. Example: CA-2/RKFV 50.

We reserve the right to make technical alterations without prior notice.

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

Conduit Adapters, 2 Port

- **Attaches to standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for transition to 3-5 Wire Minifast Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws**
- **IP67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips accept up to 12 AWG Wires**

Housing Style	Part Number	Features	Pinout	Wiring Diagram
	**CA-2/RKF 30**	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 3-wire Minifast connector	**Female** 	
	CA-2/RKF 30/S651	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 3-wire Minifast connector, parallel wired	**Male** 	
	CA-2/RKF 40	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 4-wire Minifast connector	**Female** 	
	CA-2/RKF 40/S651	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 4-wire Minifast connector, parallel wired	**Male** 	
	CA-2/RKF 50	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 5-wire Minifast connector	**Female** 	
	CA-2/RKF 50/S651	Nylon housing, 80 °C, 250 V, 9 A, attaches to standard conduit body for transition to 5-wire Minifast connector, parallel wired	**Male** 	

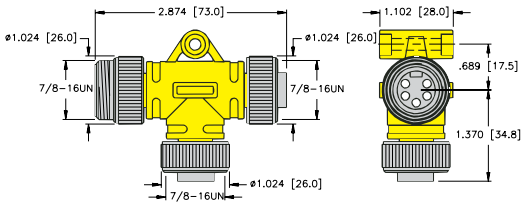
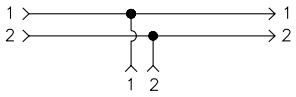
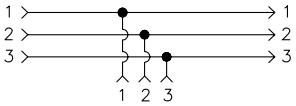
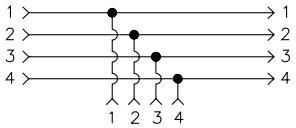
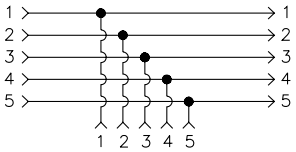
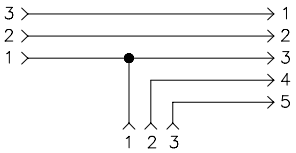
** Standard receptacle housing material is nickel plated brass.."RKF"; "RKFV" indicates stainless steel. Example: CA-2/RKFV 50.

We reserve the right to make technical alterations without prior notice.

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

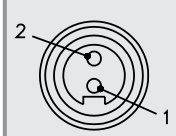
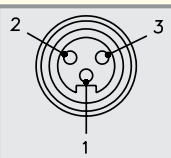
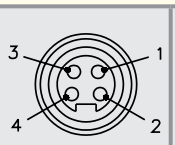
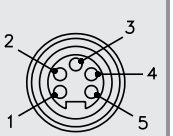
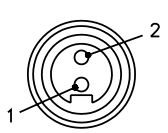
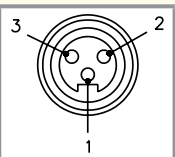
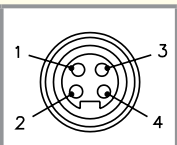
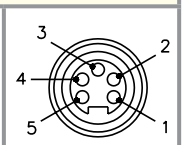
Tees

- **Available with Parallel or Junction-style wiring**
- **Simplifies Wiring Installations**
- **Tough Molded TPU Body**

Connector Style	Part Number	Features	Pinout
RSM RKM .. 	**RSM-2RKM 20**	1 male and 2 female connectors, 250 V, 9 A, 80 °C, parallel wired, 2 conductor	
	RSM-2RKM 30	1 male and 2 female connectors, 250 V, 9 A, 80 °C, parallel wired, 3 conductor	
	RSM-2RKM 40	1 male and 2 female connectors, 250 V, 9 A, 80 °C, parallel wired, 4 conductor	
	RSM-2RKM 50	1 male and 2 female connectors, 250 V, 9 A, 80 °C, parallel wired, 5 conductor	
	RSM 50-2RKM 30	1 male 5-pin connector, 2 female 3-pin connectors, 250 V, 9.0 A, 80 °C, combine two cables into one	

We reserve the right to make technical alterations without prior notice.

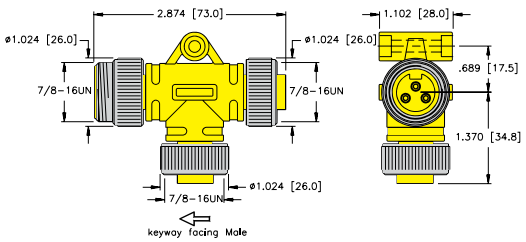
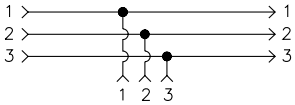
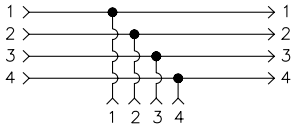
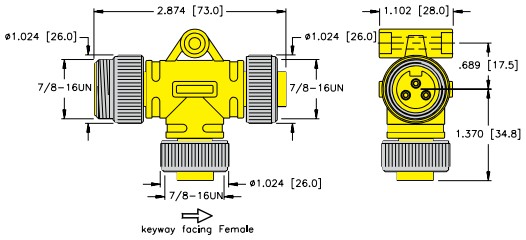
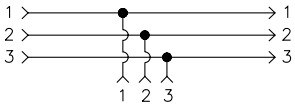
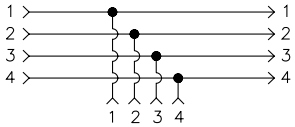
Pinouts

Female				Male			
							
2-Pin	**3-Pin**	**4-Pin**	**5-Pin**	**2-Pin**	**3-Pin**	**4-Pin**	**5-Pin**

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

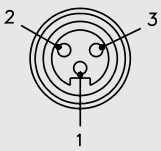
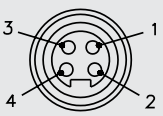
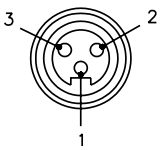
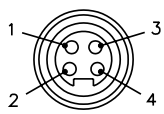
Tees

- Drop Keyway Facing Male or Female Connector
- Available with Parallel Wiring
- Simplifies Wiring Installations
- Tough Molded TPU Body

Connector Style	Part Number	Features	Pinout
RSM-2RKM ..-KM 	RSM-2RKM 30-KM	1 male and 2 female connectors, 250 V, 9 A, 80 °C Parallel wired, 3 conductor, keyway facing male connector	
	RSM-2RKM 40 KM	1 male and 2 female connectors, 250 V, 9 A, 80 °C Parallel wired, 4 conductor, keyway facing male connector	
RSM-2RKM ..-KF 	RSM-2RKM 30-KF	1 male and 2 female connectors, 250 V, 9 A, 80 °C Parallel wired, 3 conductor, keyway facing female connector	
	RSM-2RKM 40-KF	1 male and 2 female connectors, 250 V, 9 A, 80 °C Parallel wired, 4 conductor, keyway facing female connector	

We reserve the right to make technical alterations without prior notice.

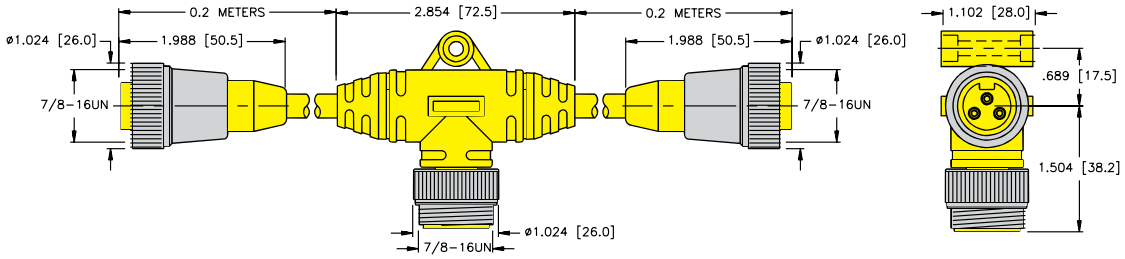
Pinouts

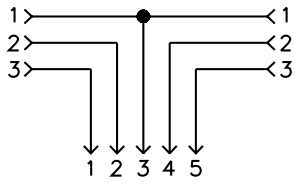
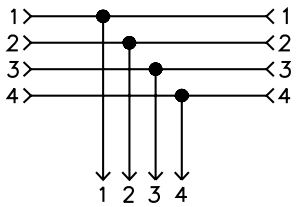
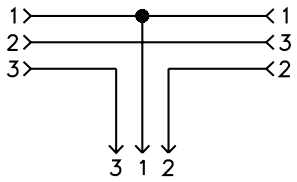
Female		Male	
			
3-Pin	4-Pin	3-Pin	4-Pin

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

Junction Tees, Cable on Female Branches

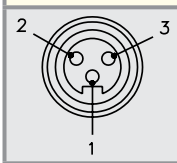
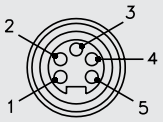
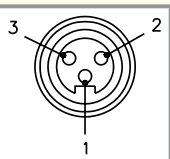
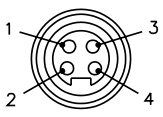
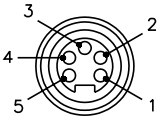
- **Junction-style Wiring**
- **Simplifies Wiring Installations**
- **Tough Molded TPU Body**



Connector Style	Part Number	Features	Pinout
See above	**RKM 30-*-RSM 50-RKM 30-***	Two 3-pin female cordsets, PVC Yellow, 3x18 AWG, 7.3 mm OD, one 5-pin male connector, 250 V, 9 A, 80 °C, combine two cables into one	
	RKM 40-*-RSM 40-RKM 40-*	Two 4-pin female cordsets, PVC Yellow, 4x18 AWG, 7.3 mm OD, one 4-pin male connector, 250 V, 9 A, 80 °C, parallel wired	
	RKM 301-*-RSM 301-RKM 301-*	Two 3-pin female cordsets, PVC Yellow, 3x18 AWG, 7.3 mm OD, one 3-pin male connector, 250 V, 9 A, 80 °C, combine two cables into one, series wired	

* Length in meters.
Standard coupling nut material is nickel plated brass .. "RSM or RKM"; "RS or RK" indicates nylon and "RSV or RKV" indicates stainless steel.

Pinouts

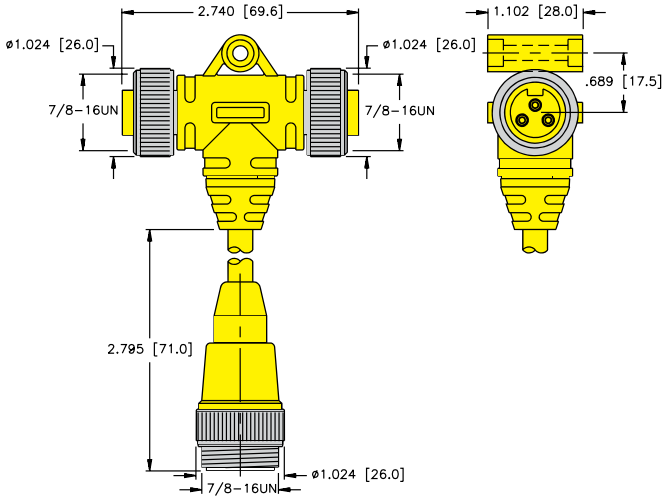
Female			Male		
					
3-Pin	**4-Pin**	**5-Pin**	**3-Pin**	**4-Pin**	**5-Pin**

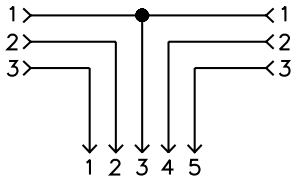
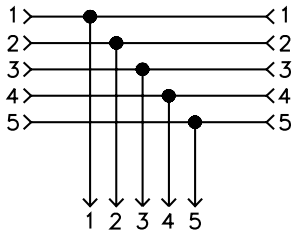
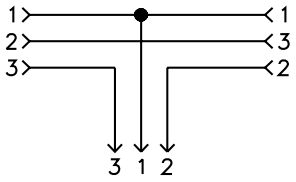
We reserve the right to make technical alterations without prior notice.

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

Junction Tees, Cable on Male Trunk

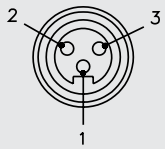
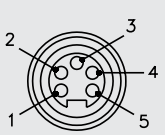
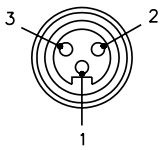
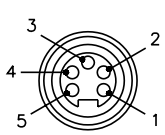
- Junction-style Wiring
- Simplifies Wiring Installations
- Tough Molded TPU Body



Connector Style	Part Number	Features	Pinout
See above	RKM 30-*-RSM 50-RKM 30-*	Two 3-pin female cordsets, PVC Yellow, 3x18 AWG, 7.3 mm O.D., one 5-pin male connector, 250 V, 9 A, 80 °C, combine two cables into one	
	RKM 40-*-RSM 40-RKM 40-*	Two 4-pin female cordsets, PVC Yellow, 4x18 AWG, 7.3 mm OD, one 4-pin male connector, 250 V, 9 A, 80 °C, parallel wired	
	RKM 301-*-RSM 301-RKM 301-*	Two 3-pin female cordsets, PVC Yellow, 3x18 AWG, 7.3 mm OD, one 3-pin male connector, 250 V, 9 A, 80 °C, combine two cables into one, series wired	

* Length in meters.
Standard coupling nut material is nickel plated brass .. "RSM or RKM"; "RS or RK" indicates nylon and "RSV or RKV" indicates stainless steel.

Pinouts

Female		Male	
			
3-Pin	4-Pin	3-Pin	4-Pin

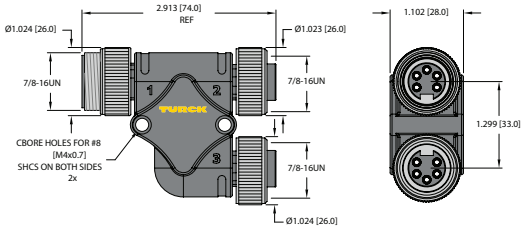
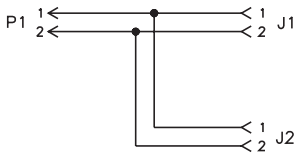
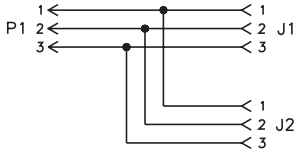
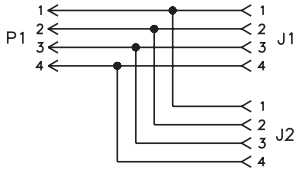
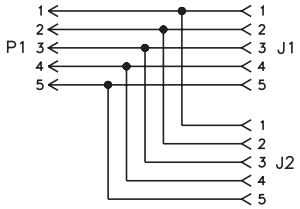
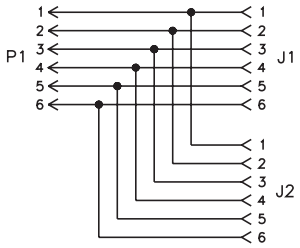
We reserve the right to make technical alterations without prior notice.

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

h-Style Tees

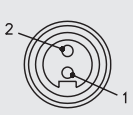
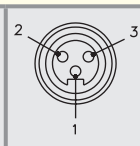
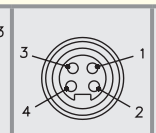
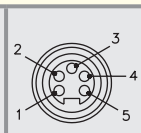
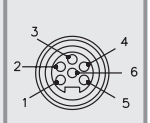
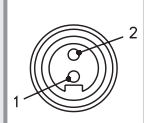
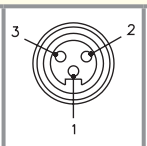
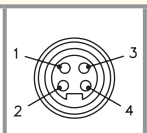
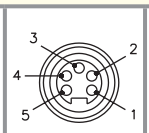
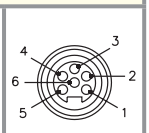
- Parallel Wiring
- Simplifies Wiring Installations
- Tough Molded TPU Black Body
- NEMA 1, 3, 4, 6P
- IEC IP67 Protection

RoHS compliant

Connector Style	Part Number	Features	Wiring Diagram
	**XSH-RSM-2RKM 20**	1 male and 2 female connectors, 600 V, 9 A, 105 °C, parallel wired, 2 conductor	
	XSH-RSM-2RKM 30	1 male and 2 female connectors, 600 V, 9 A, 105 °C, parallel wired, 3 conductor	
	XSH-RSM-2RKM 40	1 male and 2 female connectors, 600 V, 9 A, 105 °C, parallel wired, 4 conductor	
	XSH-RSM-2RKM 50	1 male and 2 female connectors, 600 V, 9 A, 105 °C, parallel wired, 5 conductor	
	XSH-RSM-2RKM 60	1 male and 2 female connectors, 600 V, 9 A, 105 °C, parallel wired, 6 conductor	

We reserve the right to make technical alterations without prior notice.

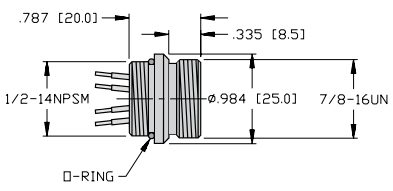
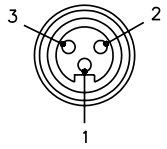
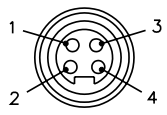
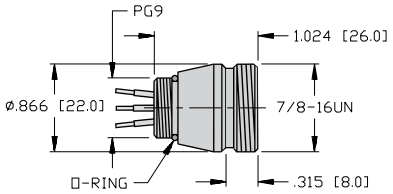
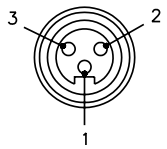
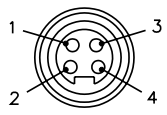
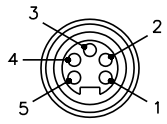
Pinouts

Female					Male				
									
2-Pin	3-Pin	4-Pin	5-Pin	6-Pin	2-Pin	3-Pin	4-Pin	5-Pin	6-Pin

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

Quick Disconnect Adapters

- Adapt to Standard Minifast
- Cordsets
- Available w/NPSM or PG 9 Threads

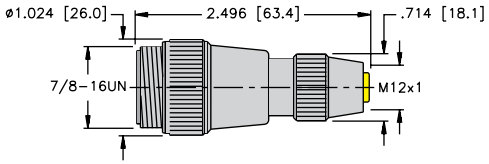
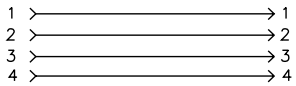
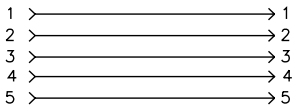
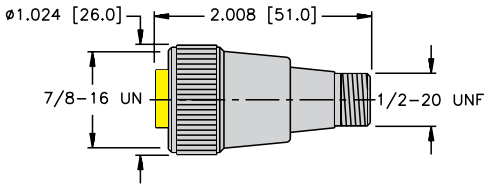
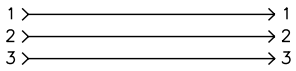
Housing Style	Part Number	Features	Pinout	
B11... or B21.. 	**B2131-*M**	Nylon, 300 V, 4 A, 3x22 AWG, 70 °C, mates with 3-pin cordsets,1/2-14 NPSM Threads	1. Gn 2. Bn 3. Bu	
	B1131-*M	Nickel plated brass, 300 V, 4 A, 3x22 AWG, 70 °C, mates with 3-pin cordsets, 1/2-14 NPSM Threads		
	B2131-*M/S523	Nylon, 300 V, 4 A, 3x22 AWG, 70 °C, mates with 3-pin cordsets, 1/2-14 NPSM Threads	1. Bk 2. Bn 3. Bu	
	B2141-*M	Nylon, 300 V, 4 A, 4x22 AWG, 70 °C, mates with 4-pin cordsets, 1/2-14 NPSM Threads	1. Bn 2. Wh 3. Bu 4. Bk	
	B1141-*M	Nickel plated brass, 300 V, 4 A, 4x22 AWG, 70 °C, mates with 4-pin cordsets, 1/2-14 NPSM Threads		
B11..PG9-*M 	**B1131-PG9-*M**	Nickel plated brass, 300 V, 4 A, 3x22 AWG, 70 °C, mates with 3-pin cordsets, PG 9 Threads	1. Gn 2. Bn 3. Bu	
	B1141-PG9-*M	Nickel plated brass, 300 V, 4 A, 4x22 AWG, 70 °C, mates with 4-pin cordsets, PG 9 Threads	1. Bn 2. Wh 3. Bu 4. Bk	
	B1151-PG9-*M	Nickel plated brass, 300 V, 4 A, 5x22 AWG, 70 °C, mates with 5-pin cordsets, PG 9 Threads	1. Bn 2. Wh 3. Bu 4. Bk 5. Gn	

We reserve the right to make technical alterations without prior notice.

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

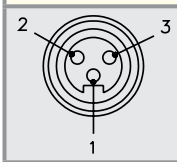
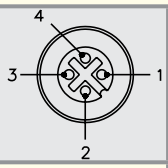
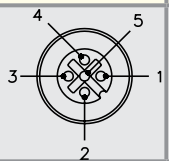
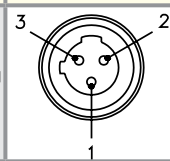
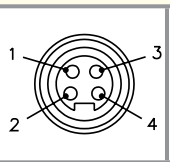
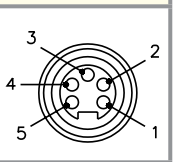
Quick Disconnect Adapters

- **Convert Minifast to Eurofast® or Microfast®**
- **Rugged Metal Connector**

Housing Style	Part Number	Features	Wiring Diagram
	**RSM 40-FK 4.4**	Nickel plated brass, 250 V, 4 A, 80 °C, female Eurofast, male Minifast, 4-pin	
	RSM 50-FK 4.5	Nickel plated brass, 250 V, 4 A, 80 °C, female Eurofast, male Minifast, 5-pin	
	**RKM 30/SB3**	Nickel plated brass, 250 V, 4 A, 80 °C, female Minifast, male Microfast, 3-pin	

We reserve the right to make technical alterations without prior notice.

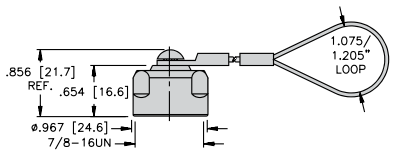
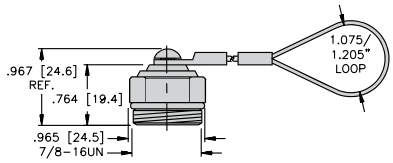
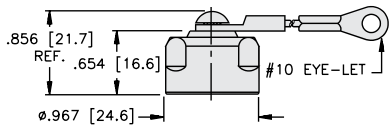
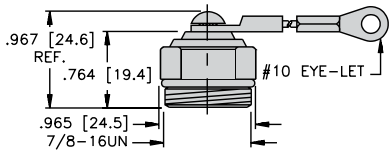
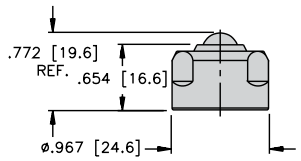
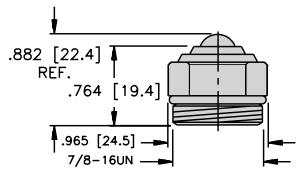
Pinouts

Female			Male		
					
3-Pin	**4-Pin**	**5-Pin**	**3-Pin**	**4-Pin**	**5-Pin**

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

Closure Caps, A-Size

- 7/8-16 UN Threads
- Nickel Plated Brass and Stainless Steel
- Male and Female Caps

Closure Cap Style	Part Number	Features
	**RKM-CC**	Nickel plated brass, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets, receptacles
	RKMV-CC	Stainless steel, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets, receptacles
	**RSM-CC**	Nickel plated brass, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets, receptacles
	RSMV-CC	Stainless steel, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets, receptacles
	**RKF-CC**	Nickel plated brass, 7/8-16 UN threads, 6" stainless steel lanyard, Closure cap, mates to male cordsets, receptacles
	RKFV-CC	Stainless steel, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets, receptacles
	**RSF-CC**	Nickel plated brass, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets, receptacles
	RSFV-CC	Stainless steel, 7/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets, receptacles
	**RKF-MC**	Nickel plated brass, 7/8-16 UN threads, BUNA-N gasket, closure cap, mates to male cordsets, receptacles
	RKFV-MC	Stainless steel, 7/8-16 UN threads, BUNA-N gasket, closure cap, mates to male cordsets, receptacles
	**RSF-MC**	Nickel plated brass, 7/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female cordsets, receptacles
	RSFV-MC	Stainless steel, 7/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female cordsets, receptacles

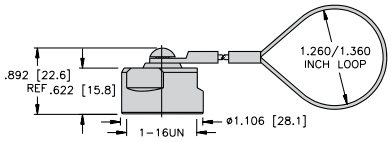
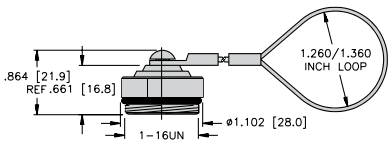
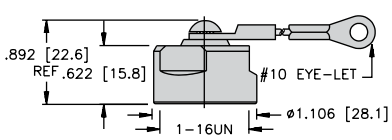
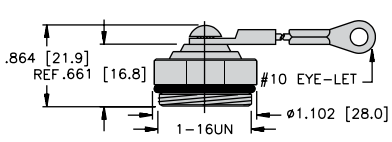
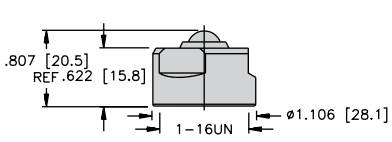
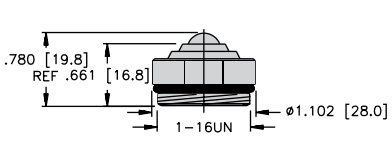
Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

We reserve the right to make technical alterations without prior notice.

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

Closure Caps, B-Size

- 1-16 UN Threads
- Nickel Plated Brass and Stainless Steel
- Male and Female Caps

Closure Cap Style	Part Number	Features
	**RKMB-CC**	Nickel plated brass, 1-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets
	RKMBV-CC	Stainless steel, 1-16 UN threads 6" stainless steel lanyard, closure cap, mates to male cordsets
	**RSMB-CC**	Nickel plated brass, 1-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets
	RSMBV-CC	Stainless steel, 1-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets
	**RKFB-CC**	Nickel plated brass, 1-16 UN threads, 6" stainless steel lanyard, Closure cap, mates to male receptacles
	RKFBV-CC	Stainless steel, 1-16 UN threads, 6" stainless steel lanyard, Closure cap, mates to male receptacles
	**RSFB-CC**	Nickel plated brass, 1-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female receptacles
	RSFBV-CC	Stainless steel, 1-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female receptacles
	**RKFB-MC**	Nickel plated brass, 1-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to male receptacles
	RKFBV-MC	Stainless steel, 1-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to male receptacles
	**RSFB-MC**	Nickel plated brass, 1-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female receptacles
	RSFBV-MC	Stainless steel, 1-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female receptacles

Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

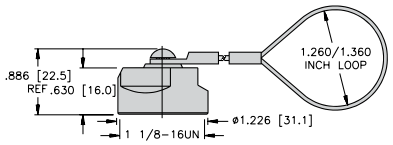
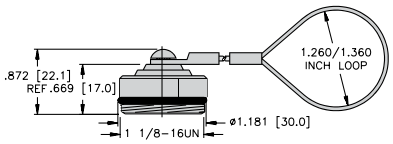
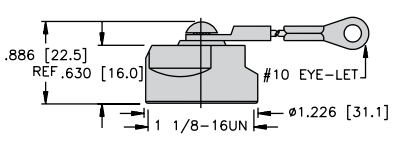
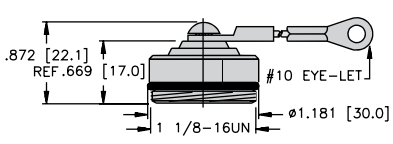
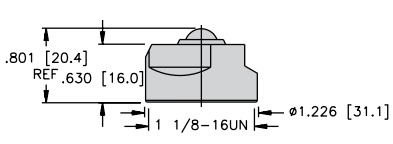
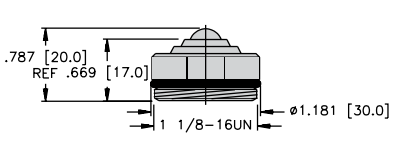
We reserve the right to make technical alterations without prior notice.

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

1 1/8" *minifast*® Connectivity Products

Closure Caps, C-Size

- **1 1/8-16 UN Threads**
- **Nickel Plated Brass and Stainless Steel**
- **Male and Female Caps**

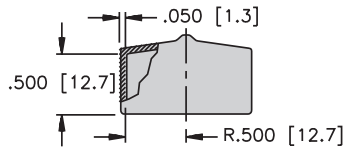
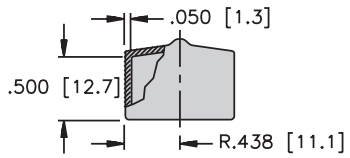
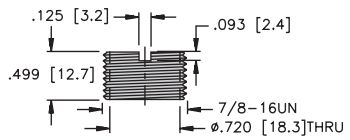
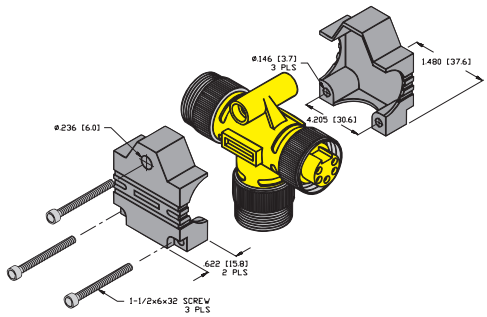
Closure Cap Style	Part Number	Features
	**RKMC-CC**	Nickel plated brass, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets
	RKMCV-CC	Stainless steel, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male cordsets
	**RSMC-CC**	Nickel plated brass, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets
	RSMCV-CC	Stainless steel, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female cordsets
	**RKFC-CC**	Nickel plated brass, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male receptacles
	RKFCV-CC	Stainless steel, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to male receptacles
	**RSFC-CC**	Nickel plated brass, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female receptacles
	RSFCV-CC	Stainless steel, 11/8-16 UN threads, 6" stainless steel lanyard, closure cap, mates to female receptacles
	**RKFC-MC**	Nickel plated brass, 11/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to male receptacles
	RKFCV-MC	Stainless steel, 11/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to male receptacles
	**RSFC-MC**	Nickel plated brass, 11/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female receptacles
	RSFCV-MC	Stainless steel, 11/8-16 UN threads, BUNA-N gasket and O-ring, closure cap, mates to female receptacles

Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

We reserve the right to make technical alterations without prior notice.

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

Accessories

Housing Style	Part Number	Features
	**DUST CAP RKM (50/PACKAGE)**	Nylon, closure cap, mates to junction boxes and female cordsets
	**DUST CAP RSM (50/PACKAGE)**	Nylon, closure cap, mates to junction boxes and male cordsets
	**FF 78 AL**	Anodized Aluminum, female adapter to be used with 2 female coupling nuts
	**MB-MINITEE 1**	Nylon, mounting bracket for Minifast tees

We reserve the right to make technical alterations without prior notice.

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

Notes

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

Part Number Keys	G2
Cordsets	G4
Receptacles	G9
Field Wireables	G27
Closure Caps	G30

Features

- M16 threaded connectors
- 5 through 8, 12, 14 and 19-pin
- Up to 8 Amp, 300 Volt rated
- Multiple tee configurations
- IEC IP67 protection
- Signal consolidation

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

Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B	S	M		12	999	*	/S..

M16 Versafast Cordset

Gender

K = female connector
S = male connector

Configuration

(blank) = assembled connector
M = straight molded
WM = right angle molded

Housing Material

(blank) = nickel plated brass
K = nylon
V = stainless steel

Insertion Point of Extension Cable and Second Prefix*

* Male connector listed first, female connector second
Example: **BSM BKM 12-001-1**

Number of Pins

5	=	5	12	=	12
6	=	6	14	=	14
7	=	7	19	=	19
8	=	8			

Varieties

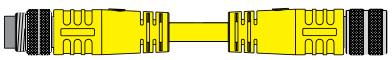
(blank) = PVC jacket
/S90 = TPU jacket
/S101 = Flexlife®-20, high flex cable

Length in Meters

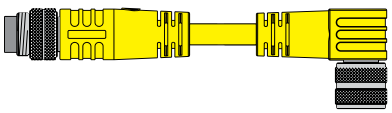
Number of Wires / AWG / Color Codes

5-Pin			
084	=	5x18 AWG	BN, BU, WH, BU, BK, GY
6-Pin			
085	=	6x18 AWG	BN, BU, WH, BU, BK, GY, PK
7-Pin			
086	=	7x18 AWG	WH, BN, GN, YE, GY, PK, BU
8-Pin			
087	=	8x18 AWG	WH, BN, GN, YE, GY, PK, BU, RD
12-Pin			
001	=	12x22 AWG	BN, BU, WH, GN, YE, GY, PK, RD, BK, OG, TN, VT / TPU jacket
967	=	12x22 AWG	(same color code as 001) / PVC jacket
999	=	12x22 AWG	(same color code as 001) / TPE jacket
14-Pin			
000	=	14x22 AWG	BN, RD/BU, BK, PK, GN, BU, OG, GY/BN, VT, WH, RD, GY, YE, TN / TPE jacket
002	=	14x22 AWG	(same color code as 000) / TPU jacket
755	=	12x24 AWG	OG, BK, GN, GY, BN, TN, VT, RD, WH, YE, PK, BU / PVC jacket
836	=	10x24 AWG	GY, GN, BK, BN, PK, YE, WH, RD, VT, BU / PVC jacket
917	=	12x24 AWG	RD/BU, GY, GN, BK, GY/PK, BN, PK, YE, WH, RD, VT, BU / PVC jacket
954	=	10x24 AWG	(same color code as 836) / TPE jacket
998	=	14x22 AWG	(same color code as 000) / PVC jacket
19-Pin			
995	=	19x22 AWG	BU, GY/PK, RD/BU, WH/GN, BK, BN/GN, PK, WH/YE, GN, YE/BN, BU, OG, GY/BN, VT, WH, RD, GY, YE, TN / PVC jacket
996	=	19x22 AWG	(same color code as 995) / TPU jacket
997	=	19x22 AWG	(same color code as 995) / TPE jacket

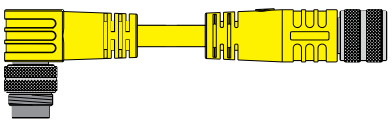
Extension Examples



B	S	M		B	K	W		12	-	999	-	*	/S..



B	S	M		B	K	W	M	12	-	999	-	*	/S..



B	S	W	M	B	K	M		12	-	999	-	*	/S..

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

Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B	K	F	D		14	-	12	-	*	/14.5/NPT

M16 Versafast Receptacle

Gender

K = female receptacle
S = male receptacle

Designator for Receptacle

Housing Style

(blank) = front mount
D = rear mount

Housing Material

(blank) = nickel plated brass
V = stainless steel

Number of Pins

5	=	5	12	=	12
6	=	6	14	=	14
7	=	7	19	=	19
8	=	8	PCB	=	PCB PINS

Thread Type

/14.5/NPT	=	1/2-14 NPT threads
/18.375/NPT	=	3/8-18 NPT threads
/M20	=	M20 threads
/M18	=	M18 thread

Length in Meters

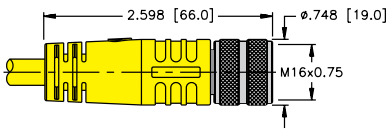
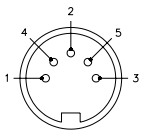
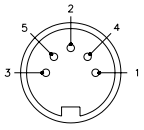
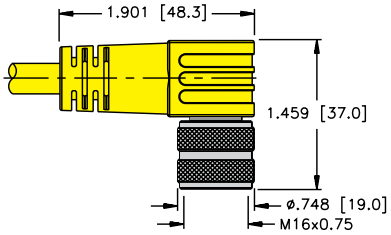
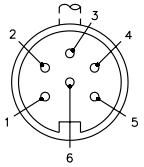
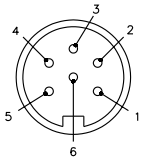
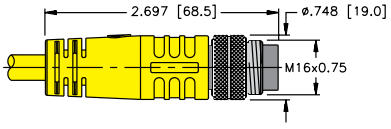
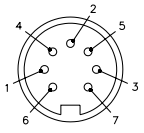
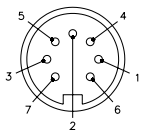
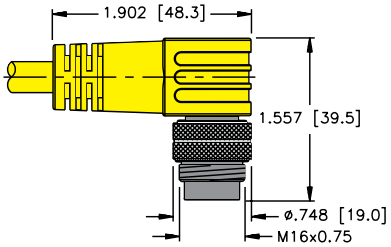
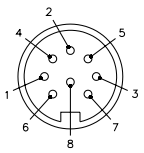
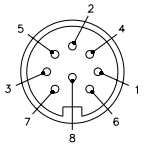
Number of Wires / AWG / Color Codes

5	=	5x18 AWG	BN, BU, WH, BU, BK, GY
6	=	6x18 AWG	BN, BU, WH, BU, BK, GY, PK
7	=	7x18 AWG	WH, BN, GN, YE, GY, PK, BU
8	=	8x18 AWG	WH, BN, GN, YE, GY, PK, BU, RD
12	=	12x22 AWG	BN, BU, WH, GN, YE, GY, PK, RD, BK, OG, TN, VT
14	=	14x22 AWG	BN, RD/BU, BK, PK, GN, BU, OG, GY/BN, VT, WH, RD, GY, YE, TN
19	=	19x22 AWG	BN, GY/PK, RD/BU, WH/GN, BK, BN/GN, PK, WH/YE, GN, YE/BN, BU, OG, GY/BN, VT, WH, RD, GY, YE, TN

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

5 - 8 Pin Cordsets

- **IEC IP67 Protection**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKM .. 	**BKM 5-084-*** **BKWM 5-084-***	**BSM 5-084-*** **BSWM 5-084-***	ITC/PLTC PVC Yellow, 5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 7.6 mm OD, Cable #RF51084-*M, 5-wire DC application, Flexlife®	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
BKWM .. 	**BKM 6-085-*** **BKWM 6-085-***	**BSM 6-085-*** **BSWM 6-085-***	ITC/PLTC PVC Yellow, 6x18 AWG, 105 °C, 300 VAC/VDC, 7 A,8.4 mm OD, Cable #RF51085-*M, 6-wire DC application, Flexlife	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
BSM .. 	**BKM 7-086-*** **BKWM 7-086-***	**BSM 7-086-*** **BSWM 7-086-***	ITC/ PLTC PVC Yellow, 7x18 AWG, 105 °C, 125 VAC/VDC, 7 A,8.1 mm OD, Cable #RF51086-*M, 7-wire DC application, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
BSWM .. 	**BKM 8-087-*** **BKWM 8-087-***	**BSM 8-087-*** **BSWM 8-087-***	ITC/PLTC PVC Yellow, 8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8.9 mm OD, Cable #RF51087-*M, 8-wire DC application, Flexlife	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard housing and coupling nut material is anodized aluminum.. "BKM.."; "BKMV.." indicates stainless steel and "BKMK.." indicates nylon.

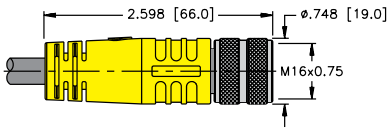
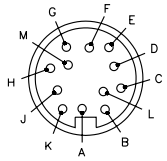
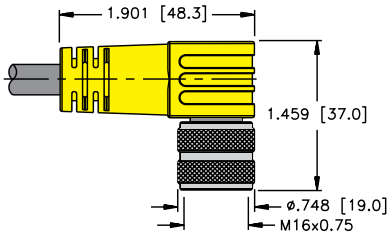
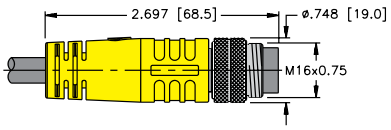
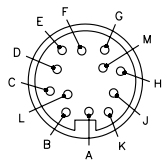
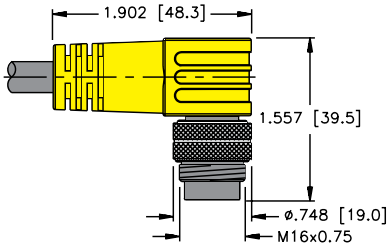
We reserve the right to make technical alterations without prior notice.

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

TURCK

12-Pin Cordsets

- For Eurofast® Junction Boxes and multi-conductor applications
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKM .. 	**BKM 12-001-*** **BKWM 12-001-***	**BSM 12-001-*** **BSWM 12-001-***	AWM TPU Black, 12x22 AWG, 90 °C, 125 VAC/ VDC, 4 A, 7.6 mm OD, Cable #RF51001-*M, 12-wire DC applications, Flexlife®	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female** 
BKWM .. 	**BKM 12-967-*** **BKWM 12-967-***	**BSM 12-967-*** **BSWM 12-967-***	ITC/PLTC PVC Black, 12x22 AWG, 105 °C, 125 VAC/VDC, 4 A,7.5 mm OD, Cable #RF50967-*M, 12-wire DC applications, Flexlife		
BSM .. 					**Male** 
BSWM .. 	**BKM 12-999-*/S101** **BKWM 12-999-*/S101**	**BSM 12-999-*/S101** **BSWM 12-999-*/S101**	AWM TPE Black, 12x22 AWG, 105 °C, 125 VAC/ VDC, 4 A,8.0 mm OD, Cable #RF50999-*M, 12-wire DC applications, Flexlife-20, high flex - Over 20 million cycles		

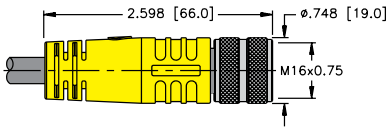
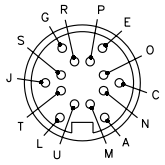
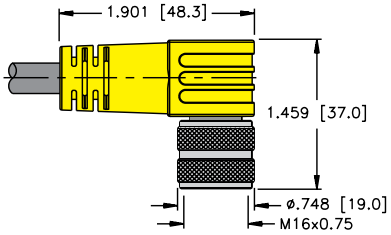
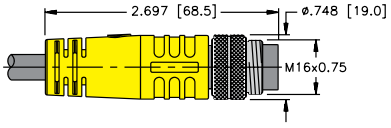
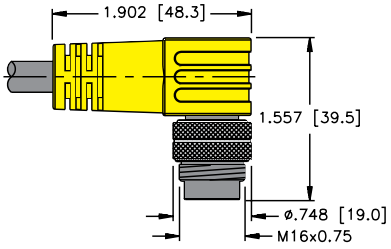
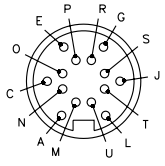
* Length in meters. Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard housing and coupling nut material is anodized aluminum.. "BKM.."; "BKMV.." indicates stainless steel and "BKMK.." indicates nylon.

We reserve the right to make technical alterations without prior notice.

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

14-Pin Cordsets

- For Picofast® Junction Boxes and multi-conductor applications
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKM .. 	**BKM 14-002-*** **BKWM 14-002-***	**BSM 14-002-*** **BSWM 14-002-***	AWM TPU Black, 14x22 AWG, 90 °C, 30 VAC/ VDC, 3 A, 7.6 mm OD, Cable #RF51002-*M, 14-wire DC applications, Flexlife®	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female** 
BKWM .. 	**BKM 14-000-*/S101** **BKWM 14-000-*/S101**	**BSM 14-000-*/S101** **BSWM 14-000-*/S101**	AWM TPE Black, 15x22 AWG, 105 °C, 30 VAC/ VDC, 3 A,9.0 mm OD, Cable #RF51000-*M, 14-wire DC applications, Flexlife-20, high flex - over 20 million cycles		
BSM .. 	**BKM 14-998-*** **BKWM 14-998-***	**BSM 14-998-*** **BSWM 14-998-***	ITC/PLTC PVC Black, 14x22 AWG, 105 °C, 30 VAC/VDC, 3 A, 7.6 mm OD, Cable #RF50998-*M, 14-wire DC applications, Flexlife		
BSWM .. 	**BKM 14-755-*** **BKWM 14-755-***	**BSM 14-755-*** **BSWM 14-755-***	AWM PVC Black, 12x24 AWG, 105 °C, 30 VAC/ VDC, 3 A,6.7 mm OD, Cable #RF50755-*M, 12-wire DC applications, Flexlife	A. N/C C. OG E. BK G. GN J. GY L. N/C M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	**Male** 

* Length in meters. Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard housing and coupling nut material is anodized aluminum.. "BKM.."; "BKMV.." indicates stainless steel and "BKMK.." indicates nylon.

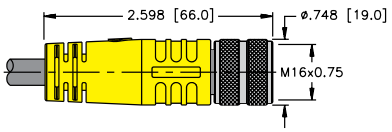
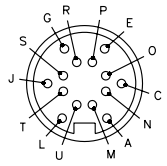
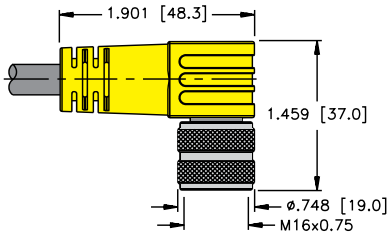
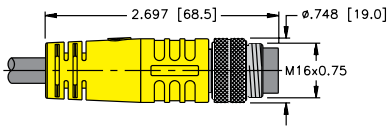
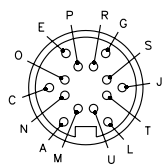
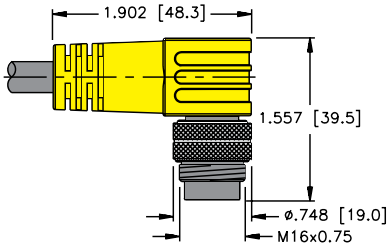
We reserve the right to make technical alterations without prior notice.

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

TURCK

14-Pin Cordsets

- For Eurofast®/Picofast® Junction Boxes and multi-conductor applications
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKM .. 	**BKM 14-836-*** **BKWM 14-836-***	**BSM 14-836-*** **BSWM 14-836-***	AWM PVC Black, 10x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, 6.6 mm OD, Cable #RF50836-*M, 10-wire DC applications, junction box, VB 803M(Z)-BS14, Flexlife®	A. N/C C. GY E. GN G. BK J. N/C L. N/C M. BN N. PK O. YE P. WH R. RD S. VT T. N/C U. BU	**Female** 
BKWM .. 	**BKM 14-954-*/S101** **BKWM 14-954-*/S101**	**BSM 14-954-*/S101** **BSWM 14-954-*/S101**	AWM TPE Black, 12x24 AWG, 105 °C, 30 VAC/ VDC, 3 A,7.6 mm OD, Cable #RF-50943*M, 10-wire DC applications, junction box VB 803M(Z)-BS14, Flexlife-20, high flex - over 20 million cycles		
BSM .. 	**BKM 14-917-*** **BKWM 14-917-***	**BSM 14-917-*** **BSWM 14-917-***	AWM PVC Yellow, 12x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, 6.6 mm OD, Cable #RF50917-*M, 12-wire DC applications, junction boxes 4MBM12-5-BS14 & VB 404M(Z)-BS14, Flexlife	A. RD/BU C. GY E. GN G. BK J. N/C L. GY/PK M. BN N. PK O. YE P. WH R. RD S. VT T. N/C U. BU	**Male** 
BSWM .. 	**BKM 14-917-*** **BKWM 14-917-***	**BSM 14-917-*** **BSWM 14-917-***	AWM PVC Yellow, 12x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, 6.6 mm OD, Cable #RF50917-*M, 12-wire DC applications, junction boxes 4MBM12-5-BS14 & VB 404M(Z)-BS14, Flexlife	A. RD/BU C. GY E. GN G. BK J. N/C L. GY/PK M. BN N. PK O. YE P. WH R. RD S. VT T. N/C U. BU	

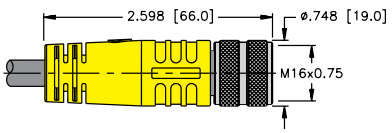
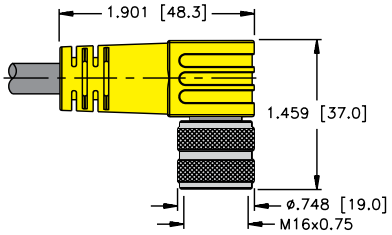
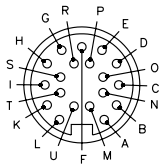
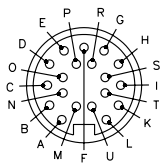
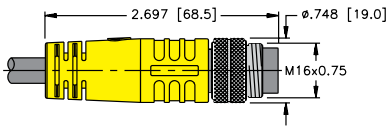
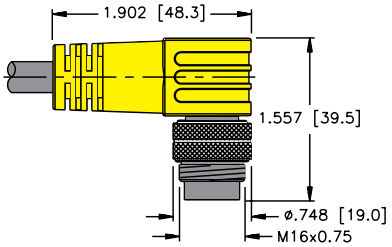
* Length in meters. Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard housing and coupling nut material is anodized aluminum.. "BKM.."; "BKMV.." indicates stainless steel and "BKMK.." indicates nylon.

We reserve the right to make technical alterations without prior notice.

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

19-Pin Cordsets

- For Picofast® Junction Boxes and multi-conductor applications
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKM ..  **BKWM ..** 	**BKM 19-873-*** **BKWM 19-873-***	**BSM 19-873-*** **BSWM 19-873-***	AWM PVC Black, 19x26 AWG, 105 °C, 30 VAC/ VDC, 3 A, 7.1 mm OD, Cable #RF50873-*M, 19-wire DC applications, Flexlife®	A. RD/BU B. WH/GN C. GY D. BN/GN E. GN F. GN/YE G. BK H. WH/YE I. WH/GY K. GY/BN L. GY/PK M. BN N. PK O. YE P. WH R. RD S. VT T. YE/BN U. BU	**Female**  **Male** 
BSM .. 	**BKM 19-995-*** **BKWM 19-995-***	**BSM 19-995-*** **BSWM 19-995-***	ITC/PLTC PVC Black, 19x22 AWG, 105 °C, 30 VAC/VDC, 3 A, 8.5 mm OD, Cable #RF50995-*M, 19-wire DC applications & junction box VB 804M(Z)-BS19, Flexlife	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	
BSWM .. 	**BKM 19-996-*/S90** **BKWM 19-996-*/S90**	**BSM 19-996-*/S90** **BSWM 19-996-*/S90**	AWM TPU Black, 19x22 AWG, 90 °C, 30 VAC/VDC, 3 A,8.4 mm OD, Cable #RF50996-*M, 19-wire DC applications & junction box VB 804M(Z)-BS19, Cut/Abrasion Immune		

* Length in meters. Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard housing and coupling nut material is anodized aluminum.. "BKM.."; "BKMV.." indicates stainless steel and "BKMK.." indicates nylon.

We reserve the right to make technical alterations without prior notice.

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

M16 Receptacle Selection Guide

Mounting Style	Image	Panel Thread Types	Page
Front Mount		**M18**	**G12**
		M20	**G14**
		1/2-14 NPT	**G16**
		3/8-18 NPT	**G18**
Rear Mount		**M18**	**G22**
PCB Mount		**PCB**	**G24**

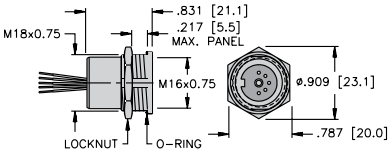
We reserve the right to make technical alterations without prior notice.

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

5 - 8 Pin Receptacles, Front Mount

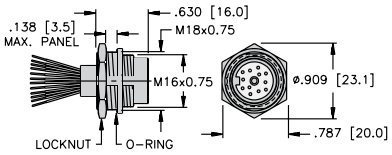
- IEC IP67 Protection

BKF ..(5-8 pin)

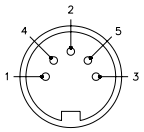
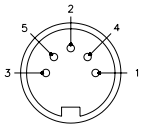
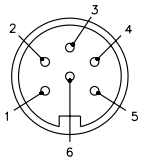
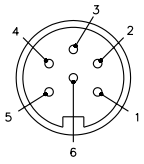
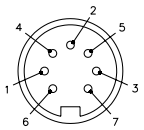
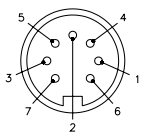
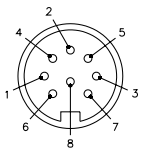
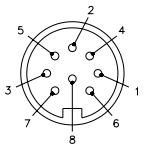


Typical panel cutout is 18 x 17 mm

BSF .. (5-8 pin)



Typical panel cutout is 18 x 17 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKF 5-5-*	**BSF 5-5-***	5x20 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC Application	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKF 6-6-*	**BSF 6-6-***	6x20 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC Application	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKF 7-7-*	**BSF 7-7-***	7x20 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC Application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
	BKF 8-8-*	**BSF 8-8-***	8x20 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC Application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

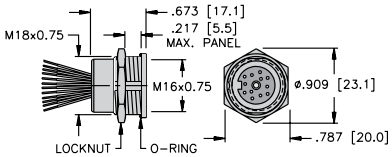
We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Front Mount

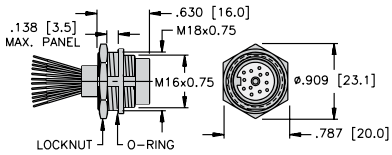
- For use with Junction Box Home Run Cables
- IEC IP67 Protection

BKF ..(12, 14, 19 pin)

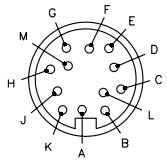
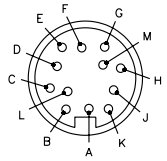
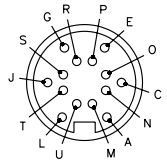
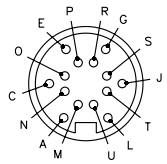
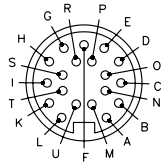
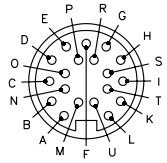


Typical panel cutout is 18 x 17 mm

BSF .. (12, 14, 19 pin)



Typical panel cutout is 18 x 17 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKF 12-12-*	**BSF 12-12-***	12x24 AWG, 105 °C, 125 VAC/VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKF 14-10-*	**BSF 14-10-***	10x24 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKF 14-12-*	**BSF 14-12-***	12x24 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKF 14-14-*	**BSF 14-14-***	14x24 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
	BKF 19-19-*	**BSF 19-19-***	19x24 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

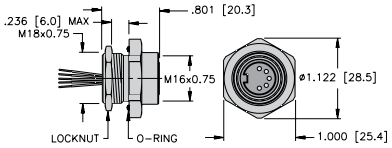
We reserve the right to make technical alterations without prior notice.

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

5 - 8 Pin Receptacles, Front Mount, M18 Threads

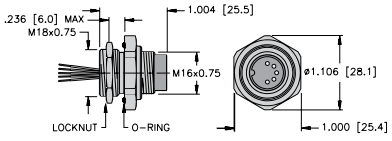
- IEC IP67 Protection

BKF .. M18 (5-8 pin)

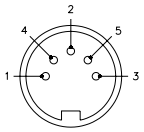
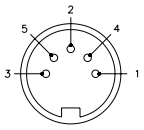
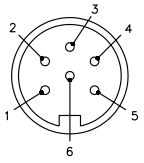
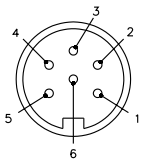
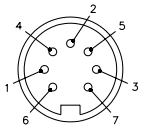
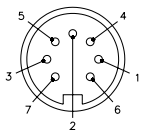
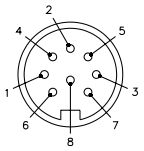
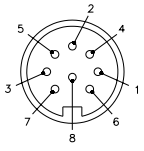


Typical panel cutout is 18.6 mm

BSF .. M18 (5-8 pin)



Typical panel cutout is 18.6 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKF 5-5-*/M18	**BSF 5-5-*/M18**	5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-wire DC application	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKF 6-6-*/M18	**BSF 6-6-*/M18**	6x18 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-wire DC application	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKF 7-7-*/M18	**BSF 7-7-*/M18**	7x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-wire DC application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
	BKF 8-8-*/M18	**BSF 8-8-*/M18**	8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-wire DC application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

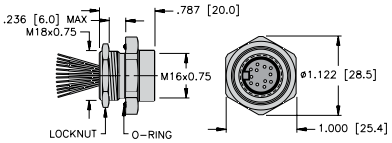
We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Front Mount, M18 Threads

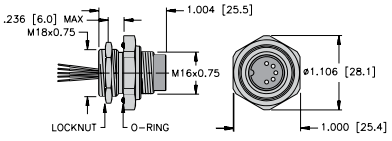
- For use with Junction Box Home Run Cables
- IEC IP67 Protection

BKF .. M18 (12, 14, 19 pin)

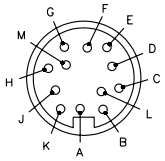
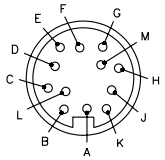
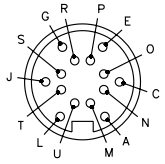
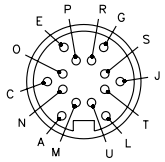
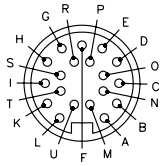
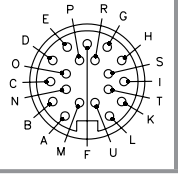


Typical panel cutout is 18.6 mm

BSF .. M18 (12, 14, 19 pin)



Typical panel cutout is 18.6 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout		
BKF .. M18 (12, 14, 19 pin) / BSF .. M18 (12, 14, 19 pin)	**BKF 12-12-*/M18**	**BSF 12-12-*/M18**	12x22 AWG, 105 °C, 125 VAC/ VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT		Female  Male 
	BKF 14-10-*/M18	**BSF 14-10-*/M18**	10x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK	O. YE P. WH R. RD S. VT U. BU	Female 
	BKF 14-12-*/M18	**BSF 14-12-*/M18**	12x22 AWG 105 °C 30 VAC/VDC, 3 A mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN	O. VT P. RD R. WH S. YE T. PK U. BU	
	BKF 14-14-*/M18	**BSF 14-14-*/M18**	14x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG	N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	Male 
	BKF 19-19-*/M18	**BSF 19-19-*/M18**	19x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN	L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	Female  Male 

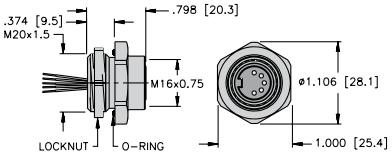
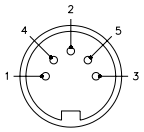
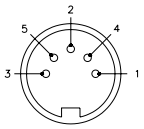
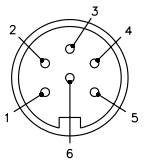
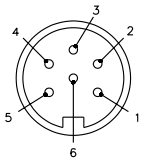
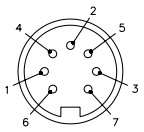
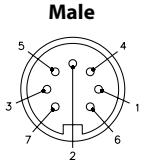
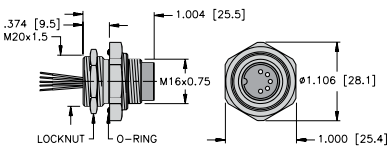
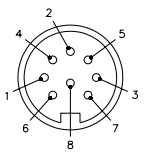
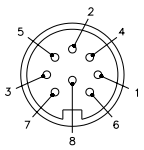
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

5 - 8 Pin Receptacles, Front Mount, M20 Threads

- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..M20 (5-8 pin)  **Typical panel cutout is 18.6 mm**	**BKF 5-5-*/M20**	**BSF 5-5-*/M20**	5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKF 6-6-*/M20	**BSF 6-6-*/M20**	6x18 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKF 7-7-*/M20	**BSF 7-7-*/M20**	7x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
BSF ..M20 (5-8 pin)  **Typical panel cutout is 20.4 mm**	**BKF 8-8-*/M20**	**BSF 8-8-*/M20**	8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

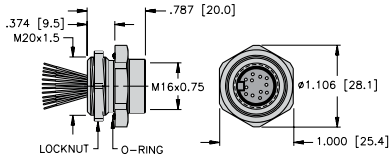
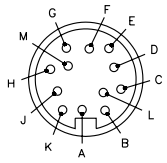
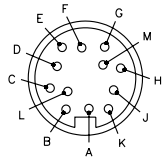
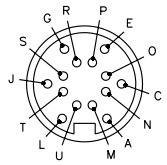
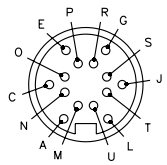
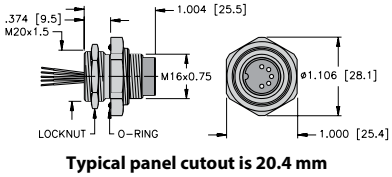
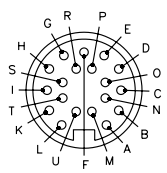
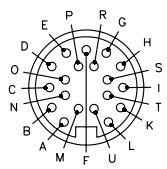
We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Front Mount, M20 Threads

- For use with Junction Box Home Run Cables
- IEC IP67 Protection

We reserve the right to make technical alterations without prior notice.

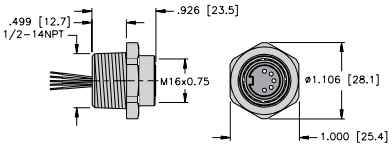
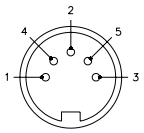
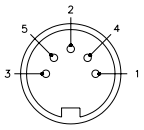
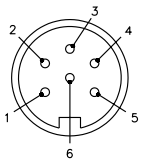
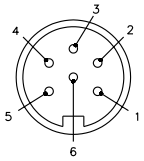
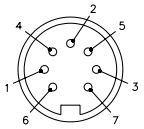
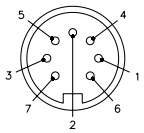
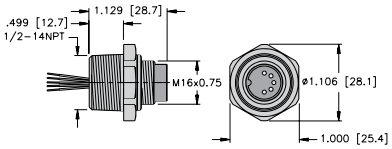
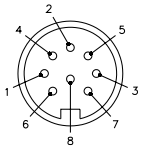
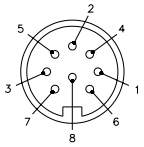
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..M20 (12, 14, 19 pin)  **Typical panel cutout is 18.6 mm**	**BKF 12-12-*/M20**	**BSF 12-12-*/M20**	12x22 AWG, 105 °C, 125 VAC/ VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKF 14-10-*/M20	**BSF 14-10-*/M20**	10x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKF 14-12-*/M20	**BSF 14-12-*/M20**	12x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKF 14-14-*/M20	**BSF 14-14-*/M20**	14x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
BSF ..M20 (12, 14, 19 pin)  **Typical panel cutout is 20.4 mm**	**BKF 19-19-*/M20**	**BSF 19-19-*/M20**	19x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

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

5 - 8 Pin Receptacles, Front Mount, 1/2-14 NPT Threads

- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..1/2-14 NPT (5-8 pin)  **Typical panel cutout is 17.5 mm**	**BKF 5-5-*/14.5/NPT**	**BSF 5-5-*/14.5/NPT**	5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKF 6-6-*/14.5/NPT	**BSF 6-6-*/14.5/NPT**	6x18 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKF 7-7-*/14.5/NPT	**BSF 7-7-*/14.5/NPT**	7x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
BSF ..1/2-14 NPT (5-8 pin)  **Typical panel cutout is 22.5 mm**	**BKF 8-8-*/14.5/NPT**	**BSF 8-8-*/14.5/NPT**	8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

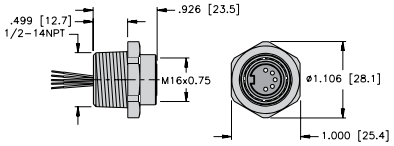
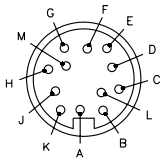
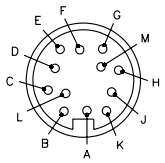
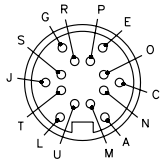
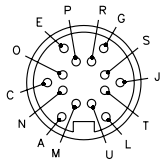
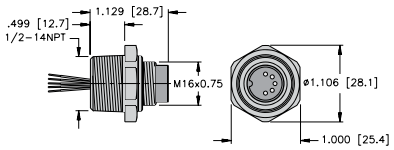
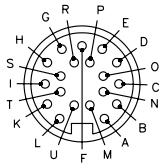
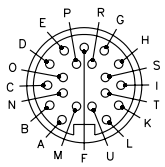
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

TURCK

12, 14 and 19-Pin Receptacles, Front Mount, 1/2-14 NPT Threads

- For use with Junction Box Home Run Cables
- IEC IP67 Protection

We reserve the right to make technical alterations without prior notice.

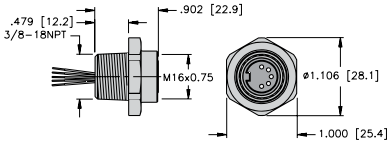
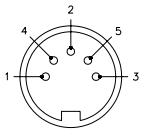
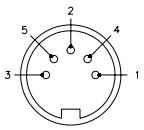
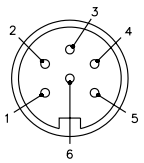
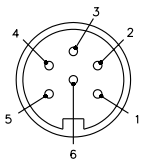
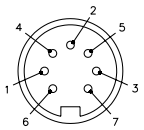
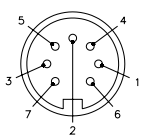
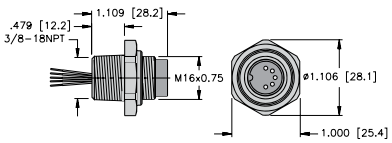
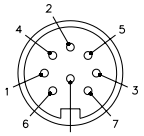
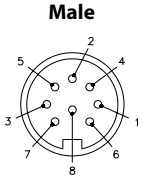
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..1/2-14 NPT (12, 14, 19 pin)  **Typical panel cutout is 22.5 mm**	**BKF 12-12-*/14.5/NPT**	**BSF 12-12-*/14.5/NPT**	12x22 AWG, 105 °C, 125 VAC/VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKF 14-10-*/14.5/NPT	**BSF 14-10-*/14.5/NPT**	10x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKF 14-12-*/14.5/NPT	**BSF 14-12-*/14.5/NPT**	12x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKF 14-14-*/14.5/NPT	**BSF 14-14-*/14.5/NPT**	14x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
BSF ..1/2-14 NPT (12, 14, 19 pin)  **Typical panel cutout is 22.5 mm**	**BKF 19-19-*/14.5/NPT**	**BSF 19-19-*/14.5/NPT**	19x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.." and "BSFV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

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

5 - 8 Pin Receptacles, Front Mount, 3/8-18 NPT Threads

- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..3/8-18 NPT (5-8 pin)  **Typical panel cutout is 17.5 mm**	**BKF 5-5-*/18.375/NPT**	**BSF 5-5-*/18.375/NPT**	5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKF 6-6-*/18.375/NPT	**BSF 6-6-*/18.375/NPT**	6x18 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKF 7-7-*/18.375/NPT	**BSF 7-7-*/18.375/NPT**	7x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
BSF ..3/8-18 NPT (5-8 pin)  **Typical panel cutout is 17.5 mm**	**BKF 8-8-*/18.375/NPT**	**BSF 8-8-*/18.375/NPT**	8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

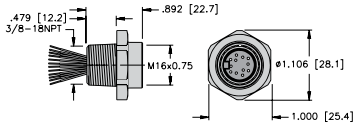
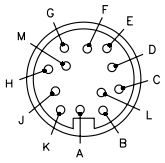
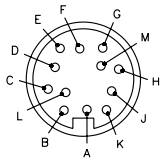
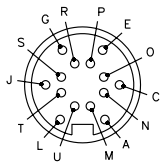
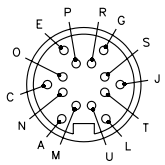
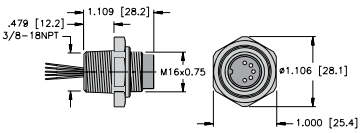
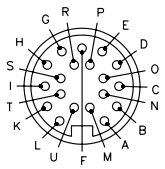
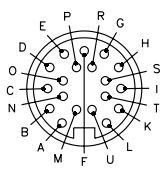
* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF..".
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Front Mount, 3/8-18 NPT Threads

- For use with Junction Box Home Run Cables
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
BKF ..3/8-18 NPT (12, 14, 19 pin)  **Typical panel cutout is 17.5 mm**	**BKF 12-12-*/18.375/NPT**	**BSF 12-12-*/18.375/NPT**	12x22 AWG, 105 °C, 125 VAC/VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKF 14-10-*/18.375/NPT	**BSF 14-10-*/18.375/NPT**	10x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKF 14-12-*/18.375/NPT	**BSF 14-12-*/18.375/NPT**	12x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKF 14-14-*/18.375/NPT	**BSF 14-14-*/18.375/NPT**	14x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
BSF ..3/8-18 NPT (12, 14, 19 pin)  **Typical panel cutout is 17.5 mm**	**BKF 19-19-*/18.375/NPT**	**BSF 19-19-*/18.375/NPT**	19x22 AWG, 105 °C, 30 VAC/VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "BSF.."l.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

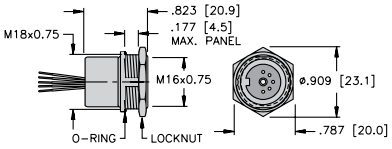
We reserve the right to make technical alterations without prior notice.

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

5 - 8 Wire Receptacles, Rear Mount

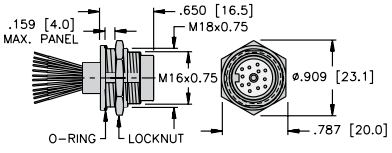
- IEC IP67 Protection

BKFD .. (5-8 pin)

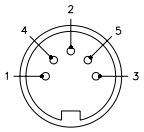
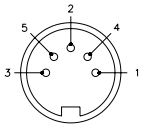
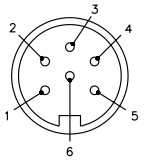
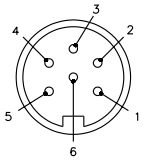
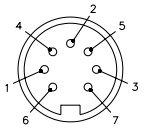
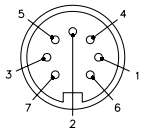
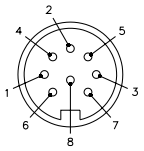
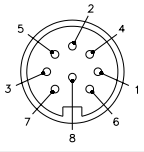


Typical panel cutout is 18 x 17 mm

BSFD .. (5-8, 12-19 pin)



Typical panel cutout is 18 x 17 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKFD 5-5-*	**BSFD 5-5-***	5x20 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC application	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKFD 6-6-*	**BSFD 6-6-***	6x20 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC application	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKFD 7-7-*	**BSFD 7-7-***	7x20 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
	BKFD 8-8-*	**BSFD 8-8-***	8x20 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC application	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead lengths is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

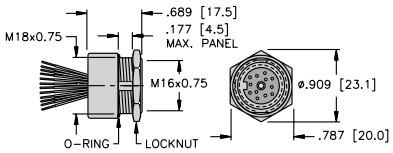
We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Rear Mount

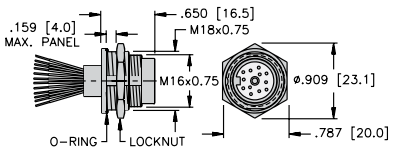
- For use with Junction Box Home Run Cables
- IEC IP67 Protection

BKFD ..(12, 14, 19 pin)

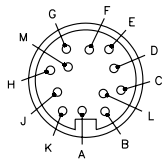
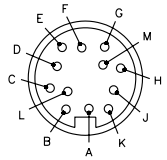
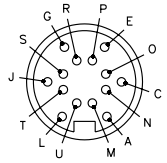
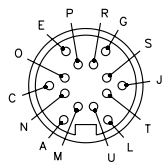
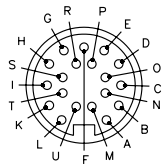
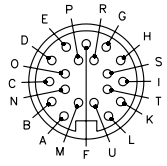


Typical panel cutout is 18 x 17 mm

BSFD .. (12, 14, 19 pin)



Typical panel cutout is 18 x 17 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKFD 12-12-*	**BSFD 12-12-***	12x24 AWG, 105 °C, 125 VAC/ VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKFD 14-10-*	**BSFD 14-10-***	10x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKFD 14-12-*	**BSFD 14-12-***	12x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKFD 14-14-*	**BSFD 14-14-***	14x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
	BKFD 19-19-*	**BSFD 19-19-***	19x24 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

* Length in meters. Standard lead lengths is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

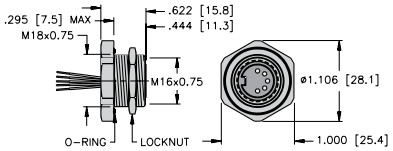
We reserve the right to make technical alterations without prior notice.

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

5 - 8 Pin Receptacles, Rear Mount, M18 Threads

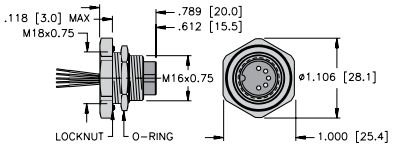
- IEC IP67 Protection

BKFD .. M18 (5-8 pin)

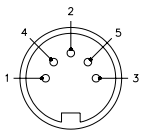
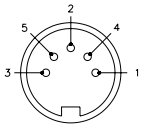
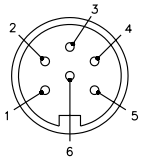
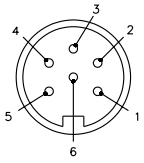
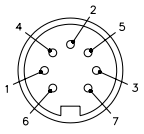
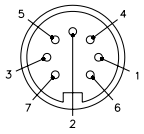
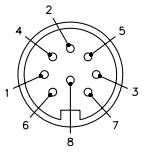
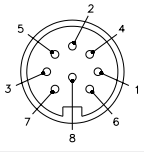


Typical panel cutout is 18.6 mm

BSFD.. M18 (5-8 pin)



Typical panel cutout is 18.6 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKFD 5-5-*/M18	**BSFD 5-5-*/M18**	5x18 AWG, 105 °C, 300 VAC/VDC, 8 A, 5-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY	**Female**  **Male** 
	BKFD 6-6-*/M18	**BSFD 6-6-*/M18**	6x18 AWG, 105 °C, 300 VAC/VDC, 7 A, 6-Wire DC applications	1. BN 2. WH 3. BU 4. BK 5. GY 6. PK	**Female**  **Male** 
	BKFD 7-7-*/M18	**BSFD 7-7-*/M18**	7x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 7-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU	**Female**  **Male** 
	BKFD 8-8-*/M18	**BSFD 8-8-*/M18**	8x18 AWG, 105 °C, 125 VAC/VDC, 7 A, 8-Wire DC applications	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD	**Female**  **Male** 

* Length in meters. Standard lead length is 0.5 meter. Consult factory for other lengths.
Standard housing material is nickel plated brass. "BSFDV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

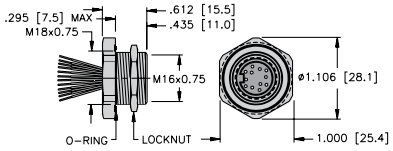
TURCK

12, 14 and 19-Pin Receptacles, Rear Mount, M18 Threads

- **IEC IP67 Protection**

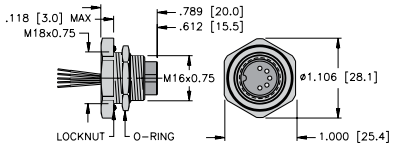
We reserve the right to make technical alterations without prior notice.

BKFD .. M18 (12, 14, 19 pin)

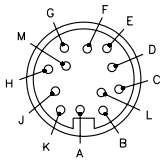
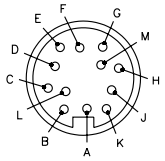
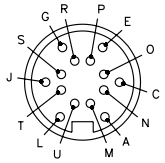
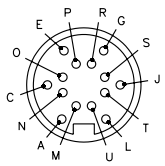
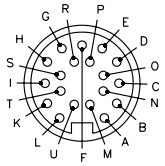
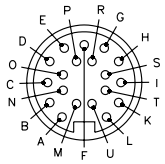


Typical panel cutout is 18.6 mm

BSFD.. M18 (12, 14, 19 pin)



Typical panel cutout is 18.6 mm

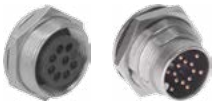
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
	BKFD 12-12-*/M18	**BSFD 12-12-*/M18**	12x22 AWG, 105 °C, 125 VAC/ VDC, 4 A, mates with 12-pin connectors, 12 conductors	A. BN B. BU C. WH D. GN E. YE F. GY G. PK H. RD J. BK K. OG L. TN M. VT	**Female**  **Male** 
	BKFD 14-10-*/M18	**BSFD 14-10-*/M18**	10x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 10 conductors	C. GY E. GN G. BK M. BN N. PK O. YE P. WH R. RD S. VT U. BU	**Female** 
	BKFD 14-12-*/M18	**BSFD 14-12-*/M18**	12x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 12 conductors	C. OG E. BK G. GN J. GY M. BN N. TN O. VT P. RD R. WH S. YE T. PK U. BU	
	BKFD 14-14-*/M18	**BSFD 14-14-*/M18**	14x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 14-pin connectors, 14 conductors	A. BN C. RD/BU E. BK G. PK J. GN L. BU M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Male** 
	BKFD 19-19-*/M18	**BSFD 19-19-*/M18**	19x22 AWG, 105 °C, 30 VAC/ VDC, 3 A, mates with 19-pin connectors, 19 conductors	A. BU B. GY/PK C. RD/BU D. WH/GN E. BK F. BN/GN G. PK H. WH/YE I. GN K. YE/BN L. BN M. OG N. GY/BN O. VT P. WH R. RD S. GY T. YE U. TN	**Female**  **Male** 

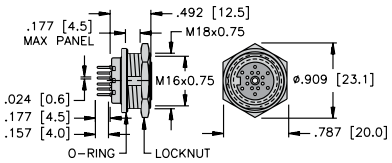
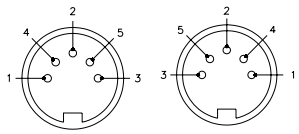
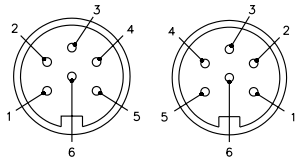
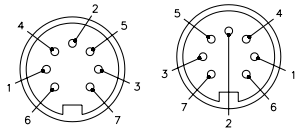
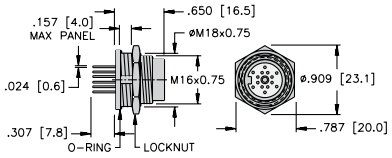
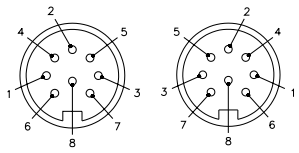
* Length in meters. Standard lead length is 0.5 meter. Consult factory for other lengths.
Standard housing material is nickel plated brass. "BSFDV.." indicates stainless steel.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

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

5 - 8 Pin Receptacles, Rear Mount, PCB Pins

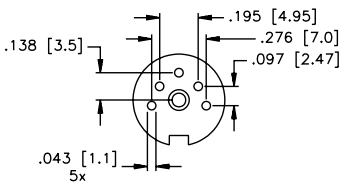
- Locknuts and O-rings included
- Easy Keyway Orientation
- IEC IP67 Protection



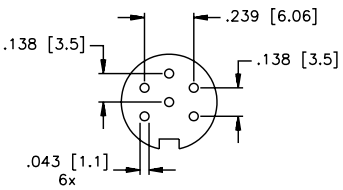
Connector Style	Female Part Number	Male Part Number	Features	Pinout
BKFD ..PCB (5-8 pin) 	**BKFD 5-PCB**	**BSFD 5-PCB**	Nickel plated brass, 5-pin PCB pins, 105 °C, 60 V, 5 A, M18 x .75 threads, mates with 5-pin cordsets	Female / Male 
	BKFD 6-PCB	**BSFD 6-PCB**	Nickel plated brass, 5-pin PCB pins, 105 °C, 250 V, 5 A, M18 x .75 threads, mates with 6-pin cordsets	Female / Male 
	BKFD 7-PCB	**BSFD 7-PCB**	Nickel plated brass, 5-pin PCB pins, 105 °C, 60 V, 5 A, M18 x .75 threads, mates with 7-pin cordsets	Female / Male 
BSFD ..PCB (5-8 pin) 	**BKFD 8-PCB**	**BSFD 8-PCB**	Nickel plated brass, 5-pin PCB pins, 105 °C, 60 V, 5 A, M18 x .75 threads, mates with 8-pin cordsets	Female / Male 

We reserve the right to make technical alterations without prior notice.

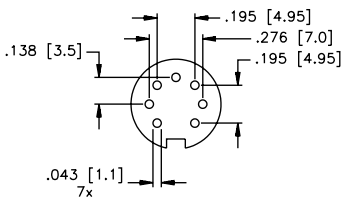
5-Pin PCB Layout



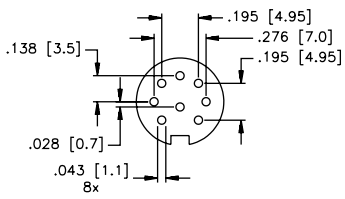
6-Pin PCB Layout



7-Pin PCB Layout



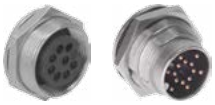
8-Pin PCB Layout

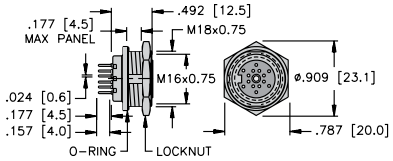
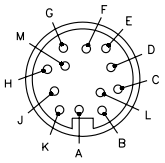
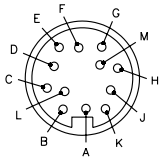
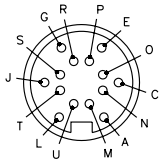
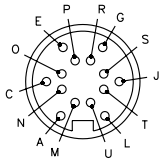
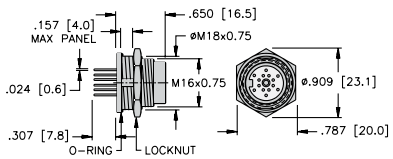
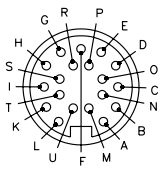
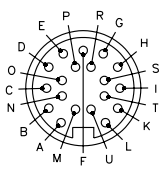


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

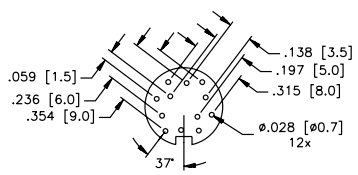
12, 14 and 19-Pin Receptacles, Rear Mount, PCB Pins

- Locknuts and O-rings included
- Easy Keyway Orientation
- IEC IP67 Protection

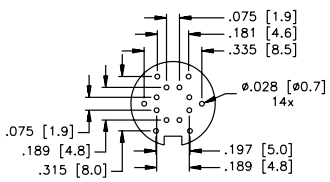


Connector Style	Female Part Number	Male Part Number	Features	Pinout
BKFD ..PCB (12, 14, 19 pin) 	**BKFD 12-PCB**	**BSFD 12-PCB**	Nickel plated brass, 12-pin PCB pins, 105 °C, 60 V, 3 A, M18 x .75 threads, mates with 12-pin cordsets	**Female**  **Male** 
	BKFD 14-PCB	**BSFD 14-PCB**	Nickel plated brass,14-pin PCB pins, 105 °C, 60 V, 3 A, M18 x .75 threads, mates with 14-pin cordsets	**Female**  **Male** 
BSFD ..PCB (12, 14, 19 pin) 	**BKFD 19-PCB**	**BSFD 19-PCB**	Nickel plated brass, 19-pin PCB pins, 105 °C, 60 V, 3 A, M18 x .75 threads, mates with 19-pin cordsets	**Female**  **Male** 

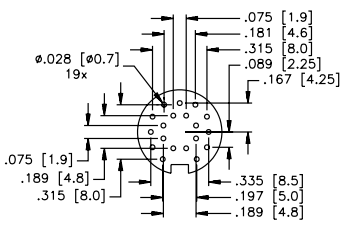
5-Pin PCB Layout



7-Pin PCB Layout



8-Pin PCB Layout

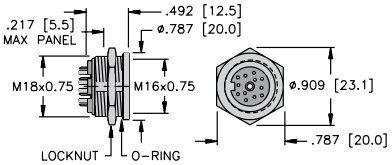
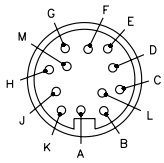
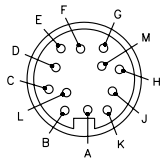
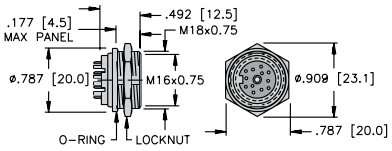
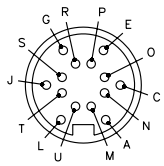
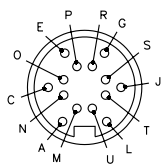
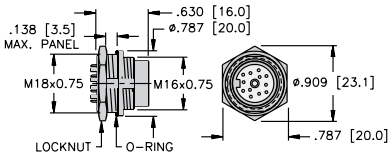
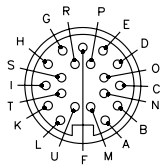
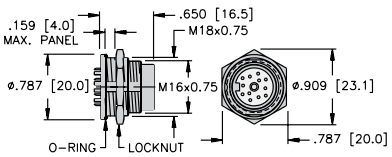
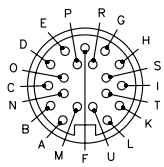


We reserve the right to make technical alterations without prior notice.

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

12, 14 and 19-Pin Receptacles, Solder Cups, Front and Rear Mount

- **Facilitates Field Replacements**

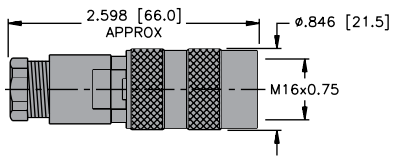
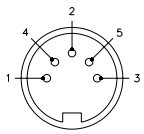
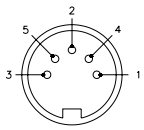
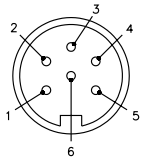
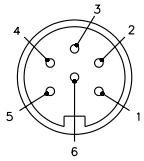
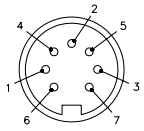
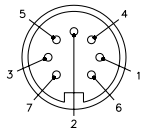
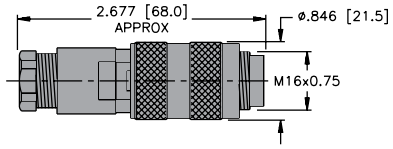
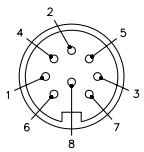
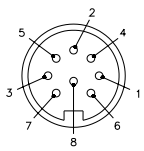
Connector Style	Female Part Number	Male Part Number	Features	Pinout
BKF (12, 14, 19 pin) 	**BKF 12**	**BSF 12**	Nickel plated brass, solder cup, accepts up to 12x24 AWG conductors, 95 °C, 125 V, 4 A, mates with Picofast® junction boxes, front mount	**Female** 
	BKFD 12	**BSFD 12**	Nickel plated brass, solder cup, accepts up to 12x24 AWG conductors, 95 °C, 125 V, 3 A, mates with Picofast junction boxes, rear mount	**Male** 
BKFD (12, 14, 19 pin) 	**BKF 14**	**BSF 14**	Nickel plated brass, solder cup, accepts up to 14x24 AWG conductors, 95 °C, 125 V, 3 A, mates with Picofast junction boxes, front mount	**Female** 
	BKFD 14	**BSFD 14**	Nickel plated brass, solder cup, accepts up to 14x24 AWG conductors, 95 °C, 125 V, 3 A, mates with Picofast junction boxes, rear mount	**Male** 
BSF (12, 14, 19 pin) 	**BKF 19**	**BSF 19**	Nickel plated brass, solder cup, accepts up to 19x24 AWG conductors, 95 °C, 125 V, 3 A, mates with Picofast junction boxes, front mount	**Female** 
BSFD (12, 14, 19 pin) 	**BKFD 19**	**BSFD 19**	Nickel plated brass, solder cup, accepts up to 19x24 AWG conductors, 95 °C, 30 V, 3 A, mates with Picofast junction boxes, rear mount	**Male** 

We reserve the right to make technical alterations without prior notice.

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

5 - 8 Pin Field Wireable, In-line Connectors

- **For use with Custom Wiring or Junction Boxes**
- **IEC IP67 Protection**

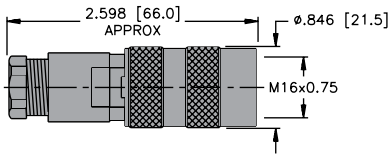
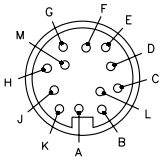
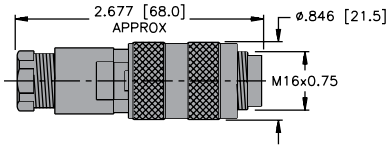
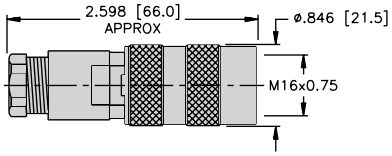
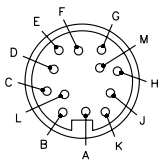
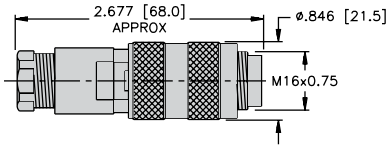
Connector Style	Female Part Number	Male Part Number	Features	Pinout
BK .. 	**BK 5-0**	**BS 5-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 5x18 AWG conductors, 85 °C, 60 VAC/DC, 6 A, Mates with 5-pin cordsets and receptacles	**Female**  **Male** 
	BK 6-0	**BS 6-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 6x18 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with 6-pin cordsets and receptacles	**Female**  **Male** 
	BK 7-0	**BS 7-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 7x18 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with 7-pin cordsets and receptacles	**Female**  **Male** 
BS .. 	**BK 8-0**	**BS 8-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 8x18 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with 8-pin cordsets and receptacles	**Female**  **Male** 

We reserve the right to make technical alterations without prior notice.

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

12-pin Field Wireable, In-line Connectors

- **Standard Nylon and Shielded**
- **IEC IP67 Protection**

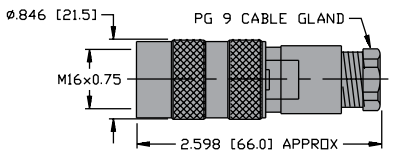
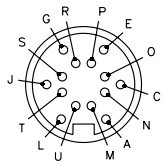
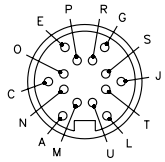
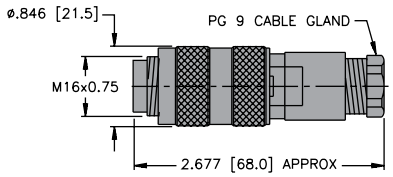
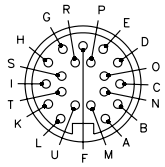
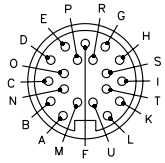
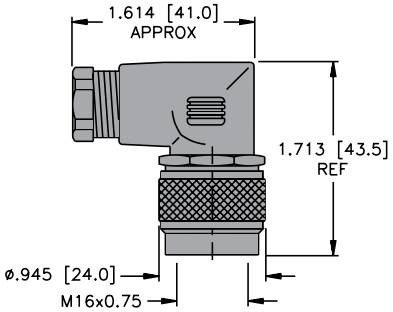
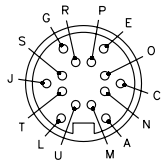
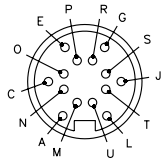
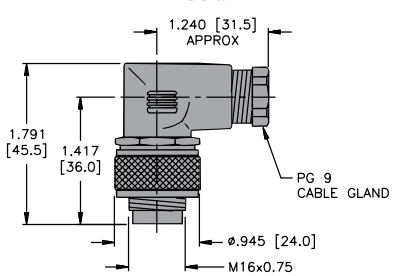
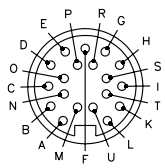
Connector Style	Female Part Number	Male Part Number	Features	Pinout
BK .. 	**BK 12-0**	**BS 12-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter solder cup, accepts up to 12x24 AWG conductors, 85 °C, 60 VDC/VAC, 3 A, mates with 12-pin cordsets and receptacles	**Female** 
BS .. 				
BKS .. 	**BKS 12-0**	**BSS 12-0**	Stainless steel PG 9 cable gland, accepts 6-8 mm cable diameter solder cup, accepts up to 12x24 AWG conductors, 85 °C, 60 VDC/VAC, 3 A, mates with 12-pin cordsets and receptacles, shielded	**Male** 
BSS .. 				

We reserve the right to make technical alterations without prior notice.

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

14 and 19-Pin Field Wireable, In-line Connectors

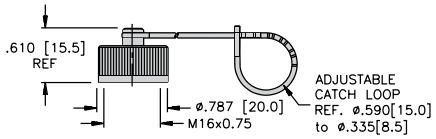
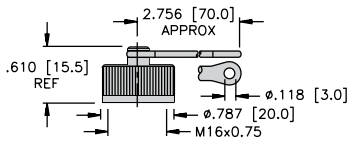
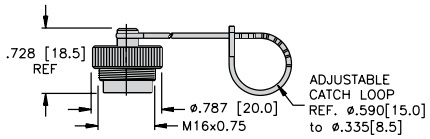
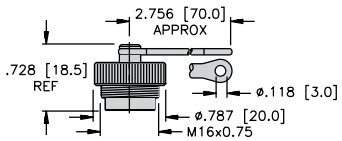
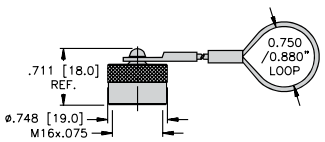
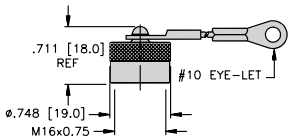
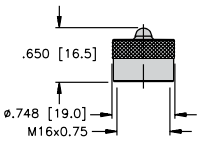
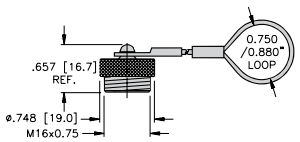
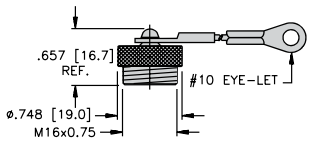
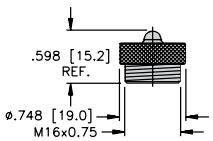
- Male Connectors
- For use with Custom Wiring or Junction Boxes
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout
BK .. 	**BK 14-0**	**BS 14-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 14x24 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with Picofast® junction boxes, unshielded	**Female**  **Male** 
BS .. 	**BK 19-0**	**BS 19-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 19x24 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with Picofast junction boxes, unshielded	**Female**  **Male** 
WBK .. 	**WBK 14-0**	**WBS 14-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 14x24 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with Picofast junction boxes, unshielded	**Female**  **Male** 
WBS .. 	**WBK 19-0**	**WBS 19-0**	Nylon PG 9 cable gland, accepts 6-8 mm cable diameter, solder cup, accepts up to 19x24 AWG conductors, 85 °C, 60 VAC/DC, 3 A, Mates with Picofast junction boxes, unshielded	**Male** 

We reserve the right to make technical alterations without prior notice.

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

Closure Caps

Connector Style	Part Number	Features
	**BKK-CC**	Nylon, M16 threads, 4 1/2 inch plastic lanyard and 3/4 inch loop, mates to male cordsets, receptacles, or junction boxes
	**BKFK-CC**	Nylon, M16 threads, 2 3/4 inch plastic lanyard and #10 eye-let, mates to male cordsets, receptacles, or junction boxes
	**BSK-CC**	Nylon, M16 threads, 4 1/2 inch plastic lanyard and 3/4 inch loop, mates to female cordsets, receptacles, or junction boxes
	**BSFK-CC**	Nylon, M16 threads, 2 3/4 inch plastic lanyard and #10 eye-let, mates to female cordsets, receptacles, or junction boxes
	**BKM-CC**	Nickel plated brass, M16 threads, 6" lanyard, mates with male cordsets and receptacles
	**BKF-CC**	Nickel plated brass, M16 threads, 6" lanyard with eyelet, mates with male cordsets and receptacles
	**BKM-MC**	Nickel plated brass, M16 threads, no lanyard, mates with male cordsets and receptacles
	**BSM-CC**	Nickel plated brass, M16 threads, 6" lanyard
	**BSF-CC**	Nickel plated brass, M16 threads, 6" lanyard with eyelet
	**BSM-MC**	Nickel plated brass, M16 threads, no lanyard

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	H2
Cordsets	H5
Receptacles	H19
Field Wireables	H32
Conduit Adapters	H35
Accessories	H36

Features

- M23 and M27 threaded connectors
- M23 available in 12, 16 and 19-pin
- M27 available in 26 and 28-pin
- Up to 9 Amps, 300 Volts rated
- High density
- IEC IP67 protection

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

Cordset Part Number key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

C	S			M		12	-	10	-	*	/S..

M23 Multifast Cordset

Gender

K	=	female contact holder, female threads
S	=	male contact holder, female threads
SS	=	male contact holder, male threads, non-rotating coupling nut
X	=	female contact holder, male threads non-rotating coupling nut

Color Code

(blank)	=	DC color code, standard wiring
A	=	DC color code, isolated power supply
R	=	AC color code, standard wiring
B	=	AC color code, standard wiring with LEDs
N	=	NAMUR color code
C	=	DC color code

Configuration

(blank)	=	straight
W	=	right angle

Connector Style

(blank)	=	metal connector assembly
M	=	molded plug body
MH	=	molded plug body and push-pull coupling nut

Coupling Nut Material / Shielding

(blank)	nickel plated brass
V	stainless steel
S	shielded

Varieties

(blank)	=	PVC jacket
/S90	=	TPU jacket
/S101	=	TPE jacket, Flexlife-20
/S ..	=	consult factory, special
/CS ..	=	consult factory, special

Length in Meters

Number of Wires / AWG / Color Codes

See catalog or source drawing for details

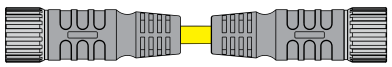
Number of Pins

12	=	12
16	=	16
19	=	19

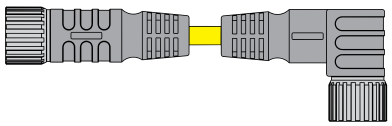
Insertion Point of Extension Cable and Second Prefix*

* Male connector listed first, female connector second
Example: **CSM CKM 12-10-5**

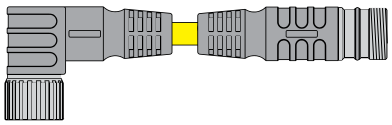
Extension Examples



C	S			M		C	K			M		12	-	10	-	5	/S..



C	K			M		C	K		W	M		12	-	10	-	5	/S..



C	K		W	M		C	S	S		M		12	-	10	-	5	/S..

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

Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

C	K		F		16	-	10	-	*	/S..

M23 Multifast Receptacle

Gender

K = female contact holder, male threads
S = male contact holder, male threads

Color Code

(blank) = DC color code, standard wiring
A = DC color code, isolated power supply
R = AC color code, standard wiring
B = AC color code, standard wiring with LEDs
N = NAMUR color code
C = DC color code

Designator for Receptacle

Mounting Style

(blank) = front mount
D = rear mount
L = front mount, long threads
DF = flange for mounting

Number of Pins

12 = 12
16 = 16
19 = 19

Number of Wires / AWG / Color Codes

See catalog or source drawing for details

Length in Meters

Varieties

/S .. = consult factory, special
/CS .. = consult factory, special

multifast®

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

Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

D S M 26 - 631 - * /S..

M27 Multifast Cordset

Gender

K = female contact holder, female threads
S = male contact holder, female threads
SS = male contact holder, male threads
non-rotating coupling nut

Connector Style

(blank) = metal connector assembly
M = Dmolded plug body

Insertion Point of Extension Cable and Second Prefix*

* Male connector listed first, female connector second
Example: **DSM DKM 26-631-5**

Number of Pins

26 = 26
28 = 28

Number of Wires / AWG / Color Codes

631 (for 26-pin) = 25x22 AWG, 1x22 AWG drain
061 (for 28-pin) = 27x22 AWG, 1x22 AWG drain
381 (for 26-pin) = 25x22 AWG, 1x24 AWG drain, braided shield

Length in Meters

Varieties

/S .. = consult factory, special
/CS .. = consult factory, special

Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

D K F 26 - 25 - * [ ]

M27 Multifast Cordset

Gender

K = female contact holder, male threads
S = male contact holder, male threads

Designator for Receptacle

Number of Pins

26 = 26
28 = 28

Number of Wires

25 = 25 (for 26-pin)
27 = 27 (for 28-pin)

Length in Meters

Varieties

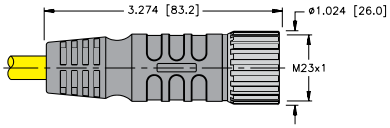
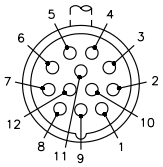
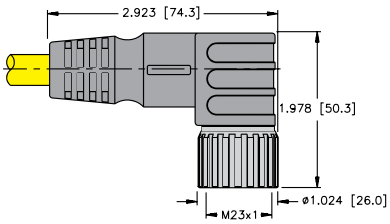
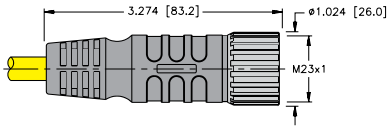
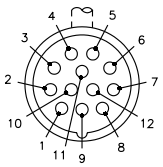
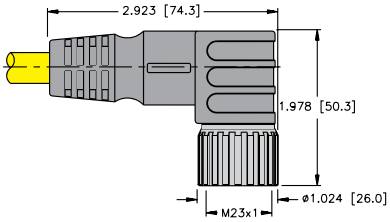
/S .. = consult factory, special
/CS .. = consult factory, special

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

12-Pin Cordsets, DC Color Code, Standard Wiring

- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection
- 300 V, 6 A

We reserve the right to make technical alterations without prior notice.

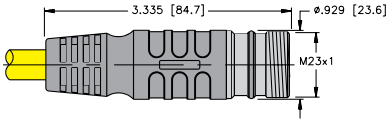
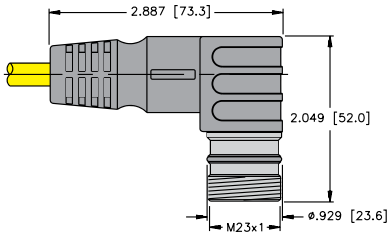
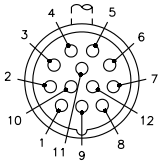
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CKM .. 	**CKM 12-7-*** **CKWM 12-7-***	**CSM 12-7-*** **CSWM 12-7-***	ITC/PLTC PVC Yellow, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50637-*M, 4 port, 1 signal per port, Flexlife®	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 12. GN/YE	**Female** 
	CKM 12-7-*/S90 **CKWM 12-7-*/S90**	**CSM 12-7-*/S90** **CSWM 12-7-*/S90**	AWM TPU Yellow, 7x18 AWG, 90 °C, 6.7 mm OD, Cable #RF50676-*M, 4 port, 1 signal per port, Cut/Abrasion Immune		
CKWM.. 	**CKM 12-9-*** **CKWM 12-9-***	**CSM 12-9-*** **CSWM 12-9-***	ITC/PLTC PVC Yellow, 9x18 AWG, 105 °C, 9.6 mm OD, Cable #RF50636-*M, 6 port, 1 signal per port, Flexlife	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 9. PK 10. RD 12. GN/YE	
	CKM 12-9-*/S90 **CKWM 12-9-*/S90**	**CSM 12-9-*/S90** **CSWM 12-9-*/S90**	AWM TPU Yellow, 9x18 AWG, 90 °C, 9.6 mm OD, Cable #RF50677-*M, 6 port, 1 signal per port, Cut/Abrasion Immune		
CSM .. 	**CKM 12-11-*** **CKWM 12-11-***	**CSM 12-11-*** **CSWM 12-11-***	ITC/PLTC PVC Yellow, 11x18 AWG, 105 °C, 10.5 mm OD,Cable #RF51088-*M, 8 port, 1 signal per port, Flexlife	1. BN 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	**Male** 
	CKM 12-11-*/S90 **CKWM 12-11-*/S90**	**CSM 12-11-*/S90** **CSWM 12-11-*/S90**	AWM TPU Yellow, 11x18 AWG, 90 °C, 10 mm OD, Cable #RF50678-*M, 8 port, 1 signal per port, Cut/Abrasion Immune		
CSWM .. 	**CKM 12-12-*/S101** **CKWM 12-12-*/S101**	**CSM 12-12-*/S101** **CSWM 12-12-*/S101**	AWM TPE Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50915-*M 8 port, Flexlife-20, High Flex - Over 20 million cycles	1. BN 2. BU 3. WH 4. GN/YE 5. OG 6. YE 7. GY 8. PK 9. RD 10. BN/WH 11. BU/WH 12. GN/WH	
	CKM 12-12-*/S817 **CKWM 12-12-*/S817**	**CSM 12-12-*/S817** **CSWM 12-12-*/S817**	ITC/PLTC PVC Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50606-*M, Flexlife		

* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKM.."; "CKMV.." indicates stainless steel coupling nut.

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

12-Pin Cordsets, DC Color Code, Standard Wiring

- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection
- 300 V, 6 A

Connector Style	Male Part Number	Features	Pinout	
CSSM ..  **Non-rotating coupling nut** **CSSWM ..**  **Non-rotating coupling nut**	**CSSM 12-7-*** **CSSWM 12-7-***	ITC/PLTC PVC Yellow, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50637-*M, 4 port, 1 signal per port, Flexlife®	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 12. GN/YE	**Male** 
	CSSM 12-7-*/S90 **CSSWM 12-7-*/S90**	AWM TPU Yellow, 7x18 AWG, 90 °C, 6.7 mm OD, Cable #RF50676-*M, 4 port, 1 signal per port, Cut/ Abrasion Immune		
	CSSM 12-9-* **CSSWM 12-9-***	ITC/PLTC PVC Yellow, 9x18 AWG, 105 °C, 9.6 mm OD, Cable #RF50636-*M, 6 port, 1 signal per port, Flexlife	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 9. PK 10. RD 12. GN/YE	
	CSSM 12-9-*/S90 **CSSWM 12-9-*/S90**	AWM TPU Yellow, 9x18 AWG, 90 °C, 9.6 mm OD, Cable #RF50677-*M, 6 port, 1 signal per port, Cut/ Abrasion Immune		
	CSSM 12-11-* **CSSWM 12-11-***	ITC/PLTC PVC Yellow, 11x18 AWG, 105 °C, 10.5 mm OD, Cable #RF51088-*M, 8 port, 1 signal per port, Flexlife	1. BN 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	
	CSSM 12-11-*/S90 **CSSWM 12-11-*/S90**	AWM TPU Yellow, 11x18 AWG, 90 °C, 10 mm OD, Cable #RF50678-*M, 8 port, 1 signal per port, Cut/ Abrasion Immune		
	CSSM 12-12-*/S101 **CSSWM 12-12-*/S101**	AWM TPE Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50915-*M 8 port, Flexlife-20, High Flex - Over 20 million cycles	1. BN 2. BU 3. WH 4. GN/YE 5. OG 6. YE 7. GY 8. PK 9. RD 10. BN/WH 11. BU/WH 12. GN/WH	
	CSSM 12-12-*/S817 **CSSWM 12-12-*/S817**	ITC/PLTC PVC Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50606-*M, Flexlife		

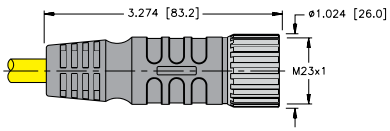
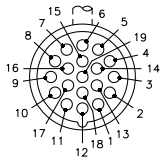
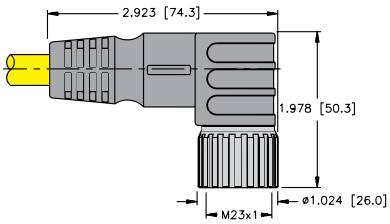
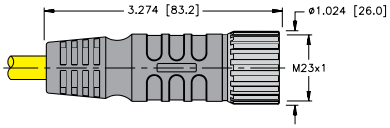
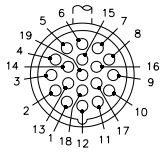
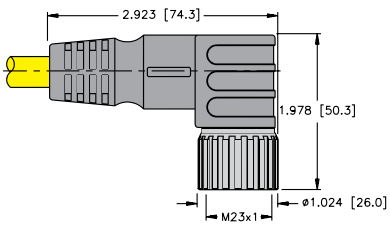
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CSSM..".

We reserve the right to make technical alterations without prior notice.

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

19-Pin Cordsets, DC Color Code, Standard Wiring

- **For Eurofast® Junction Boxes and Multi-Conductor Applications**
- **IEC IP67 Protection**
- **150 V, 9 A (18 AWG) & 2 A (22 AWG)**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CKM .. 	**CKM 19-11-*** **CKWM 19-11-***	**CSM 19-11-*** **CSWM 19-11-***	ITC/PLTC PVC Yellow, 3x18, 8x22 AWG, 105 °C, 8.5 mm OD, Cable #RF50624-*M, 4-port, 2 signals per port, Flexlife®	3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 12. GN/YE 14. BN/GN 15. WH 16. YE 19. BN	**Female** 
	CKM 19-11-*/S90 **CKWM 19-11-*/S90**	**CSM 19-11-*/S90** **CSWM 19-11-*/S90**	AWM TPU Yellow, 3x18, 8x22 AWG, 90 °C, 8.4 mm OD, Cable #RF50718-*M, 4-port, 2 signals per port, Cut/Abrasion Immune		
CKWM .. 	**CKM 19-15-*** **CKWM 19-15-***	**CSM 19-15-*** **CSWM 19-15-***	ITC/PLTC PVC Yellow, 3x18, 12x22 AWG, 105 °C, 8.5 mm OD, Cable #RF50625-*M, 6-port, 2 signals per port, Flexlife	2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 19. BN	
	CKM 19-15-*/S90 **CKWM 19-15-*/S90**	**CSM 19-15-*/S90** **CSWM 19-15-*/S90**	AWM TPU Yellow, 3x18, 12x22 AWG, 90 °C, 8.4 mm OD, Cable #RF50818-*M, 6-port, 2 signals per port, Cut/Abrasion Immune		
CSM .. 	**CKM 19-19-*** **CKWM 19-19-***	**CSM 19-19-*** **CSWM 19-19-***	ITC/PLTC PVC Yellow, 3x18, 16x22 AWG, 105 °C, 10.0 mm OD, Cable #RF50620-*M, 8 port, 2 signals per port, Flexlife	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	**Male** 
	CKM 19-19-*/S90 **CKWM 19-19-*/S90**	**CSM 19-19-*/S90** **CSWM 19-19-*/S90**	AWM TPU Yellow, 3x18, 16x22 AWG, 90 °C, 10.0 mm OD, Cable #RF50682-*M, 8 port, 2 signals per port Cut/ Abrasion Immune		
CSWM .. 	**CKM 19-19-*/S101** **CKWM 19-19-*/S101**	**CSM 19-19-*/S101** **CSWM 19-19-*/S101**	AWM TPE Yellow, 3x18, 16x22 AWG, 105 °C, 11.2 mm OD, Cable #RF50916-*M, 8 port, 2 signals per port, Flexlife-20, High Flex - Over 20 million cycles		

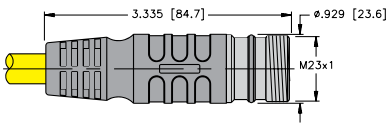
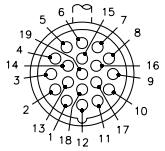
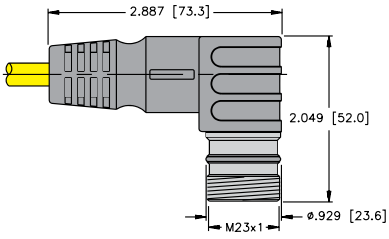
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKM.."; "CKMV.." indicates stainless steel coupling nut.

We reserve the right to make technical alterations without prior notice.

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

19-Pin Cordsets, DC Color Code, Standard Wiring

- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection
- 150 V, 9 A (18 AWG) & 2 A (22 AWG)

Connector Style	Male Part Number	Features	Pinout	
CSSM ..  **Non-rotating coupling nut**	**CSSM 19-11-*** **CSSWM 19-11-***	ITC/PLTC PVC Yellow, 3x18, 8x22 AWG, 105 °C, 8.5 mm OD, Cable #RF50624-*M, 4-port, 2 signals per port, Flexlife®	3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 12. GN/YE 14. BN/GN 15. WH 16. YE 19. BN	**Male** 
	CSSM 19-11-*/S90 **CSSWM 19-11-*/S90**	AWM TPU Yellow, 3x18, 8x22 AWG, 90 °C, 8.4 mm OD, Cable #RF50718-*M, 4-port, 2 signals per port, Cut/Abrasion Immune		
	CSSM 19-15-* **CSSWM 19-15-***	ITC/PLTC PVC Yellow, 3x18, 12x22 AWG, 105 °C, 8.5 mm OD, Cable #RF50625-*M, 6-port, 2 signals per port, Flexlife	2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 19. BN	
	CSSM 19-15-*/S90 **CSSWM 19-15-*/S90**	AWM TPU Yellow, 3x18, 12x22 AWG, 90 °C, 8.4 mm OD, Cable #RF50818-*M, 6-port, 2 signals per port, Cut/Abrasion Immune		
CSSWM ..  **Non-rotating coupling nut**	**CSSM 19-19-*** **CSSWM 19-19-***	ITC/PLTC PVC Yellow, 3x18, 16x22 AWG, 105 °C, 10.0 mm OD, Cable #RF50620-*M, 8 port, 2 signals per port, Flexlife	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	
	CSSM 19-19-*/S90 **CSSWM 19-19-*/S90**	AWM TPU Yellow, 3x18, 16x22 AWG, 90 °C, 10.0 mm OD, Cable #RF50682-*M, 8 port, 2 signals per port Cut/Abrasion Immune		
	CSSM 19-19-*/S101 **CSSWM 19-19-*/S101**	AWM TPE Yellow, 3x18, 16x22 AWG, 105 °C, 11.2 mm OD, Cable #RF50916-*M, 8 port, 2 signals per port, Flexlife-20, High Flex - Over 20 million cycles		

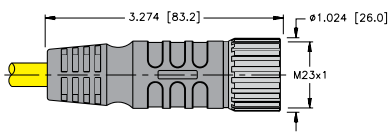
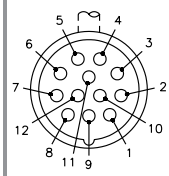
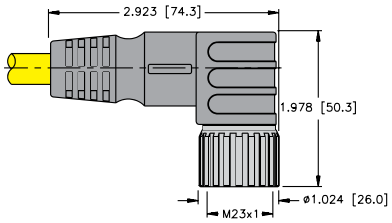
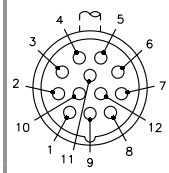
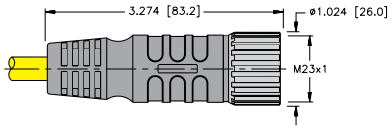
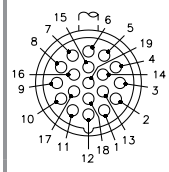
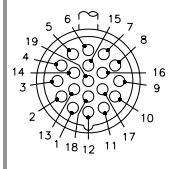
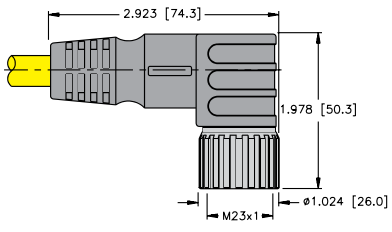
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CSSM..".

We reserve the right to make technical alterations without prior notice.

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

12 and 19-Pin Shielded Cordsets, DC Color Code, Standard Wiring

- **Shield to Coupling Nut**
- **For Eurofast® Junction Boxes and Multi-Conductor Applications**
- **IEC IP67 Protection**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CKMS .. 	**CKMS 12-7-204-*** **CKWMS 12-7-204-***	**CSMS 12-7-204-*** **CSWMS 12-7-204-***	ITC/PLTC PVC Yellow, 7x18 AWG, 105 °C, 300 V, 6 A, 8.4 mm OD, Cable #RF51204-*M 4-port, 1 signal per port, EMI/RFI Protection	1. BN 2. N/C 3. BU 4. WH 5. N/C 6. GN 7. YE 8. GY 9. N/C 10. N/C 11. N/C 12. GN/YE	**Female** 
CKWMS .. 	**CKMS 12-11-190-*** **CKWMS 12-11-190-***	**CSMS 12-11-190-*** **CSWMS 12-11-190-***	ITC/PLTC PVC Yellow, 11x18 AWG, 105 °C, 300 V, 6 A, 11.2 mm OD, Cable #RF51190-*M, 8-port, 1 signal per port, EMI/RFI Protection	1. BN 2. N/C 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	**Male** 
CSMS .. 	**CKMS 19-191-*** **CKWMS 19-191-***	**CSMS 19-191-*** **CSWMS 19-191-***	PLTC PVC Yellow, 3x18, 16x22 AWG, 105 °C, 150 V, 9 A (18 AWG) & 2 A (22 AWG), 11.2 mm OD, Cable #RF51191-*M, 8 port, 2 signals per port, EMI/RFI Protection	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	**Female**  **Male** 
CSWMS .. 					

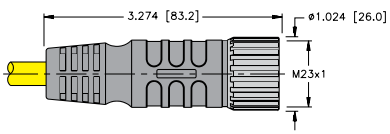
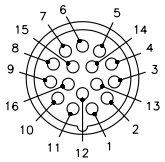
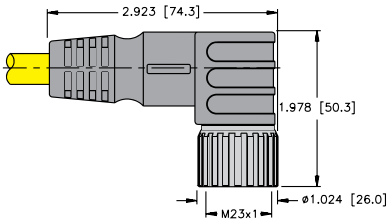
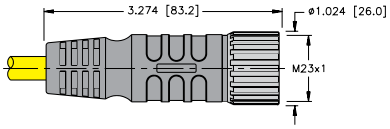
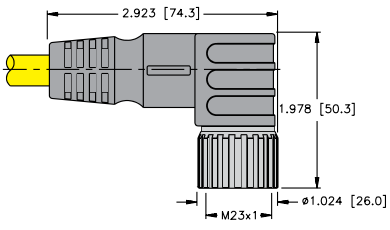
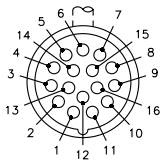
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKMS.."; "CKMSV.." indicates stainless steel coupling nut.

We reserve the right to make technical alterations without prior notice.

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

16-Pin Cordsets, DC Color Code, Isolated Power Supply

- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection
- 150 V, 6 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CKAM .. 	**CKAM 16-10-*** **CKAWM 16-10-***	**CSAM 16-10-*** **CSAWM 16-10-***	ITC/PLTC PVC Yellow, 10x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50607-*M, 4-port, dual supply, Flexlife®	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 11. BN/WH 13. BU/WH 15. GN/WH	Female 
CKAWM .. 	**CKAM 16-12-*** **CKAWM 16-12-***	**CSAM 16-12-*** **CSAWM 16-12-***	ITC/PLTC PVC Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50606-*M, 6-port, dual supply, Flexlife	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 13. BU/WH 15. GN/WH	
CSAM ..  CSAWM .. 	**CKAM 16-14-*** **CKAWM 16-14-***	**CSAM 16-14-*** **CSAWM 16-14-***	ITC/PLTC PVC Yellow, 14x18 AWG, 105 °C, 11.5 mm OD, Cable #RF50576-*M, 8-port, dual supply, Flexlife	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 12. BK 13. BU/WH 14. VT 15. GN/WH	Male 

* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKAM..."; "CKAMV.." indicates stainless steel coupling nut.

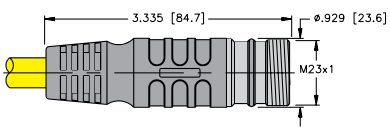
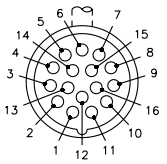
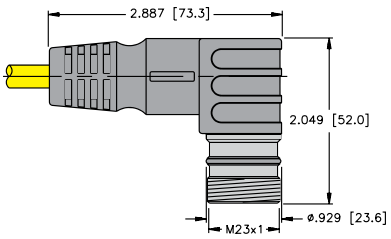
We reserve the right to make technical alterations without prior notice.

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

TURCK

16-Pin Connectors, DC Color Code, Isolated Power Supply

- **For Eurofast® Junction Boxes and Multi-Conductor Applications**
- **IEC IP67 Protection**
- **150 V, 6 A**

Connector Style	Male Part Number	Features	Pinout	
CSSAM ..  **Non-rotating coupling nut**	**CSSAM 16-10-*** **CSSAWM 16-10-***	ITC/PLTC PVC Yellow, 10x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50607-*M, 4-port, dual supply, Flexlife®	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 11. BN/WH 13. BU/WH 15. GN/WH	**Male** 
	CSSAM 16-12-* **CSSAWM 16-12-***	ITC/PLTC PVC Yellow, 12x18 AWG, 105 °C, 11.2 mm OD, Cable #RF50606-*M, 6-port, dual supply, Flexlife	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 13. BU/WH 15. GN/WH	
CSSAWM ..  **Non-rotating coupling nut**	**CSSAM 16-14-*** **CSSAWM 16-14-***	ITC/PLTC PVC Yellow, 14x18 AWG, 105 °C, 11.5 mm OD, Cable #RF50576-*M, 8-port, dual supply, Flexlife	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 12. BK 13. BU/WH 14. VT 15. GN/WH	

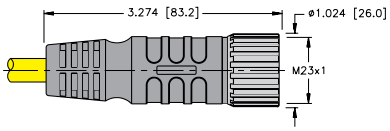
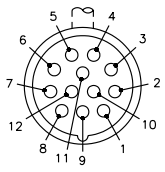
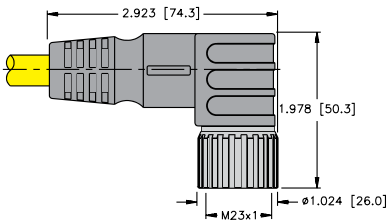
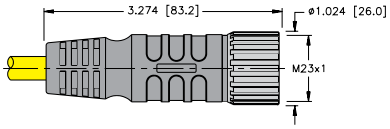
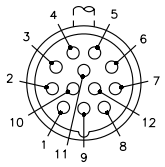
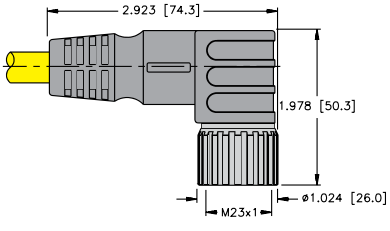
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CSSAM..".

We reserve the right to make technical alterations without prior notice.

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

12-Pin Cordsets, AC & DC Color Code

- For Eurofast®, Minifast®, and Microfast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection
- 300 V, 6 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	Pinout
CK*M .. 	**CKBM 12-7-*** **CKBWM 12-7-***	**CSBM 12-7-*** **CSBWM 12-7-***	ITC/PLTC PVC Black, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50715-*M, 4-port, AC Color Code, Standard Wiring with LEDs, Flexlife®	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female 
CK*WM .. 	**CKBM 12-11-*** **CKBWM 12-11-***	**CSBM 12-11-*** **CSBWM 12-11-***	ITC/PLTC PVC Black, 11x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50716-*M, 8-port, AC Color Code, Standard Wiring with LEDs, Flexlife	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 9. GN 10. RD 11. WH 12. BK	
	CKCM 12-9-* **CKCWM 12-9-***	**CSCM 12-9-*** **CSCWM 12-9-***	ITC/PLTC PVC Yellow, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50637-*M, 4-port 1 signal per port, DC Color Code, Flexlife	1. WH 2. GN 3. YE 4. GY 5. PK 6. RD 10. BU 11. BN 12. GN/YE	
CS*M .. 	**CKCM 12-9-*/S90** **CKCWM 12-9-*/S90**	**CSCM 12-9-*/S90** **CSCWM 12-9-*/S90**	AWM TPU Yellow, 7x18 AWG, 90 °C, 6.7 mm OD, Cable #RF50676-*M, 4-port, 1 signal per port, DC Color Code, Cut/ Abrasion Immune		
	CKCM 12-11-* **CKCWM 12-11-***	**CSCM 12-11-*** **CSCWM 12-11-***	ITC/PLTC PVC Yellow, 11x18 AWG, 105 °C, 10.5 mm OD, Cable #RF51088-*M, 8-port 1 Signal per port, DC Color Code, Flexlife	1. WH 2. GN 3. YE 4. GY 5. PK 6. RD 7. BK 8. VT 10. BU 11. BN 12. GN/YE	Male 
CS*WM .. 	**CKCM 12-11-*/S90** **CKCWM 12-11-*/S90**	**CSCM 12-11-*/S90** **CSCWM 12-11-*/S90**	AWM TPU Yellow, 11x18 AWG, 90 °C, 10 mm OD, Cable #RF50678-*M, 8-port, 1 signal per port, DC Color Code, Cut/ Abrasion Immune		

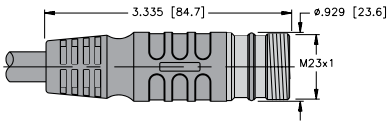
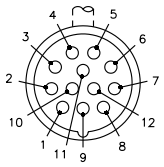
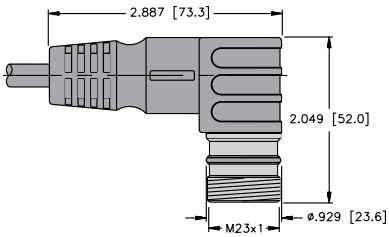
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKB(C)M.."; "CKB(C)MV.." indicates stainless steel coupling nut.

We reserve the right to make technical alterations without prior notice.

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

12-Pin Connectors, AC Color Code

- **For Eurofast®, Minifast®, and Microfast® Junction Boxes and Multi-Conductor Applications**
- **IEC IP67 Protection**
- **300 V, 6 A**

Connector Style	Male Part Number	Features	Pinout	
CSS*M ..  **Non-rotating coupling nut**	**CSSRM 12-6-*** **CSSRWM 12-6-***	ITC/PLTC PVC Black, 6x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50551-*M, 4-port, AC Color Code, Standard Wiring, Flexlife®	1. OG 2. BU 4. BK 5. WH 6. RD 7. GN	**Male** 
	CSSRM 12-8-* **CSSRWM 12-8-***	ITC/PLTC PVC Black, 8x18 AWG, 105 °C, 8.9 mm OD, Cable #RF50552-*M, 6-port, AC Color Code, Standard Wiring, Flexlife	1. OG 2. BU 3. YE 4. BK 5. WH 6. RD 7. GN 8. BN	
	CSSRM 12-10-* **CSSRWM 12-10-***	ITC/PLTC PVC Black, 10x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50553-*M, 8-port, AC Color Code, Standard Wiring, Flexlife	1. VT 2. BU 3. GY 4. BK 5. WH 6. RD 7. GN 8. YE 9. OG 10. BN	
CSS*WM ..  **Non-rotating coupling nut**	**CSSBM 12-7-*** **CSSBWM 12-7-***	ITC/PLTC PVC Black, 7x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50715-*M, 4-port, AC Color Code, Standard Wiring with LEDs, Flexlife	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	
	CSSBM 12-11-* **CSSBWM 12-11-***	ITC/PLTC PVC Black, 11x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50716-*M, 8-port, AC Color Code, Standard Wiring with LEDs, Flexlife	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 9. GN 10. RD 11. WH 12. BK	

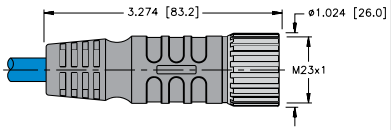
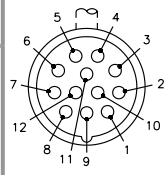
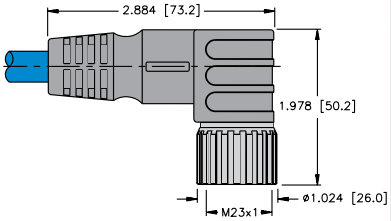
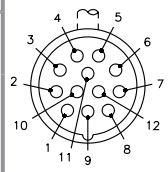
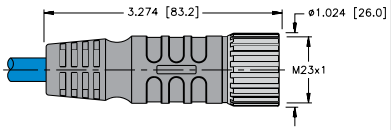
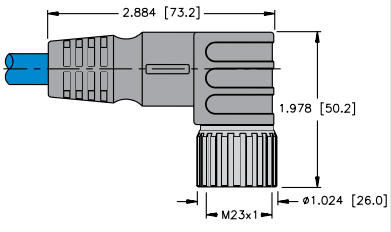
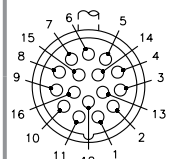
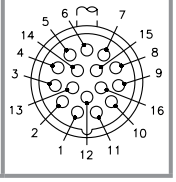
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CSSR(B)M..".

We reserve the right to make technical alterations without prior notice.

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

12 and 16-Pin Cordsets, AC and NAMUR Color Codes

- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CK*M .. 	**CKRM 12-6-* CKRWM 12-6-***	**CSRM 12-6-* CSRWM 12-6-***	ITC/PLTC PVC Black, 6x18 AWG, 105 °C, 8.4 mm OD, Cable #RF50551-*M, 4-port, AC Color Code, Standard Wiring, Flexlife®	1. OG 5. WH 2. BU 6. RD 4. BK 7. GN	Female 
	CKRM 12-8-* CKRWM 12-8-*	**CSRM 12-8-* CSRWM 12-8-***	ITC/PLTC PVC Black, 8x18 AWG, 105 °C, 8.9 mm OD, Cable #RF50552-*M, 6-port, AC Color Code, Standard Wiring, Flexlife	1. OG 5. WH 2. BU 6. RD 3. YE 7. GN 4. BK 8. BN	
CK*WM .. 	**CKRM 12-10-* CKRWM 12-10-***	**CSRM 12-10-* CSRWM 12-10-***	ITC/PLTC PVC Black, 10x18 AWG, 105 °C, 10.8 mm OD, Cable #RF50553-*M, 8-port, AC Color Code, Standard Wiring, Flexlife	1. VT 6. RD 2. BU 7. GN 3. GY 8. YE 4. BK 9. OG 5. WH 10. BN	Male 
CS*M .. 	**CKNM 12-9-* CKNWM 12-9-***	**CSNM 12-9-* CSNWM 12-9-***	ITC/PLTC PVC Blue, 9x22 AWG, 105 °C, 300 V, 3 A, 6.9 mm OD, Cable #RF50741-*M, 4 port, Namur, 1 isolated circuit per port or 2 circuits per port with common positive, Flexlife	1. BN 6. OG 2. WH 7. BU 3. BK 8. YE 4. GN 9. VT 5. RD	
CS*WM .. 	**CKNM 16-16-* CKNWM 16-16-***	**CSNM 16-16-* CSNWM 16-16-***	ITC/PLTC PVC Blue, 16x22 AWG, 105 °C, 300 V, 3 A, 8.3 mm OD, Cable #RF50744-*M, 4 port, 2 isolated circuits per port, Flexlife	1. WH 9. VT 2. BK 10. GY 3. GN 11. PK 4. RD 12. TN 5. OG 13. WH/BK 6. BU 14. WH/GN 7. BN 15. WH/RD 8. YE 16. WH/BU	Female  Male 

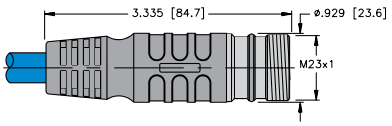
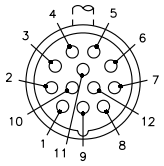
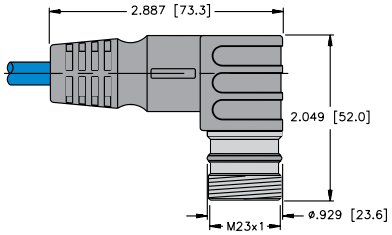
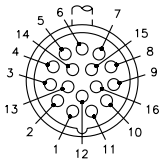
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CKR(N)M.."; "CKR(N)MV.." indicates stainless steel coupling nut.

We reserve the right to make technical alterations without prior notice.

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

12 and 16-Pin Connectors, NAMUR Color Code

- **For Eurofast® Junction Boxes and Multi-Conductor Applications**
- **IEC IP67 Protection**

Connector Style	Male Part Number	Features	Pinout	
CSSNM ..  **Non-rotating coupling nut**	**CSSNM 12-9-*** **CSSNWM 12-9-***	ITC/PLTC PVC Blue, 9x22 AWG, 105 °C, 300 V, 3 A, 6.9 mm OD, Cable #RF50741-*M, 4 port, Namur, 1 isolated circuit per port or 2 circuits per port with common positive, Flexlife®	1. BN 2. WH 3. BK 4. GN 5. RD 6. OG 7. BU 8. YE 9. VT	**Male** 
CSSNWM ..  **Non-rotating coupling nut**	**CSSNM 16-16-*** **CSSNWM 16-16-***	ITC/PLTC PVC Blue, 16x22 AWG, 105 °C, 300 V, 3 A, 8.3 mm OD, Cable #RF50744-*M, 4 port, 2 isolated circuits per port, Flexlife	1. WH 2. BK 3. GN 4. RD 5. OG 6. BU 7. BN 8. YE 9. VT 10. GY 11. PK 12. TN 13. WH/BK 14. WH/GN 15. WH/RD 16. WH/BU	**Male** 

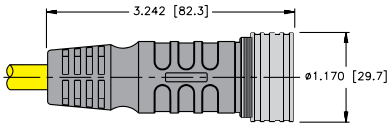
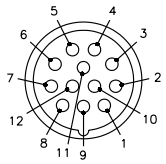
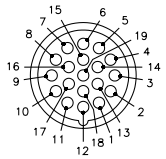
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "CSSNM..".

We reserve the right to make technical alterations without prior notice.

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

12 and 19-Pin Push-Pull Cordsets, DC Color Code, Standard Wiring

- Quick Push-Pull Connector
- For Eurofast® Junction Boxes and Multi-Conductor Applications
- IEC IP67 Protection

Connector Style	Female Part Number	Features	Pinout	
CKMH .. 	**CKMH 12-11-***	ITC/PLTC PVC Yellow, 11x18 AWG, 105 °C, 300 V, 6 A, 10.5 mm OD, Cable #RF51088-*M, 8 port, 1 signal per port, Flexlife®	1. BN 2. N/C 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	Female 
	CKMH 12-11-*/S90	AWM TPU Yellow, 11x18 AWG, 90 °C, 10 mm OD, Cable #RF50678-*M, 8 port, 1 signal per port, Cut/Abrasion Immune		
	CKMH 19-19-*	ITC/PLTC PVC Yellow, 3x18, 16x22 AWG, 105 °C, 10.0 mm OD, Cable #RF50620-*M, 8 port, 2 signals per port, Flexlife	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	Female 
	CKMH 19-19-*/S90	AWM TPU Yellow, 3x18, 16x22 AWG, 90 °C, 10.0 mm OD, Cable #RF50682-*M, 8 port, 2 signals per port Cut/Abrasion Immune		

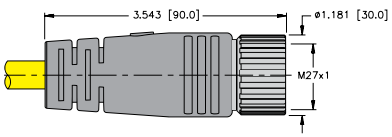
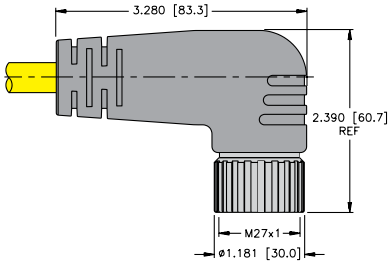
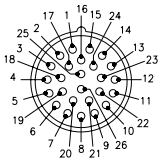
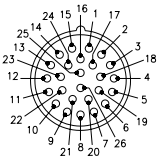
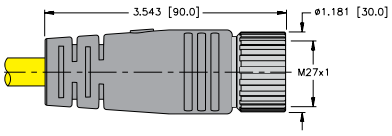
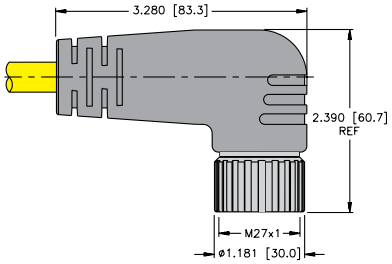
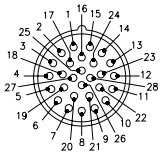
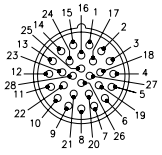
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.."CKMH..".

We reserve the right to make technical alterations without prior notice.

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

26 and 28-Pin Cordsets

- **For Multi-Conductor Applications**
- **IEC IP67 Protection**
- **150 V, 3 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
DKM ..  **DKWM ..**  	**DKM 26-631-*** **DKWM 26-631-***	**DSM 26-631-*** **DSWM 26-631-***	ITC/PLTC PVC Yellow, 25x22 AWG, 1x22 AWG drain, 105 °C, 10.0 mm OD, Cable #RF50631-*M, 25-wire DC applications, Flexlife®	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. N/C	**Female**  **Male** 
DSM ..  **DSWM ..**  	**DKM 28-061-*** **DKWM 28-061-***	**DSM 28-061-*** **DSWM 28-061-***	ITC/PLTC PVC Yellow, 27x22 AWG, 1x22 AWG drain, 105 °C, 10.5 mm OD,Cable #RF51061-*M, 27-wire DC applications, Flexlife	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. GY 27. OG 28. N/C	**Female**  **Male** 

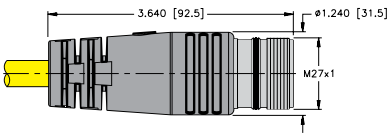
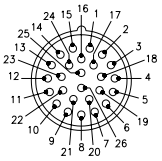
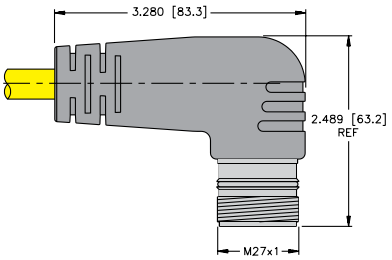
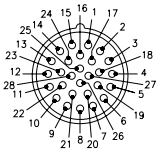
* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.. "DKM.."/"DKWM..".

We reserve the right to make technical alterations without prior notice.

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

26 and 28-Pin Cordsets

- For Multi-Conductor Applications
- IEC IP67 Protection
- 150 V, 5 A

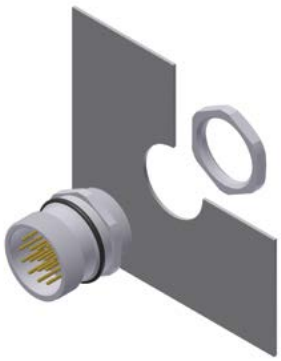
Connector Style	Male Part Number	Features	Pinout	
DSSM ..  **Non-rotating coupling nut**	**DSSM 26-631-*** **DSSWM 26-631-***	ITC/PLTC PVC Yellow, 25x22 AWG, 1x22 AWG drain, 105 °C, 10.0 mm OD, Cable #RF50631-*M, 25-wire DC applications, Flexlife®	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. N/C	**Male** 
DSSWM ..  **Non-rotating coupling nut**	**DSSM 28-061-*** **DSSWM 28-061-***	ITC/PLTC PVC Yellow, 27x22 AWG, 1x22 AWG drain, 105 °C, 10.5 mm OD, Cable #RF51061-*M, 27-wire DC applications, Flexlife	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. GY 27. OG 28. N/C	**Male** 

* Length in meters.
Standard cable lengths are 5 and 10 meters. Consult factory for other lengths.
Standard coupling material is nickel plated brass.. "DSSM../"DSSWM..".

We reserve the right to make technical alterations without prior notice.

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

Receptacle Selection Guide

Mounting Style	Image	Panel Thread Types	Page
Front Mount		**M23**	**H20**
		M27	**H30**
Rear Mount		**M23**	**H25**

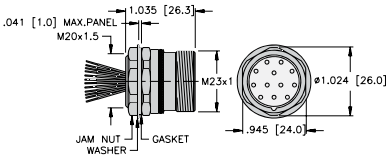
We reserve the right to make technical alterations without prior notice.

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

12-Pin Receptacles, Front Mount

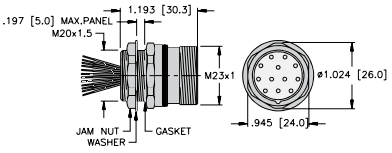
- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 300 V, 6 A

CS(K)F..



Typical panel cutout is 20.4 x 19 x 20.4 mm

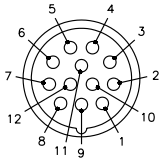
CS(K)FL..



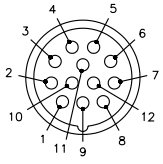
Typical panel cutout is 20.4 x 19 x 20.4 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)F.. / CS(K)FL..	CKF 12-7-*	CSF 12-7-*	Nickel plated brass, 7x18 AWG, 105 °C, 4-port, 1 signal per port	1. BN 3. BU 4. WH 6. GN	7. YE 8. GY 12. GN/YE
	CKF 12-9-*	CKF 12-9-*	Nickel plated brass, 9x18 AWG, 105 °C, 6-port, 1 signal per port	1. BN 3. BU 4. WH 6. GN 7. YE	8. GY 9. PK 10. RD 12. GN/YE
	CKF 12-11-*	CSF 12-11-*	Nickel plated brass, 11x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 3. BU 4. WH 5. GN 6. YE 7. GY	8. PK 9. RD 10. BK 11. VT 12. GN/YE
	CKF 12-12-*	CSF 12-12-*	Nickel plated brass, 12x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 2. OG 3. BU 4. WH 5. GN 6. YE	7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE
	CKF 12-12-*/S817	CSF 12-12-*/S817	Nickel plated brass, 12x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 2. BU 3. WH 4. GN/YE 5. OG 6. YE	7. GY 8. PK 9. RD 10. BN/WH 11. BU/WH 12. GN/WH

Female



Male



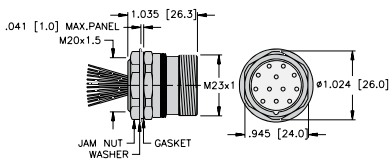
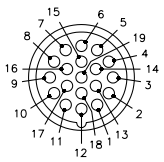
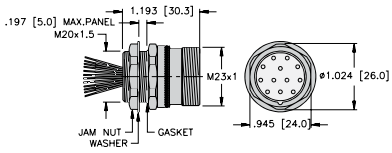
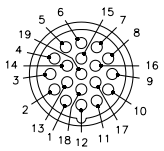
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
"CSFL .." indicates long mounting threads; "CSFLV .." indicates stainless steel housing with long threads.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

19-Pin Receptacles, Front Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 150 V, 9 A (pins 6, 12, 19), all others 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)F..  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKF 19-11-***	**CSF 19-11-***	Nickel plated brass, 3x18, 8x22 AWG, 105 °C, 4-port, 2 signals per port	3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 12. GN/YE 14. BN/GN 15. WH 16. YE 19. BN	**Female** 
	CKF 19-15-*	**CSF 19-15-***	Nickel plated brass, 3x18, 12x22 AWG, 105 °C, 6-port, 2 signals per port	2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 19. BN	
CS(K)FL..  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKF 19-19-***	**CSF 19-19-***	Nickel plated brass, 3x18, 16x22 AWG, 105 °C, 8-port, 2 signals per port	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	**Male** 

* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
"CSFL .." indicates long mounting threads; "CSFLV .." indicates stainless steel housing with long threads.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

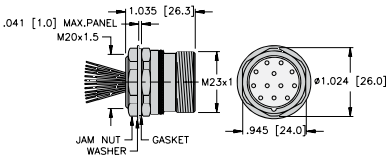
We reserve the right to make technical alterations without prior notice.

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

12 and 16-Pin Receptacles, Front Mount

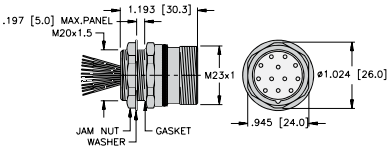
- For use with Junction Box Home Run Cables
- IEC IP67 Protection

CK(A)(B)F..
CS(A)(B)F..

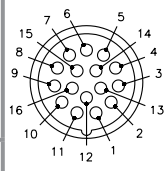
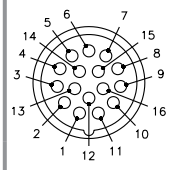
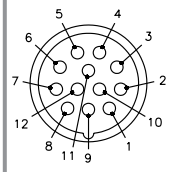
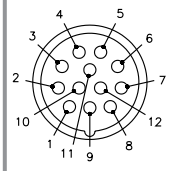


Typical panel cutout is 20.4 x 19 x 20.4 mm

CK(A)(B)FL..
CS(A)(B)FL..



Typical panel cutout is 20.4 x 19 x 20.4 mm

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CK(A)(B)F.. CS(A)(B)F..	CKAF 16-10-*	CSAF 16-10-*	Nickel plated brass, 10x18 AWG, 105 °C, 150 V, 6 A, 4-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 11. BN/WH 13. BU/WH 15. GN/WH	Female 
	CKAF 16-12-*	CSAF 16-12-*	Nickel plated brass, 12x18 AWG, 105 °C, 150 V, 6 A, 6-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 13. BU/WH 15. GN/WH	
	CKAF 16-14-*	CSAF 16-14-*	Nickel plated brass, 14x18 AWG, 105 °C, 150 V, 6 A, 8-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 12. BK 13. BU/WH 14. VT 15. GN/WH	Male 
CK(A)(B)FL.. CS(A)(B)FL..	CKBF 12-7-*	CSBF 12-7-*	Nickel plated brass, 7x18 AWG, 105 °C, 300 V, 6 A, 4-port, with LEDs	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female 
	CKBF 12-11-*	CSBF 12-11-*	Nickel plated brass, 11x18 AWG, 105 °C, 300 V, 6 A, 8-port, with LEDs	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 9. GN 10. RD 11. WH 12. BK	Male 

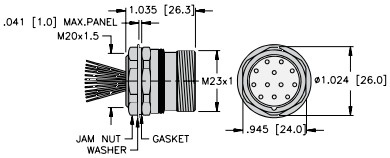
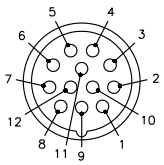
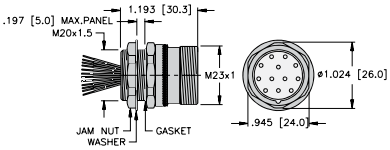
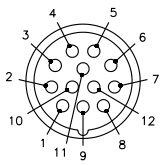
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
"CSA(B)FL .." indicates long mounting threads; "CSA(B)FLV .." indicates stainless steel housing with long threads.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12-Pin Receptacles, Front Mount

- **For use with Junction Box Home Run Cables**
- **IEC IP67 Protection**
- **300 V, 6 A**

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CK(C)(N)F.. **CS(C)(N)F..**  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKCF 12-7-***	**CSCF 12-7-***	Nickel plated brass, 7x18 AWG, 105 °C, 4-port, 1 signal per port, 4MB12Z-4-*	1. WH 2. GN 3. YE 4. GY 10. BU 11. BN 12. GN/YE	**Female** 
	CKCF 12-11-*	**CSCF 12-11-***	Nickel plated brass, 11x18 AWG, 105 °C, 8-port, 1 signal per port, 8MB12Z-4-*	1. WH 2. GN 3. YE 4. GY 5. PK 6. RD 7. BK 8. VT 10. BU 11. BN 12. GN/YE	
CK(C)(N)FL.. **CS(C)(N)FL..**  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKNF 12-9-***	**CSNF 12-9-***	Nickel plated brass, 9x18 AWG, 105 °C, 4-port, 1 isolated circuit per port or 2 circuits per port with common positive	1. BN 2. WH 3. BK 4. GN 5. RD 6. OG 7. BU 8. YE 9. VT	**Male** 

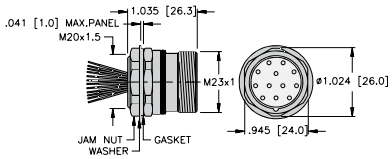
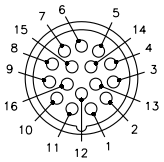
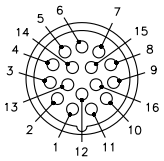
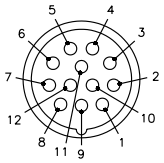
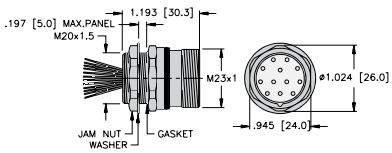
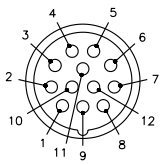
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
"CSC(N or R)FL .." indicates long mounting threads; "CSC(N or R)FLV .." indicates stainless steel housing with long threads.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12 and 16-Pin Receptacles, Front Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CK(C)(N)(R)F.. **CS(C)(N)(R)F..**  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKNF 16-16-***	**CSNF 16-16-***	Nickel plated brass, 16x22 AWG, 105 °C, 300 V, 3 A, 4-port, 2 isolated circuits per port	1. WH 2. BK 3. GN 4. RD 5. OG 6. BU 7. BN 8. YE 9. VT 10. GY 11. PK 12. Tn 13. WH/BK 14. WH/GN 15. WH/RD 16. WH/BU	**Female**  **Male** 
	CKRF 12-6-*	**CSRF 12-6-***	Nickel plated brass, 6x18 AWG, 105 °C, 300 V, 6 A, 4-port, No LEDs	1. OG 2. BU 4. BK 5. WH 6. RD 7. GN	**Female** 
	CKRF 12-8-*	**CSRF 12-8-***	Nickel plated brass, 8x18 AWG, 105 °C, 300 V, 6 A, 6-port, No LEDs	1. OG 2. BU 3. YE 4. BK 5. WH 6. RD 7. GN 8. BN	
CK(C)(N)(R)FL.. **CS(C)(N)(R)FL..**  **Typical panel cutout is 20.4 x 19 x 20.4 mm**	**CKRF 12-10-***	**CSRF 12-10-***	Nickel plated brass, 10x18 AWG, 105 °C, 300 V, 6 A, 8-port, No LEDs	1. VT 2. BU 3. GY 4. BK 5. WH 6. RD 7. GN 8. YE 9. OG 10. BN	**Male** 

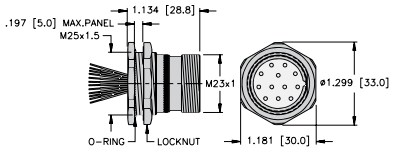
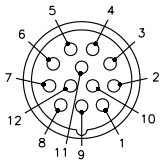
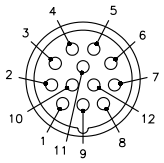
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
"CSC(N or R)FL .." indicates long mounting threads; "CSC(N or R)FLV .." indicates stainless steel housing with long threads.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12-Pin Receptacles, Rear Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 300 V, 6 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)FD..  Typical panel cutout is 25.4 x 24.3 x 25.4 mm	**CKFD 12-7-***	**CSFD 12-7-***	Nickel plated brass, 7x18 AWG, 105 °C, 4-port, 1 signal per port	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 12. GN/YE	Female  Male 
	CKFD 12-9-*	**CSFD 12-9-***	Nickel plated brass, 9x18 AWG, 105 °C, 6-port, 1 signal per port	1. BN 3. BU 4. WH 6. GN 7. YE 8. GY 9. PK 10. RD 12. GN/YE	
	CKFD 12-11-*	**CSFD 12-11-***	Nickel plated brass, 11x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	
	CKFD 12-12-*	**CSFD 12-12-***	Nickel plated brass, 12x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 2. OG 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	
	CKFD 12-12-*/S817	**CSFD 12-12-*/S817**	Nickel plated brass, 12x18 AWG, 105 °C, 8-port, 1 signal per port	1. BN 2. BU 3. WH 4. GN/YE 5. OG 6. YE 7. GY 8. PK 9. RD 10. BN/WH 11. BU/WH 12. GN/WH	

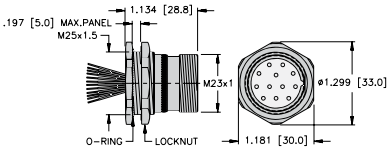
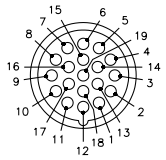
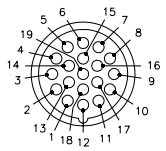
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

19-Pin Receptacles, Rear Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 150 V, 9 A (pins 6, 12, 19), All others 2 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)FD..  Typical panel cutout is 25.4 x 24.3 x 25.4 mm	CKFD 19-11-*	CSFD 19-11-*	Nickel plated brass, 3x18, 8x22 AWG, 105 °C, 4-port, 2 signals per port	3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 12. GN/YE 14. BN/GN 15. WH 16. YE 19. BN	Female 
	CKFD 19-15-*	CSFD 19-15-*	Nickel plated brass, 3x18, 12x22 AWG, 105 °C, 6-port, 2 signals per port	2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 19. BN	
	CKFD 19-19-*	CSFD 19-19-*	Nickel plated brass, 3x18, 16x22 AWG, 105 °C, 8-port, 2 signals per port	1. VT 2. RD 3. GY 4. RD/BU 5. GN 6. BU 7. GY/PK 8. WH/GN 9. WH/YE 10. WH/GY 11. BK 12. GN/YE 13. YE/BN 14. BN/GN 15. WH 16. YE 17. PK 18. GY/BN 19. BN	Male 

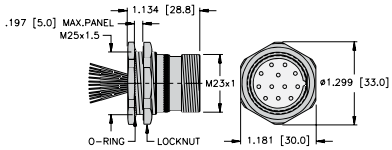
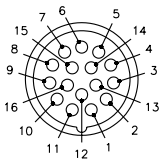
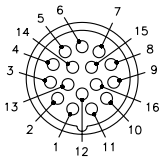
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

16-Pin Receptacles, Rear Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 150 V, 6 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)FD..  Typical panel cutout is 25.4 x 24.3 x 25.4 mm	CKAFD 16-10-*	CSAFD 16-10-*	Nickel plated brass, 10x18 AWG, 105 °C, 4-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 11. BN/WH 13. BU/WH 15. GN/WH	Female 
	CKAFD 16-12-*	CSAFD 16-12-*	Nickel plated brass 12x18 AWG, 105 °C, 6-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 13. BU/WH 15. GN/WH	
	CKAFD 16-14-*	CSAFD 16-14-*	Nickel plated brass, 14x18 AWG, 105 °C, 8-port, Isolated Power Supply	1. BN 3. BU 4. WH 5. GN/YE 6. OG 7. YE 8. GY 9. PK 10. RD 11. BN/WH 12. BK 13. BU/WH 14. VT 15. GN/WH	Male 

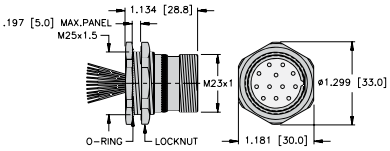
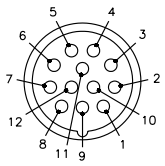
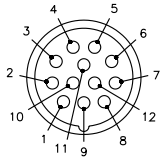
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12-Pin Receptacles, Rear Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 300 V, 6 A

Connector Style	Female Part Number	Male Part Number	Features	Pinout
CS(K)FD..  Typical panel cutout is 25.4 x 24.3 x 25.4 mm	**CKBFD 12-7-***	**CSBFD 12-7-***	Nickel plated brass, 7x18 AWG, 105 °C, 4-port, with LEDs	1. WH/BK 2. BK 3. WH 4. RD 5. OG 6. BU 7. GN	Female  Male 
	CKBFD 12-11-*	**CSBFD 12-11-***	Nickel plated brass, 11x18 AWG, 105 °C, 8-port, with LEDs	1. OG 2. BU 3. WH/BK 4. RD/BK 5. GN/BK 6. OG/BK 7. BU/BK 9. GN 10. RD 11. WH 12. BK	
	CKCFD 12-7-*	**CSCFD 12-7-***	Nickel plated brass, 7x18 AWG, 105 °C, 4-port, 1 signal per port, 4MB12Z-4-*	1. WH 2. GN 3. YE 4. GY 10. BU 11. BN 12. GN/YE	
	CKCFD 12-9-*	**CSCFD 12-9-***	Nickel plated brass, 9x18 AWG, 105 °C, 4-port, 1 signal per port, 6MB12Z-4-*	1. WH 2. GN 3. YE 4. GY 5. PK 6. RD 10. BU 11. BN 12. GN/YE	
	CKCFD 12-11-*	**CSCFD 12-11-***	Nickel plated brass, 11x18 AWG, 105 °C, 8-port, 1 signal per port, 8MB12Z-4-*	1. WH 2. GN 3. YE 4. GY 5. PK 6. RD 7. BK 8. VT 10. BU 11. BN 12. GN/YE	

* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

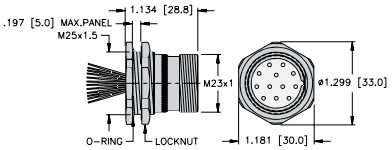
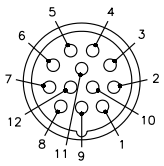
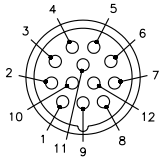
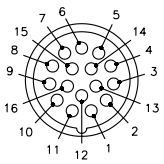
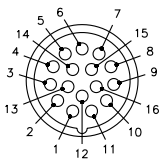
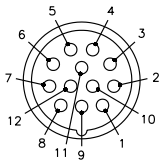
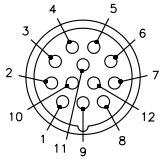
We reserve the right to make technical alterations without prior notice.

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

12 and 16-Pin Receptacles, Rear Mount

- **For use with Junction Box Home Run Cables**
- **IEC IP67 Protection**

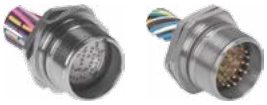
We reserve the right to make technical alterations without prior notice.

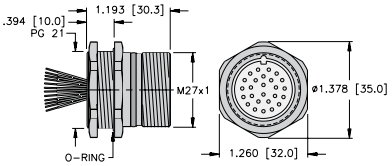
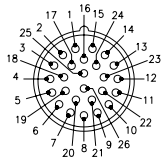
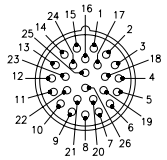
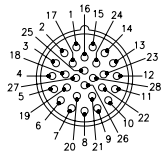
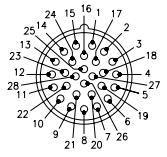
Connector Style	Female Part Number	Male Part Number	Features	Pinout	
CS(K)FD..  **Typical panel cutout is 25.4 x 24.3 x 25.4 mm**	**CKNFD 12-9-***	**CSNFD 12-9-***	Nickel plated brass, 9x22 AWG, 105 °C, 300 V, 6 A, 4-port, 1 Isolated Circuits Per Port, 2 Circuits Per Port, with Common Positive	1. BN 2. WH 3. BK 4. GN 5. RD 6. OG 7. BU 8. YE 9. VT	**Female**  **Male** 
	CKNFD 16-16-*	**CSNFD 16-16-***	Nickel plated brass, 16x22 AWG, 105 °C, 300 V, 3 A, 4-port, 2 Isolated Circuits Per Port	1. WH 2. BK 3. GN 4. RD 5. OG 6. BU 7. BN 8. YE 9. VT 10. GY 11. PK 12. Tn 13. WH/BK 14. WH/GN 15. WH/RD 16. WH/BU	**Female**  **Male** 
	CKRFD 12-6-*	**CSRFD 12-6-***	Nickel plated brass, 6x18 AWG, 105 °C, 300 V, 6 A, 4-port, No LEDs	1. OG 2. BU 4. BK 5. WH 6. RD 7. GN	**Female** 
	CKRFD 12-8-*	**CSRFD 12-8-***	Nickel plated brass, 8x18 AWG, 105 °C, 300 V, 6 A, 6-port, No LEDs	1. OG 5. WH 2. BU 6. RD 3. YE 7. GN 4. BK 8. BN	
	CKRFD 12-10-*	**CSRFD 12-10-***	Nickel plated brass, 10x18 AWG, 105 °C, 300 V, 6 A, 8-port, No LEDs	1. VT 2. BU 3. GY 4. BK 5. WH 6. RD 7. GN 8. YE 9. OG 10. BN	**Male** 

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

26 and 28-Pin Receptacles, Front Mount

- For use with Junction Box Home Run Cables
- IEC IP67 Protection
- 150 V, 3 A



Connector Style	Female Part Number	Male Part Number	Features	Pinout	
DS(K)F..  Typical panel cutout is 28.3 mm	DKF 26-25-*	DSF 26-25-*	Nickel-plated brass, 25x22 AWG, 105 °C, 25-wire applications	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. N/C	Female  Male 
	DKF 28-27-*	DSF 28-27-*	Nickel-plated brass, 27x22 AWG, 105 °C, 27-wire applications	1. BN 2. WH/GY 3. BU/GY 4. BN/GY 5. BK/YE 6. WH/YE 7. BU/YE 8. BN/YE 9. BK/RD 10. WH/RD 11. BU/RD 12. BN/RD 13. BK 14. WH 15. BU 16. BK/GY 17. BN/OG 18. WH/OG 19. BK/OG 20. BK/GN 21. WH/GN 22. BU/GN 23. BN/GN 24. BU/OG 25. GN/YE 26. GY 27. OG 28. N/C	Female  Male 

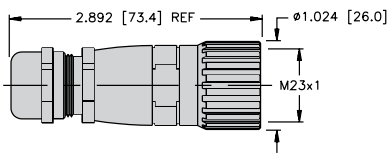
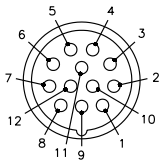
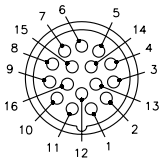
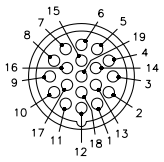
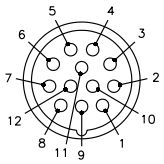
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
To specify PVC jacketed cable, add "/S717" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

12, 16 and 19-Pin Field Wireable In-line Connectors

- **For use with Custom Wiring & Junction Boxes**
- **Convert Hard Wiring into Quick Disconnect**
- **IEC IP65 Protection**

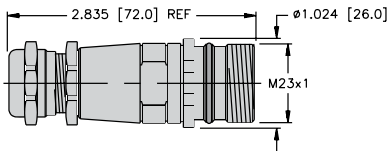
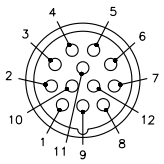
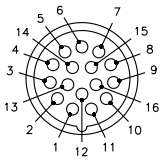
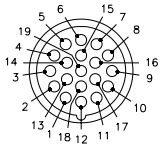
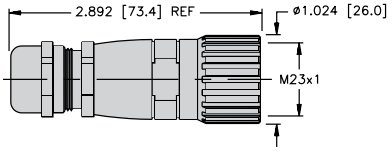
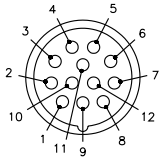
Connector Style	Female Part Number	Features	Pinout
CK .. 	**CK 12-0**	Nickel plated brass, PG 11 cable gland, accepts 4-10 mm cable diameter, accepts up to 12x18 AWG conductors, 125 °C, 300 V, 8.0 A, field wireable 12-pin in-line connector, for use with Minifast®, Eurofast® (single input per port) and Microfast® junctions boxes	Female 
	CK 16-0	Nickel plated brass, PG 13.5 cable gland, accepts 5-12 mm cable diameter, accepts up to 16x18 AWG conductors, 125 °C, 150 V, 8.0 A, field wireable 16-pin in-line connector, for use with Eurofast (isolated power supply) junctions boxes	Female 
	CK 19-0	Nickel plated brass, PG 13.5 cable gland, accepts 5-12 mm cable diameter, accepts up to 19x18 AWG conductors, 125 °C, 150 V, 8.0 A, field wireable 19-pin in-line connector, for use with Eurofast (two Signals per port) junctions boxes	Female 
	CK 125-0	Nickel plated brass, IAC, accepts 3-10 mm cable diameter accepts up to 12x18 AWG conductors, 125 °C, 150 V, 8.0 A, field wireable 12-pin in-line connector	Female 

We reserve the right to make technical alterations without prior notice.

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

12, 16 and 19-Pin Field Wireable In-line Connectors

- For use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP65 Protection

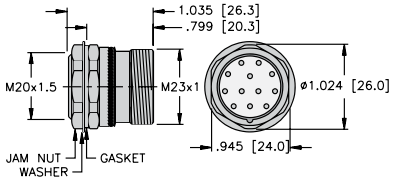
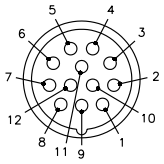
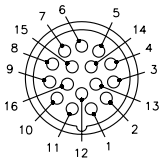
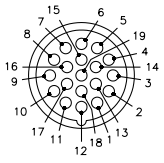
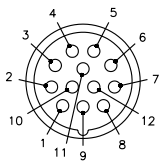
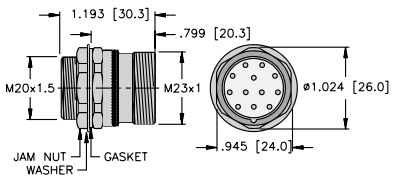
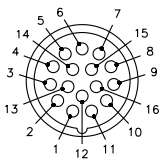
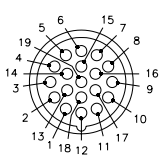
Connector Style	Male Part Number	Features	Pinout
CSS ..  Non-rotating coupling nut	**CSS 12-0**	Nickel plated brass, PG 13.5 cable gland, accepts 5-12 mm cable diameter, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin in-line connector, for use with Minifast®, Eurofast® (single input per port) and Microfast® junctions boxes	Male 
	CS 12-0	Nickel plated brass, PG 11 cable gland, accepts 4-10 mm cable diameter, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin in-line connector, for use with Minifast, Eurofast (single input per port) and Microfast junctions boxes	
	CSS 16-0 **CS 16-0**	Nickel plated brass, PG 13.5 cable gland, accepts 5-12 mm cable diameter, accepts up to 16x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 16-pin in-line connector, for use with Eurofast (isolated power supply) junctions boxes	Male 
	CSS 19-0 **CS 19-0**	Nickel plated brass, PG 13.5 cable gland, accepts 5-12 mm cable diameter, accepts up to 19x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 19-pin in-line connector, for use with Eurofast (two signals per port) junctions boxes	Male 
CS ..  	**CSS 125-0** **CS 125-0**	Nickel plated brass, IAC, accepts 3-10 mm cable diameter, accepts up to 12x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 12-pin in-line connector	Male 

We reserve the right to make technical alterations without prior notice.

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

12, 16 and 19-Pin Field Wireable, Front Mount

- For use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP65 Protection

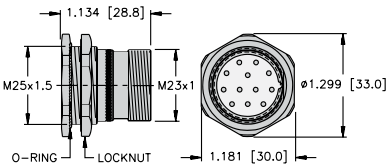
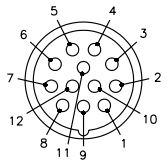
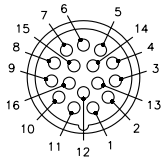
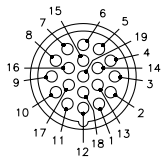
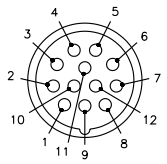
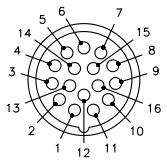
Connector Style	Part Number	Features	Pinout
CK(S)F .. 	**CKF 12-0** **CKFL 12-0**	Nickel plated brass, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin receptacle, for use with Minifast®, Eurofast® (single input per port) and Microfast® junctions boxes	Female 
	CKF 16-0 **CKFL 16-0**	Nickel plated brass, accepts up to 16x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 16-pin receptacle, for use with Eurofast (isolated power supply) junctions boxes	Female 
	CKF 19-0 **CKFL 19-0**	Nickel plated brass, accepts up to 19x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 19-pin receptacle, for use with Eurofast (two signals per port) junctions boxes	Female 
	CSF 12-0 **CSFL 12-0**	Nickel plated brass, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin receptacle, for use with Minifast, Eurofast (single input per port) and Microfast junctions boxes	Male 
CK(S)FL.. 	**CSF 16-0** **CSFL 16-0**	Nickel plated brass, accepts up to 16x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 16-pin receptacle, for use with Eurofast (isolated power supply) junctions boxes	Male 
	CSF 19-0 **CSFL 19-0**	Nickel plated brass, accepts up to 19x18 AWG conductor, 125 °C,150 V, 8.0 A, field wireable 19-pin receptacle, for use with Eurofast (two signals per port) junctions boxes	Male 

We reserve the right to make technical alterations without prior notice.

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

12, 16 and 19-Pin Field Wireable Receptacles, Rear Mount

- **Convert Hard Wiring into Quick Disconnect**
- **For use with Custom Wiring**
- **IEC IP65 Protection**

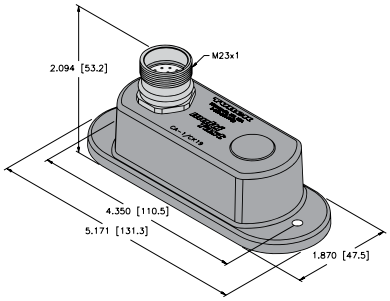
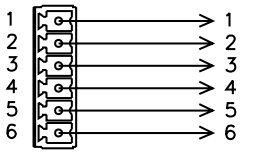
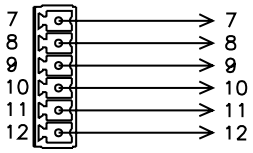
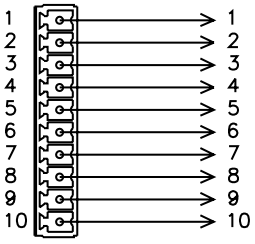
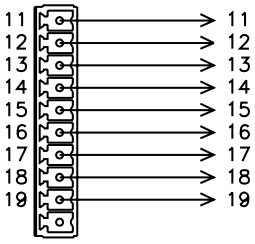
Connector Style	Part Number	Features	Pinout
CK(S)FD .. 	**CKFD 12-0**	Nickel plated brass, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin receptacle, for use with field wiring and custom panel wiring	**Female** 
	CKFD 16-0	Nickel plated brass, accepts up to 16x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 16-pin receptacle, for use with field wiring and custom panel wiring	**Female** 
	CKFD 19-0	Nickel plated brass, accepts up to 19x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 19-pin receptacle, for use with field wiring and custom panel wiring	**Female** 
	CSFD 12-0	Nickel plated brass, accepts up to 12x18 AWG conductor, 125 °C, 300 V, 8.0 A, field wireable 12-pin receptacle, for use with field wiring and custom panel wiring	**Male** 
	CSFD 16-0	Nickel plated brass, accepts up to 16x18 AWG conductor, 125 °C, 150 V, 8.0 A, field wireable 16-pin receptacle, for use with field wiring and custom panel wiring	**Male** 

We reserve the right to make technical alterations without prior notice.

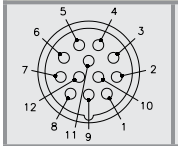
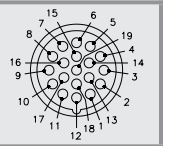
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conduit Adapters, 1 Port

- **Attaches to Standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for transition to 12 and 19-Pin Multifast Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws included**
- **IP67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips accept up to 14 AWG Wires**

Housing Style	Part Number	Features	Wiring Diagram
	**CA-1/CK 12**	Nylon housing, nickel plated brass receptacle housing, 80 °C, 300 V, 4 A, attaches to standard conduit body for transition to 12-pin Multifast connector	
	CA-1/CKV 12	Nylon housing, stainless steel receptacle housing 80 °C, 300 V, 4 A, attaches to standard conduit body for transition to 12-pin Multifast connector	
	CA-1/CK 19	Nylon housing, nickel plated brass receptacle housing, 80 °C, 150 V, 4 A, attaches to standard conduit body for transition to 19-pin Multifast connector	
	CA-1/CKV 19	Nylon housing, stainless steel receptacle housing, 80 °C, 150 V, 4 A, attaches to standard conduit body for transition to 19-pin Multifast connector	

Pinouts

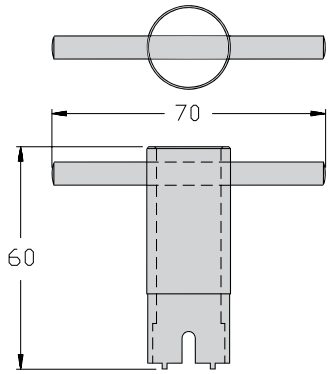
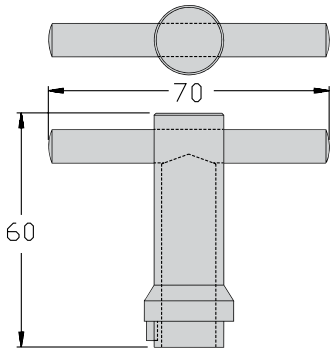
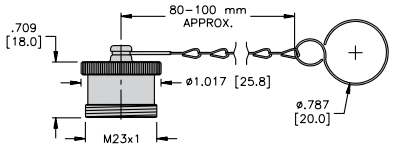
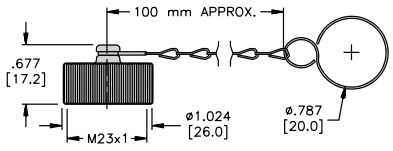
Female	
	
12-Pin	**9-Pin**

We reserve the right to make technical alterations without prior notice.

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

Accessories

- **Field Wireable Assembly Tools**
- **Closure Caps**

Housing Style	Part Number	Features
	**CK-TOOL**	Tool to aid assembly of all M23 Multifast field wireables with female threads
	**CKF-TOOL**	Tool to aid assembly of all M23 Multifast field wireables with male threads
	**CS-CC**	Nickel plated brass Neoprene gasket, closure caps for Multifast cordset connectors
	**CK-CC**	Nickel plated brass Neoprene gasket, closure caps for Multifast receptacles (CSF and CKF) and CSS cordset connectors

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	J3
Cordset and Receptacle Specifications	J4
Cordset and Receptacle Selection Matrix	J4
Cordset and Receptacle Dimensions	J5
Cordset and Receptacle Pinouts	J5
Closure Caps	J6
Powerlok and Disconnect Switch Accessories	J7

Features

- Ideal for small motor applications
- 3 and 4-pin
- 14 AWG conductors
- Up to 15 Amp, 600 Volt rated
- Dual rated TC-ER and STOOW PVC cable
- "/S4000" TC-ER only PVC cable option available
- NEMA 1, 3, 4, 6P protection
- IEC IP67 protection

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

Installation Guidelines

Turck's Powerfast products are easy to install by following a few simple guidelines:

- It is important to know the electrical requirements of the application and to select a cordset that has the proper amperage and voltage ratings for the application.
- Cables must be supported to prevent movement on the equipment. Per NFPA 79, the cable must be supported every 12 inches in a non-vertical run, every 36 inches in a vertical run and every 18 inches when suspended in air. The cable should also be supported at any connection points or terminations.
- The cordsets are not intended for disconnection under load. Turck offers Powerlok fittings that prevent the possibility of disconnection These fittings are not required for use, but can be used as a precautionary measure.
- Power should never be supplied from the male connector. The source of power should always be supplied from the female connector.
- Use Turck closure caps to protect connectors from damage or dirt when not connected.

Note: Consult NFPA 79 (Electrical Standard for Industrial Machinery) for required over current protection of conductors and other selection and installation guidelines for industrial machine applications.

Cable Options

Turck offers multiple cable options for the Powerfast products. The majority of Turck's Powerfast products use cables that carry a tray rated, exposed run (TC-ER) approval. Select Turck Powerfast products may carry an additional STOOW cable approval, although versions that carry the STOOW and TC-ER approval are also available as TC-ER only.

Both the STOOW/TC-ER cable and the TC-ER only cable version are premium cable offerings. However, the TC-ER only version has a slightly reduced cable outer diameter. This feature offers more flexibility and is a more cost effective solution. This cable option can be designated by adding a "/S4000" to the end of the part description where applicable.

Estimated hp ratings for D-Size Powerfast

(Based on 85% motor efficiency and 90% power factor.)

Single Phase (2 Current Carrying Conductors)

Pin Count	AWG	Current (amps)	Voltage (volts)	Power (hp)
3-pin	10 AWG	30	230	7
			460	14
			575	17
	12 AWG	25	230	5
			460	11
			575	14
	14 AWG	18	230	4
			460	8
			575	10

Three Phase (3 Current Carrying Conductors)

Pin Count	AWG	Current (amps)	Voltage (volts)	Power (hp)
4-pin	10 AWG	25	230	10
			460	20
			575	25
	12 AWG	20	230	8
			460	16
			575	20
	14 AWG	15	230	6
			460	12
			575	15

Note: These tables are theoretical values and are for reference only. Values will vary based on load conditions, as well as condition, age and type of motor. Please consult a qualified electrician for specific product sizing requirements. Current limits for conductor gauge size taken from NFPA 79 2007 edition.

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	K	M		34	-	*M	/S..

M23 Multifast® Receptacle

Gender

K = female connector, female threads
S = male connector, male threads
Y = male connector, female threads

Coupling Nut Material

(blank) = nylon
M = nickel plated brass
V = 316 stainless steel (hex)

Varieties

(blank) = TC-ER STOOW PVC cable jacket
/S4000 = TC-ER PVC cable jacket
/S .. = consult factory, special
/CS .. = consult factory, special

Length in Meters

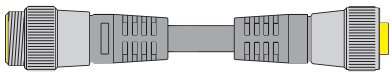
Number of Wires / AWG / Color Codes

34 = 3x14 AWG GN, BK, WH
44 = 4x14 AWG BK, WH, RD, GN

Insertion Point of Extension Cable Second Prefix*

* Male connector listed first, female connector second
Example: **RSM RKM 44-2M**

Extension Examples



R	S	M		R	K	M		44	-	*M

A-Size 7/8" Powerfast Receptacle Part Number Key

R	K	F	V		34	-	*M	/NPT	/S..

A-Size 7/8" Powerfast Receptacle

Gender

K = female connector, female threads
S = male connector, male threads
X = female connector, male threads

A-Size 7/8" Powerfast Receptacle

Housing Material

(blank) = nickel plated brass
K = nylon
V = 316 stainless steel

Varieties

/S .. = consult factory, special
/CS .. = consult factory, special

Connection Thread

/NPT = ½-14 NPT threads
/M20 = M20 x 1.5 threads

Length in Meters

Number of Wires / AWG / Color Codes

34 = 3x14 AWG GN, BK, WH
44 = 4x14 AWG BK, WH, RD, GN

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

A-Size 7/8" Powerfast Cordset Specifications

Mechanical

Mold material/color:	PVC/Black
Contact carrier material:	PVC
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Nylon 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	
Standard:	TC-ER STOOW TPE/Black
Additional options:	TC-ER TPE or TC-ER PVC/Black (/S4000 version)
Ratings:	15 Amps, 600 VAC

c UL us LISTED

A-Size 7/8" Powerfast Receptacle Part Number Key

Mechanical

Contact carrier material:	PVC
Housing material/plating:	
Standard:	Nickel plated brass
Additional options:	Nylon 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67
Temperature rating:	-40 °C to +105 °C (-40 °F to +221 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	PVC
Ratings:	15 Amps, 600 VAC

c UL us LISTED

A-Size 7/8" Powerfast Cordset Selection Matrix

			1	2	3	4
			Straight Female	Straight Male	Right Angle Female	Right Angle Male
Pins	**AWG**	**Current Rating**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**
3	14	15	RKM 34-*M	RSM 34-*M		
4	14	15	RKM 44-*M	RSM 44-*M		

Pins	AWG	Current Rating	TC-ER	TC-ER	TC-ER	TC-ER
3	14	15	RKM 34-*M/S4000	RSM 34-*M/S4000	WKM 34-*M/S4000	WSM 34-*M/S4000
4	14	15	RKM 44-*M/S4000	RSM 44-*M/S4000	WKM 44-*M/S4000	WSM 44-*M/S4000

A-Size 7/8" Powerfast Receptacle Selection Matrix

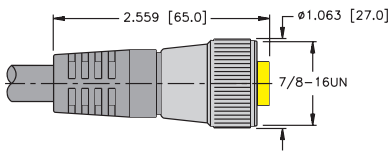
			5	6	7	8
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**1/2-14 NPT Mounting Thread**	**1/2-14 NPT Mounting Thread**	**M20 Mounting Thread**	**M20 Mounting Thread**
3	14	15	RKF 34-*M/NPT	RSF 34-*M/NPT	RSF 34-*M/M20	RKF 34-*M/M20
4	14	15	RKF 44-*M/NPT	RSF 44-*M/NPT	RSF 44-*M/M20	RKF 44-*M/M20

We reserve the right to make technical alterations without prior notice.

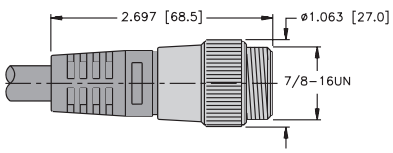
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

A-Size 7/8" Powerfast Cordset and Receptacle Dimensions

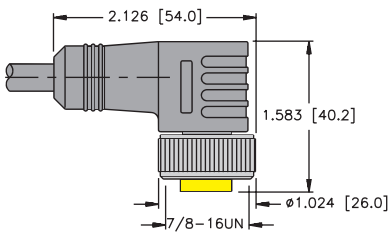
1 **RKM..**



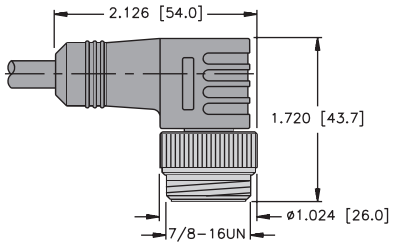
2 **RSM..**



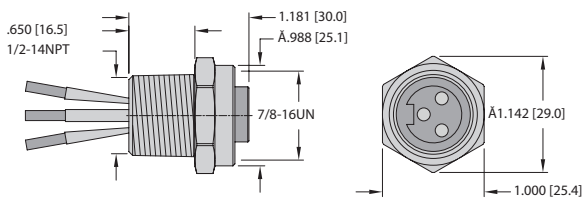
3 **WKM..**



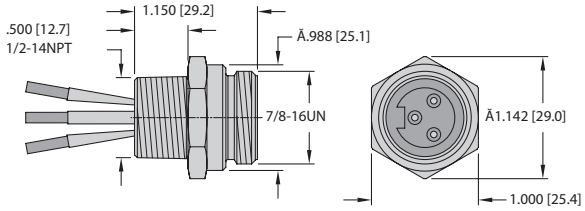
4 **WSM..**



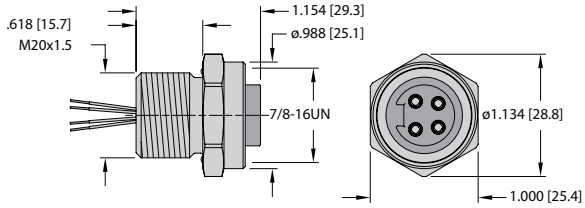
5 **RKF..*/NPT..**



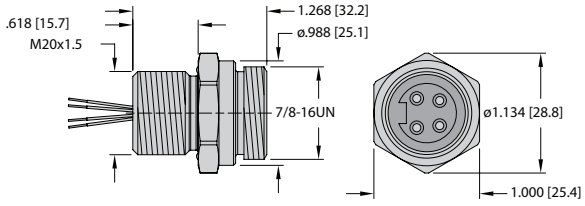
6 **RSF..*/NPT..**



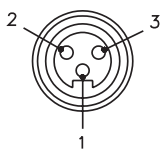
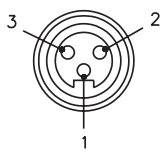
7 **RKF..*/M20..**



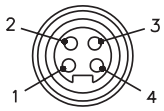
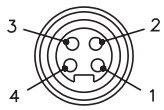
8 **RSF..*/M20..**



A-Size 7/8" Powerfast Cordset and Receptacle Pinouts

3-Pin	
Female	Male
	

Pinouts
1. GN 2. BK 3. WH

4-Pin	
Female	Male
	

Pinouts
1. BK 2. WH 3. RD 4. GN

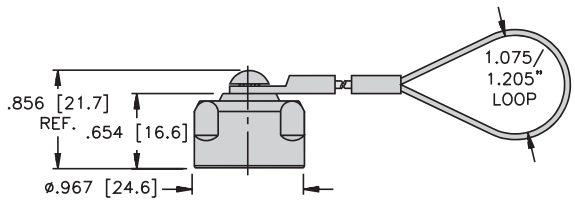
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

A-Size 7/8" Powerfast Closure Cap Selection Matrix

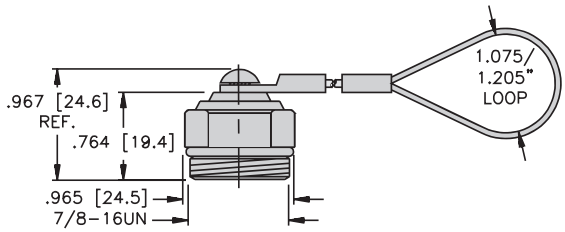
		9	10	11	12	13	14
		Mates to male cordsets and receptacles	Mates to female cordsets and receptacles	Mates to male receptacles	Mates to female receptacles	Mates to male cordsets and receptacles	Mates to female cordsets and receptacles
Material	**Thread**	**6" SS Loop Lanyard**	**6" SS Loop Lanyard**	**6" SS Lanyard with Eyelet**	**6" SS Lanyard with Eyelet**	**No Lanyard**	**No Lanyard**
Nickel Plated Brass	7/8-16 UN	RKM-CC	RSM-CC	RKF-CC	RSF-CC	RKF-MC	RSF-MC
Stainless Steel	7/8-16 UN	RKMV-CC	RSMV-CC	RKFV-CC	RSFV-CC	RKFV-MC	RSFV-MC

A-Size 7/8" Powerfast Closure Cap Dimensions

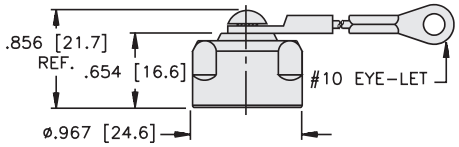
9 **RKM-CC**



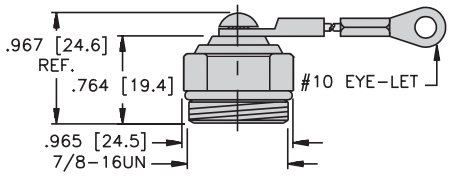
10 **RSM-CC**



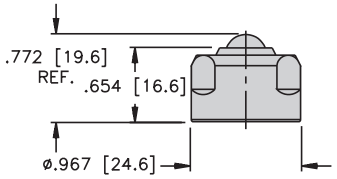
11 **RKF-CC**



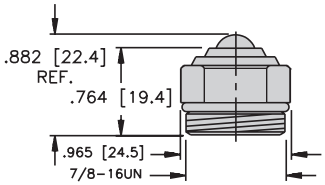
12 **RSF-CC**



13 **RKF-MC**



14 **RSF-MC**



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

A-Size 7/8" Powerlok

Part Number	Application
LOCK-A POWER	Nylon locking guard for straight A-Size Powerfast connectors

A-Size Powerlok Open

A-Size Powerlok Closed

A-Size Powerfast Disconnect Switch Selection Matrix

Pins	AWG	Current Rating	Standard	M12 Auxilary Output
3	14	15 Amps	RSF RKF 34/DS	RSF RKF 34/DS/AUX
4	14	15 Amps	RSF RKF 44/DS	RSF RKF 44/DS/AUX

We reserve the right to make technical alterations without prior notice.

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

Notes

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

Part Number Keys	J10
Cordset, Receptacle and Field Wireable Specifications	J12
Cordset, Receptacle and Field Wireable Selection Matrix	J13
Cordset, Receptacle and Field Wireable Dimensions	J15
Cordset, Receptacle and Field Wireable Pinouts	J16
Tee Specifications	J16
Tee Selection Matrix	J17
Tee Dimensions	J20
Power Reducer Specifications	J23
Power Reducer Selection Matrix	J23
Power Reducer Dimensions	J23
Tee and Power Reducer Wiring Diagrams	J24
Tee and Power Reducer Pinouts	J25
Closure Caps	J26
Powerlok Accessories	J26

Features

- Ideal for small motor applications
- 3 and 4-pin
- 14 AWG conductors
- Up to 31 Amp, 600 Volt rated
- Dual rated TC-ER and STOOW PVC cable
- "/S4000" TC-ER only PVC cable option available
- NEMA 1, 3, 4, 6P protection
- IEC IP67 protection

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

D-Size 1 3/8" Powerfast Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

G	S	D		M		30	-	*M	

D-Size 1 3/8" Powerfast Cordset

Gender

K = female connector, female threads
S = male connector, male threads

D-Size Power

Configuration

(blank) = straight
W = right angle

Coupling Nut Material

A = anodized aluminum
M = nickel plated brass
V = 316 stainless steel

Number of Wires / AWG / Color Codes

30 = 3x10 AWG BK, GN, WH
32 = 3x12 AWG BK, GN, WH
34 = 3x14 AWG BK, GN, WH
40 = 4x10 AWG BK, GN, RD, WH
42 = 4x12 AWG BK, GN, RD, WH
44 = 4x14 AWG BK, GN, RD, WH

Varieties

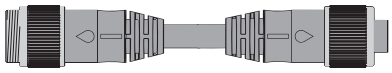
(blank) = TC-ER STOOW TPE cable jacket
/S4000 = TC-ER PVC cable jacket

Length in Meters

Insertion Point of Extension Cable Second Prefix*

* Male connector listed first, female connector second
Example: RSM RKM 44-2M

Extension Examples



G	S	D	M

G	K	D	M

30	-	*M

D-Size 1 3/8" Powerfast Receptacle Part Number Key

G	K	D	F		30	-	*M	/14.5/NPT

D-Size 1 3/8" Powerfast Receptacle

Gender

K = female connector, female threads
S = male connector, male threads

D-Size Power

Designator for Receptacle

Housing Material

(blank) = nickel plated brass
A = anodized aluminum
V = 316 stainless steel

Number of Wires / AWG / Color Codes

30 = 3x10 AWG BK, GN, WH
32 = 3x12 AWG BK, GN, WH
34 = 3x14 AWG BK, GN, WH
40 = 4x10 AWG BK, GN, RD, WH
42 = 4x12 AWG BK, GN, RD, WH
44 = 4x14 AWG BK, GN, RD, WH

Thread Type

/14.5/NPT = ½-14 NPT threads
/14.75/NPT = ¾-14 NPT threads
/M20 = M20x1.5 threads

Length in Meters

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

G	S	D	M	/	2GKDM	30	-	*	-	/S..

D-Size (1 3/8") Powerfast Tees

Trunk(1) Identifier

K = female connector
S = male connector

Coupling Nut Material

A = anodized aluminum
M = nickel plated brass
V = 316 stainless steel

D-Size (1 3/8") Powerfast Tees

Trunk(2) and Drop(3) Identifiers

2GKDM	=	female trunk(2) and female drop(3)
GSDM/GKDM	=	male trunk(2) and female drop(3)
GKDM/T	=	female trunk (2) and cable drop(3)
GKDM/RKM	=	female trunk(2) and female A-Size Power drop(3)
GKDM/BKM	=	female trunk(2) and female M16 Power drop(3)

Note: Only one male connector per tee available.
Standard female coupling nut material for A-Size Power drop and M16 Power drop is nickel plated brass.

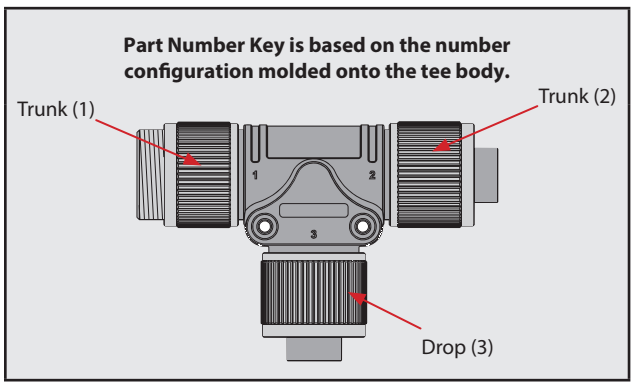
Varieties

/S	=	consult factory, special
/CS	=	consult factory, special
/S4000	=	designates TC-ER cable

Length in Meters

Number of Wires / AWG / Color Codes

30 = 3x10 AWG BK, GN, WH
32 = 3x12 AWG BK, GN, WH
34 = 3x14 AWG BK, GN, WH
40 = 4x10 AWG BK, GN, RD, WH
42 = 4x12 AWG BK, GN, RD, WH
44 = 4x14 AWG BK, GN, RD, WH



Tee Examples

G	S	D	M	/	2	G	K	D	M	30

G	S	D	M	/	G	K	D	M	/	R	K	M	44	-	*

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

D-Size 1 3/8" Powerfast Cordset Specifications

Mechanical

Mold material/color:	PVC/Black
Housing material/plating:	PVC
Standard:	Nickel plated brass
Additional options:	Anodized aluminum 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	
Standard:	TC-ER STOOW TPE/Black
Additional options:	TC-ER PVC/Black (/S4000 version)
Ratings:	19-31 Amps, 600 VAC

c UL us LISTED

D-Size 1 3/8" Powerfast Receptacle Specifications

Mechanical

Contact carrier material:	PVC
Housing material/plating:	
Standard:	Nickel plated brass
Additional options:	Anodized aluminum 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Temperature rating:	-40 °C to +105 °C (-40 °F to +221 °F)

Electrical

Contact material:	Brass or copper with gold plating
Conductor insulation:	PVC
Ratings:	19-31 Amps, 600 VAC

c UL us LISTED

D-Size 1 3/8" Powerfast Field Wireable Specifications

Mechanical

Housing material/color:	Nylon/Black
Contact carrier material:	PVC
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Anodized aluminum 316 stainless steel
Environmental protection:	NEMA 6P and IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Ratings:	Up to 31 Amps, 600 VAC

We reserve the right to make technical alterations without prior notice.

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

D-Size 1 3/8" Powerfast Cordset Selection Matrix

			1 Straight Female	2 Straight Male	3 Right Angle Female	4 Right Angle Male
Pins	**AWG**	**Current Rating**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**
3	10	31 Amps	GKDM 30-*M	GSDM 30-*M	GKDWM 30-*M	GSDWM 30-*M
	12	26 Amps	GKDM 32-*M	GSDM 32-*M	GKDWM 32-*M	GSDWM 32-*M
	14	23 Amps	GKDM 34-*M	GSDM 34-*M	GKDWM 34-*M	GSDWM 34-*M
4	10	28 Amps	GKDM 40-*M	GSDM 40-*M	GKDWM 40-*M	GSDWM 40-*M
	12	22 Amps	GKDM 42-*M	GSDM 42-*M	GKDWM 42-*M	GSDWM 42-*M
	14	19 Amps	GKDM 44-*M	GSDM 44-*M	GKDWM 44-*M	GSDWM 44-*M

Pins	**AWG**	**Current Rating**	**TC-ER**	**TC-ER**	**TC-ER**	**TC-ER**
3	10	31 Amps	GKDM 30-*M/S4000	GSDM 30-*M/S4000	GKDWM 30-*M/S4000	GSDWM 30-*M/S4000
	12	26 Amps	GKDM 32-*M/S4000	GSDM 32-*M/S4000	GKDWM 32-*M/S4000	GSDWM 32-*M/S4000
	14	23 Amps	GKDM 34-*M/S4000	GSDM 34-*M/S4000	GKDWM 34-*M/S4000	GSDWM 34-*M/S4000
4	10	28 Amps	GKDM 40-*M/S4000	GSDM 40-*M/S4000	GKDWM 40-*M/S4000	GSDWM 40-*M/S4000
	12	22 Amps	GKDM 42-*M/S4000	GSDM 42-*M/S4000	GKDWM 42-*M/S4000	GSDWM 42-*M/S4000
	14	19 Amps	GKDM 44-*M/S4000	GSDM 44-*M/S4000	GKDWM 44-*M/S4000	GSDWM 44-*M/S4000

See page 15 for dimensional drawings.

* Length in meters. Standard cable lengths are 2, 5 and 10 meters. Consult factory for other lengths.
Note: Extension cables are available, please consult Part Number Key (page 10).
Standard coupling nut material is nickel plated brass. Consult Part Number Key (page 10) for anodized aluminum and 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

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

D-Size 1 3/8" Powerfast Receptacle Selection Matrix

Front Mount			5	6	7	8
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**½-14 NPT Mounting Thread**	**½-14 NPT Mounting Thread**	**¾-14 NPT Mounting Thread**	**¾-14 NPT Mounting Thread**
3	10	31 Amps	GKDF 30-*M/14.5/NPT	GSDF 30-*M/14.5/NPT	GKDF 30-*M/14.75/NPT	GSDF 30-*M/14.75/NPT
	12	26 Amps	GKDF 32-*M/14.5/NPT	GSDF 32-*M/14.5/NPT	GKDF 32-*M/14.75/NPT	GSDF 32-*M/14.75/NPT
	14	23 Amps	GKDF 34-*M/14.5/NPT	GSDF 34-*M/14.5/NPT	GKDF 34-*M/14.75/NPT	GSDF 34-*M/14.75/NPT
4	10	28 Amps	GKDF 40-*M/14.5/NPT	GSDF 40-*M/14.5/NPT	GKDF 40-*M/14.75/NPT	GSDF 40-*M/14.75/NPT
	12	22 Amps	GKDF 42-*M/14.5/NPT	GSDF 42-*M/14.5/NPT	GKDF 42-*M/14.75/NPT	GSDF 42-*M/14.75/NPT
	14	19 Amps	GKDF 44-*M/14.5/NPT	GSDF 44-*M/14.5/NPT	GKDF 44-*M/14.75/NPT	GSDF 44-*M/14.75/NPT

Front Mount			9	10
			Female	Male
Pins	**AWG**	**Current Rating**	**M20 Mounting Thread**	**M20 Mounting Thread**
3	10	31 Amps	GKDF 30-*M/M20	GSDF 30-*M/M20
	12	26 Amps	GKDF 32-*M/M20	GSDF 32-*M/M20
	14	23 Amps	GKDF 34-*M/M20	GSDF 34-*M/M20
4	10	28 Amps	GKDF 40-*M/M20	GSDF 40-*M/M20
	12	22 Amps	GKDF 42-*M/M20	GSDF 42-*M/M20
	14	19 Amps	GKDF 44-*M/M20	GSDF 44-*M/M20

See page 15-16 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Note: Standard housing material is nickel plated brass. Consult Part Number Key (page 10) for anodized aluminum and 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

D-Size 1 3/8" Powerfast Field Wireable Selection Matrix

Front Mount			11	12
			Female	Male
Pins	**AWG**	**Current Rating**	**Screw Terminal**	**Screw Terminal**
3	8-14	Up to 31 Amps	GKDM 30-0	GSDM 30-0
4	8-14	Up to 28 Amps	GKDM 40-0	GSDM 40-0

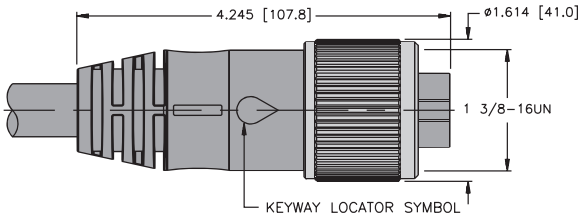
See page 16 for dimensional drawings.

Note: Standard coupling nut material is nickel plated brass. Consult factory for anodized aluminum and 316 stainless steel options.

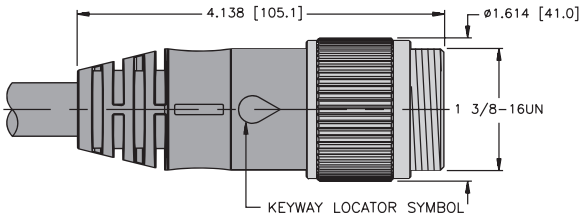
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast Cordset Dimensions

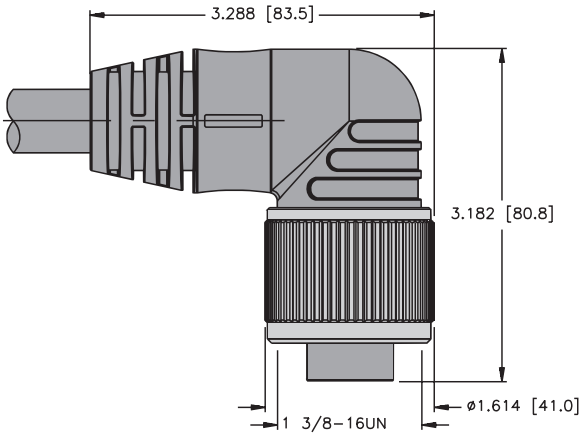
1 **GKDM..**



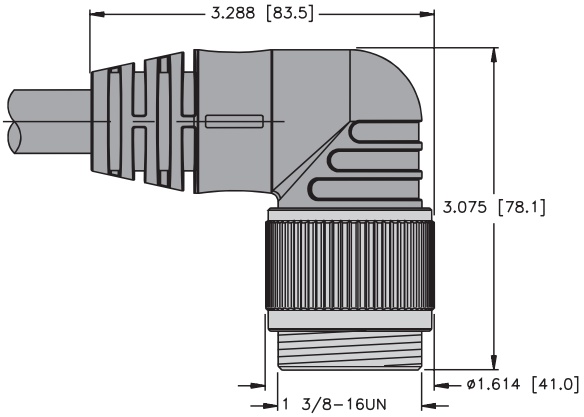
2 **GSDM..**



3 **GKDWM..**

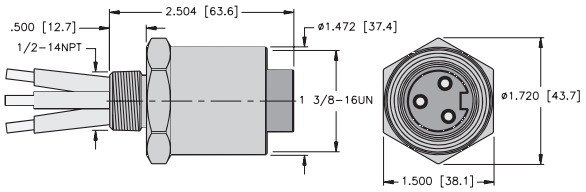


4 **GSDWM..**

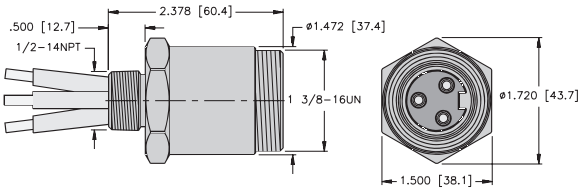


D-Size 1 3/8" Powerfast Receptacle and Field Wireable Dimensions

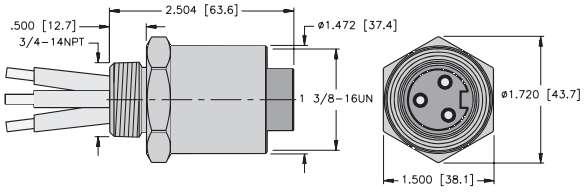
5 **GKDF..*/14.5/NPT**



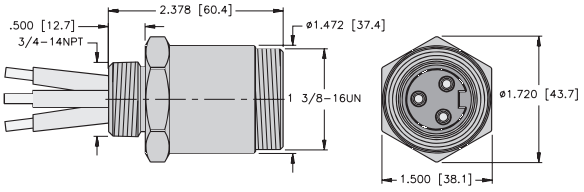
6 **GSDF..*/14.5/NPT**



7 **GKDF..*/14.75/NPT**



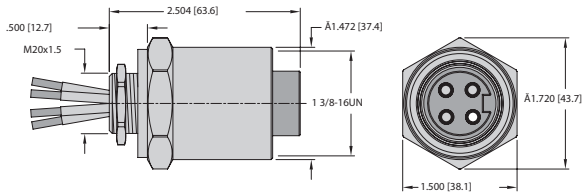
8 **GSDF..*/14.75/NPT**



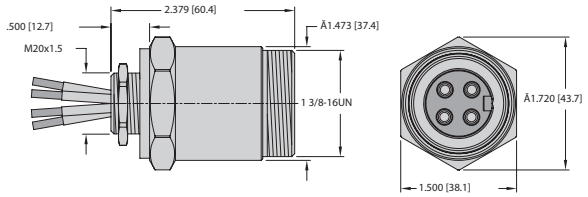
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast Receptacle and Field Wireable Dimensions

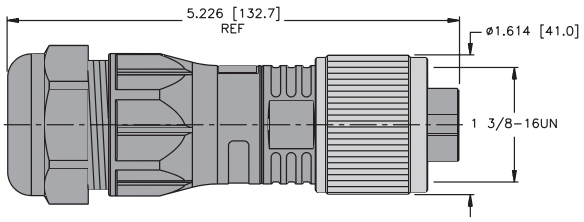
9 **GKDF..*/M20..**



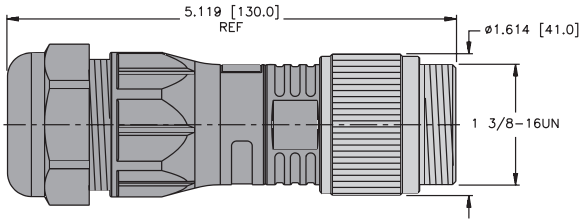
10 **GSDF..*/M20..**



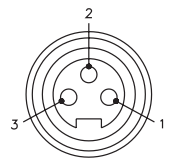
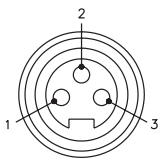
11 **GKDM..*-0**

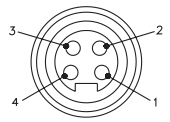
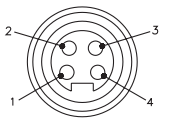


12 **GSDM..*-0**



D-Size 1 3/8" Powerfast Cordset, Receptacle and Field Wireable Pinouts

3-Pin		Pinouts
Female	Male	
		1. BK 2. GN 3. WH

4-Pin		Pinouts
Female	Male	
		1. BK 2. GN 3. RD 4. WH

D-Size 1 3/8" Powerfast Tee Specifications

Mechanical

Mold material/color:	PVC/Black
Contact carrier material:	
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Anodized aluminum 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	
Standard:	TC-ER STOOW TPE/Black
Additional options:	TC-ER PVC/Black (/S4000 version)
Ratings:	19-31 Amps, 600 VAC

c UL us LISTED

Note: UL approval applies to D-size and A-size power connectors with integral connector drop.

We reserve the right to make technical alterations without prior notice.

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

D-Size 1 3/8" Powerfast Tee Selection Matrix

Pins	Drop AWG	Trunk Current Rating	Drop Current Rating	13 Integral D-Size Connector Drop	14 Integral A-Size Connector Drop	15 Dual Integral A-Size Power Connector Drop	16 Integral M16 Connector Drop
3	10	31 Amps	31 Amps	GSDM/2GKDM 30			
	14	31 Amps	15 Amps		GSDM/GKDM/RKM 34	GSDM/2RKM 34	GSDM/GKDM/BKM 34
4	10	28 Amps	28 Amps	GSDM/2GKDM 40			
	14	28 Amps	15 Amps		GSDM/GKDM/RKM 44	GSDM/2RKM 44	GSDM/GKDM/BKM 44

Pins	Drop AWG	Trunk Current Rating	Drop Current Rating	17 Cable Drop	18 Cable Drop With D-Size Power Connector	19 Cable Drop With A-Size Power Connector	20 Cable Drop With M16 Power Connector
				TC-ER STOOW	TC-ER STOOW	TC-ER STOOW	TC-ER STOOW
3	10	31 Amps	31 Amps	GSDM/GKDM/T30-*	GSDM/2GKDM 30-*		
	12	31 Amps	26 Amps	GSDM/GKDM/T32-*	GSDM/2GKDM 32-*		
	14	31 Amps	23 Amps	GSDM/GKDM/T34-*	GSDM/2GKDM 34-*	GSDM/GKDM/RKM 34-*†	
4	10	28 Amps	28 Amps	GSDM/GKDM/T40-*	GSDM/2GKDM 40-*		
	12	28 Amps	22 Amps	GSDM/GKDM/T42-*	GSDM/2GKDM 42-*		
	14	28 Amps	19 Amps	GSDM/GKDM/T44-*	GSDM/2GKDM 44-*	GSDM/GKDM/RKM 44-* †	

Pins	Drop AWG	Trunk Current Rating	Drop Current Rating	TC-ER	TC-ER	TC-ER	TC-ER
3	10	31 Amps	31 Amps	GSDM/GKDM/T30-*/S4000	GSDM/2GKDM 30-*/S4000		
	12	31 Amps	26 Amps	GSDM/GKDM/T32-*/S4000	GSDM/2GKDM 32-*/S4000		
	14	31 Amps	23 Amps	GSDM/GKDM/T34-*/S4000	GSDM/2GKDM 34-*/S4000	GSDM/GKDM/RKM 34-*/S4000†	GSDM/GKDM/BKM 34-*/S4000†
4	10	28 Amps	28 Amps	GSDM/GKDM/T40-*/S4000	GSDM/2GKDM 40-*/S4000		
	12	28 Amps	22 Amps	GSDM/GKDM/T42-*/S4000	GSDM/2GKDM 42-*/S4000		
	14	28 Amps	19 Amps	GSDM/GKDM/T44-*/S4000	GSDM/2GKDM 44-*/S4000	GSDM/GKDM/RKM 44-*/S4000 †	GSDM/GKDM/BKM 44-*/S4000 †

See page 19-20 for dimensional drawings.

* Length in meters.

† Drop current rating of 15 amps.

Note: Standard coupling nut material is nickel plated brass. Consult Part Number Key (page 11) for anodized aluminum and 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

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

D-Size 1 3/8" Powerfast h-Style Tee Selection Matrix

				21 Integral D-Size Connector Drop	22 Integral A-Size Connector Drop	23 Integral M16 Connector Drop
Pins	**Drop AWG**	**Trunk Current Rating**	**Drop Current Rating**			
3	10	31 Amps	31 Amps	SH-GSDM/2GKDM 30		
	14	31 Amps	15 Amps		SH-GSDM/GKDM/RKM 34-*	SH-GSDM/GKDM/BKM 34
4	10	28 Amps	28 Amps	SH-GSDM/2GKDM 40		
	14	28 Amps	15 Amps		SH-GSDM/GKDM/RKM 44-*	SH-GSDM/GKDM/BKM 44

				24 Cable Drop	25 Cable Drop With D-Size Power Connector	26 Cable Drop With A-Size Power Connector	27 Cable Drop With M16 Power Connector
Pins	**Drop AWG**	**Trunk Current Rating**	**Drop Current Rating**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**	**TC-ER STOOW**
3	10	31 Amps	31 Amps	SH-GSDM/GKDM/T30-*	SH-GSDM/2GKDM 30-*		
	12	31 Amps	26 Amps	SH-GSDM/GKDM/T32-*	SH-GSDM/2GKDM 32-*		
	14	31 Amps	23 Amps	SH-GSDM/GKDM/T34-*	SH-GSDM/2GKDM 34-*	SH-GSDM/GKDM/RKM 34-*†	
4	10	28 Amps	28 Amps	SH-GSDM/GKDM/T40-*	SH-GSDM/2GKDM 40-*		
	12	28 Amps	22 Amps	SH-GSDM/GKDM/T42-*	SH-GSDM/2GKDM 42-*		
	14	28 Amps	19 Amps	SH-GSDM/GKDM/T44-*	SH-GSDM/2GKDM 44-*	SH-GSDM/GKDM/RKM 44-* †	

Pins	**Drop AWG**	**Trunk Current Rating**	**Drop Current Rating**	**TC-ER**	**TC-ER**	**TC-ER**	**TC-ER**
3	10	31 Amps	31 Amps	SH-GSDM/GKDM/T30-*/S4000	SH-GSDM/2GKDM 30-*/S4000		
	12	31 Amps	26 Amps	SH-GSDM/GKDM/T32-*/S4000	SH-GSDM/2GKDM 32-*/S4000		
	14	31 Amps	23 Amps	SH-GSDM/GKDM/T34-*/S4000	SH-GSDM/2GKDM 34-*/S4000	SH-GSDM/GKDM/RKM 34-*/S4000†	SH-GSDM/GKDM/BKM 34-*/S4000†
4	10	28 Amps	28 Amps	SH-GSDM/GKDM/T40-*/S4000	SH-GSDM/2GKDM 40-*/S4000		
	12	28 Amps	22 Amps	SH-GSDM/GKDM/T42-*/S4000	SH-GSDM/2GKDM 42-*/S4000		
	14	28 Amps	19 Amps	SH-GSDM/GKDM/T44-*/S4000	SH-GSDM/2GKDM 44-*/S4000	SH-GSDM/GKDM/RKM 44-*/S4000 †	SH-GSDM/GKDM/BKM 44-*/S4000 †

See page 21-22 for dimensional drawings.

* Length in meters.

† Drop current rating of 15 amps.

Note: Standard coupling nut material is nickel plated brass. Consult Part Number Key (page 11) for anodized aluminum and 316 stainless steel options.

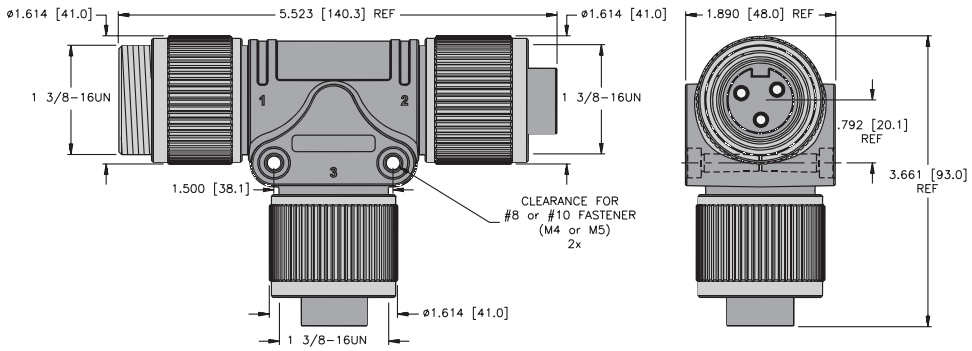
We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

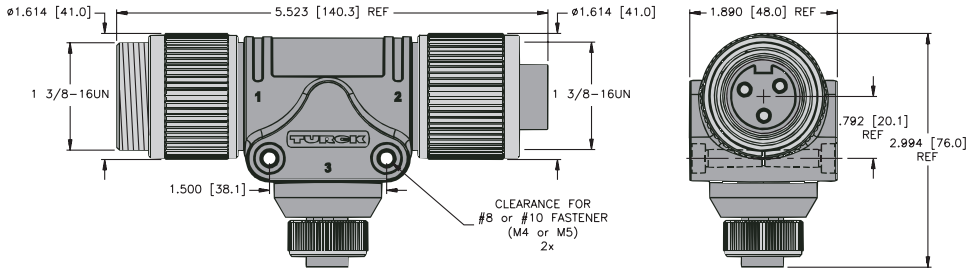
13

Integral D-Size Power Connector Drop
GSDM/2GKDM..



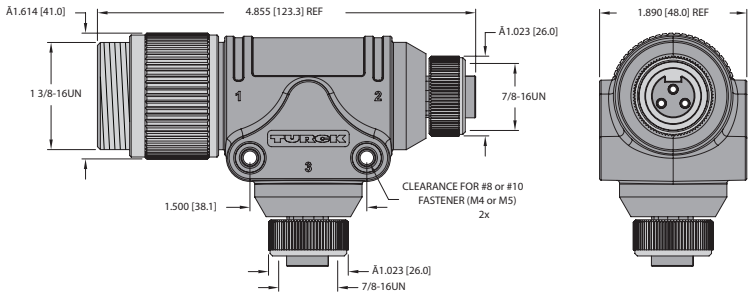
14

Integral A-Size Power Connector Drop
GSDM/GKDM/RKM..



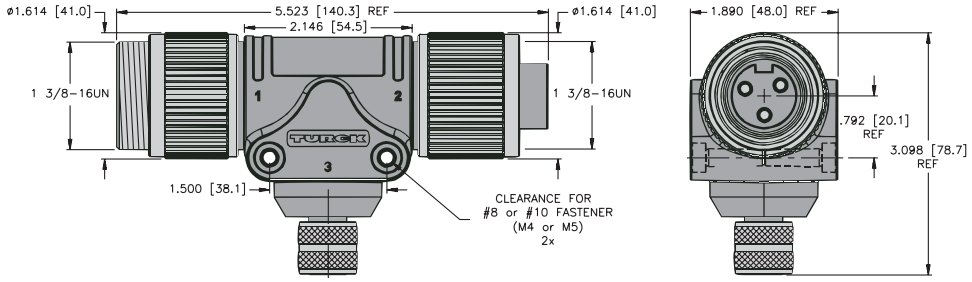
15

Dual Integral A-Size Power Connector Drop
GSDM/2RKM..



16

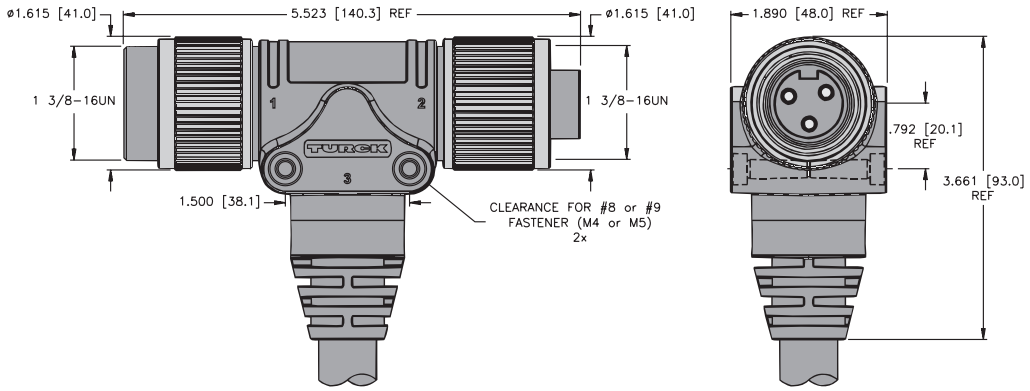
Integral M16 Power Connector Drop
GSDM/GKDM/BKM..



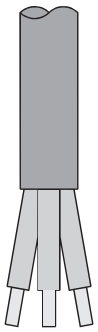
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast Tee Dimensions

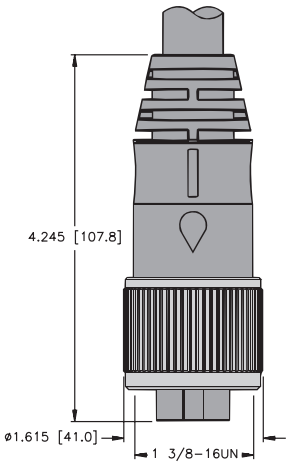
Tee with Cable Drop and Connector Options



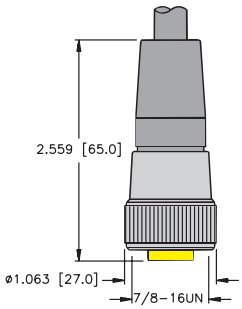
17 Cable Drop GSDM/GKDM/T..



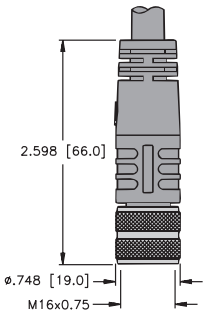
18 D-Size Power Connector GSDM/2GKDM..



19 A-Size Power Connector GSDM/GKDM/RKM..



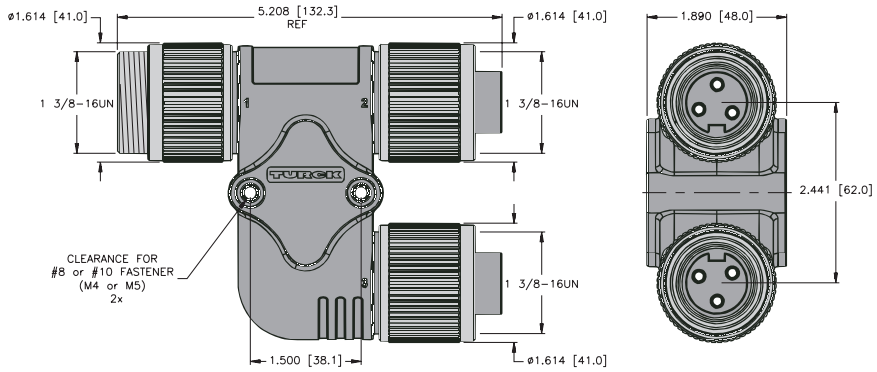
20 M16 Power Connector GSDM/GKDM/BKM..



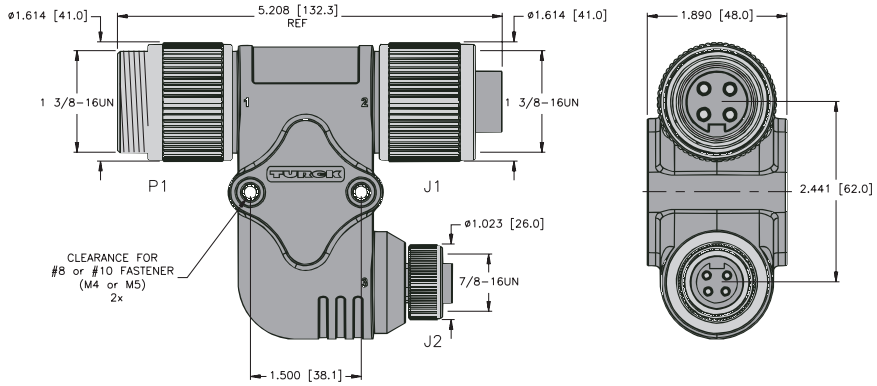
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast h-Style Tee Dimensions

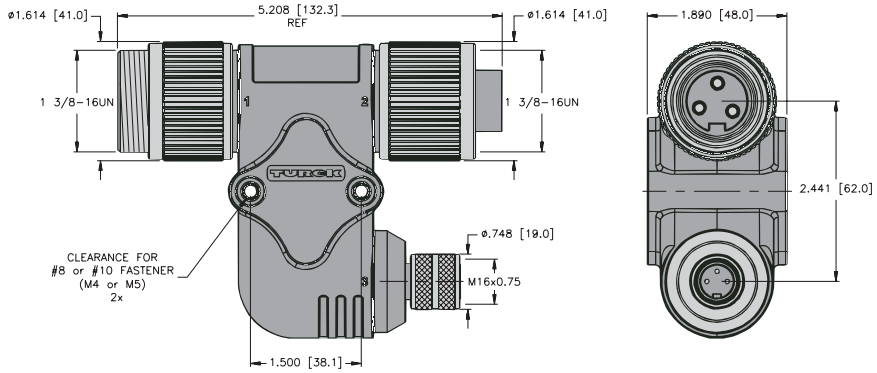
21 **Integral D-Size Power Connector Drop**
SH-GSDM/2GKDM..



22 **Integral A-Size Power Connector Drop**
SH-GSDM/GKDM/RKM..



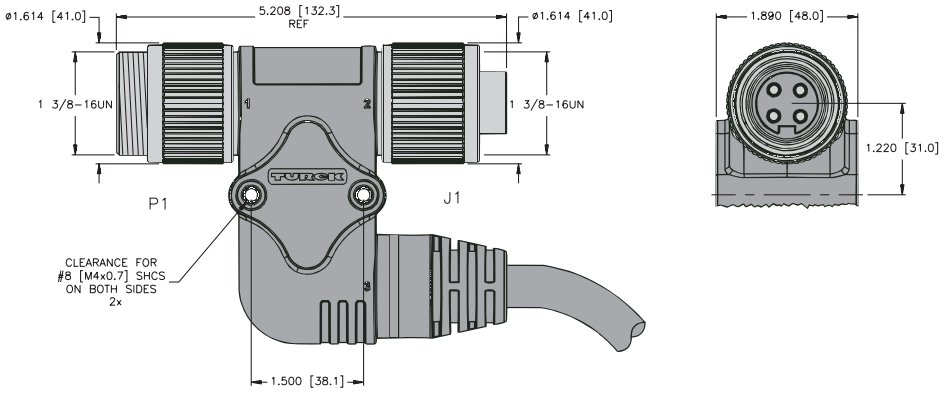
23 **Integral M16 Power Connector Drop**
SH-GSDM/GKDM/BKM..



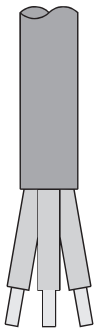
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast h-Style Tee Dimensions

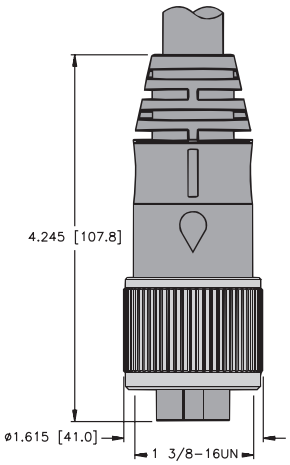
h-Style Tee with Cable Drop and Connector Options



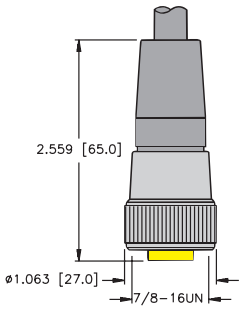
24 **Cable Drop**
SH-GSDM/GKDM/T



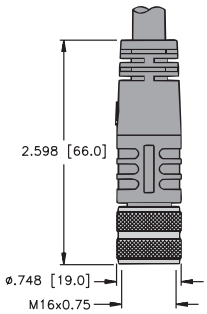
25 **D-Size Power Connector**
SH-GSDM/2GKDM..



26 **A-Size Power Connector**
SH-GSDM/GKDM/RKM..



27 **M16 Power Connector**
SH-GSDM/GKDM/BKM..



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

D-Size 1 3/8" Powerfast Power Reducer Specifications

Mechanical

Mold material/color:	PVC/Black
Contact carrier material:	PVC
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Anodized aluminum 316 stainless steel
Environmental protection:	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Ratings:	15 Amps, 600 VAC

c UL us LISTED

Note: UL approval applies to D-size and A-size Power connectors.

D-Size 1 3/8" Powerfast Power Reducer Selection Matrix

			28	29
Pins	**Drop AWG**	**Current Rating**	**D-Size Power to A-Size Power Reducer**	**D-Size Power to M16 Power Reducer**
3	14	Up to 15 Amps	GSDM RKM 34-0	GSDM BKM 34-0
4	14	Up to 15 Amps	GSDM RKM 44-0	GSDM BKM 44-0

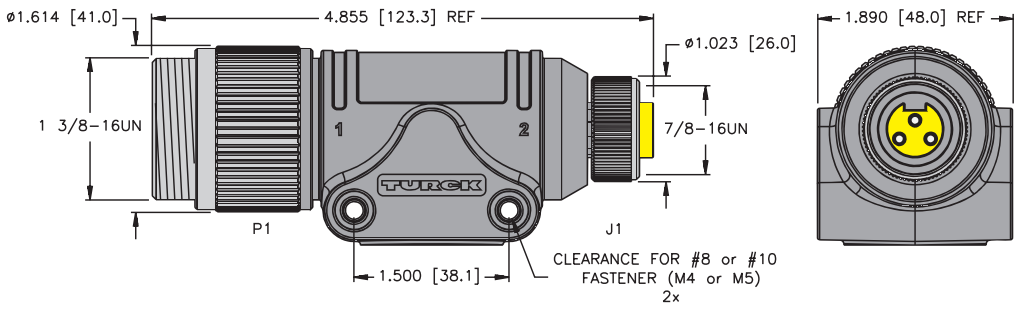
See below for dimensional drawings.

Note: Standard coupling nut material is nickel plated brass. Consult factory for anodized aluminum and 316 stainless steel options.

D-Size 1 3/8" Powerfast Power Reducer Dimensions

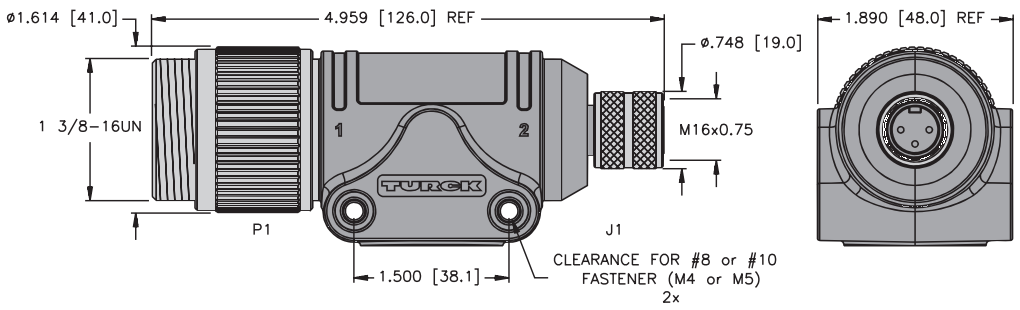
28

D-Size Power to A-Size Power Reducer
GSDM RKM..



29

D-Size Power to M16 Power Reducer
GSDM BKM..

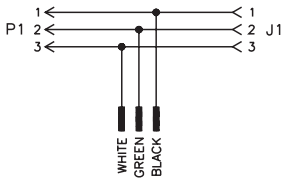
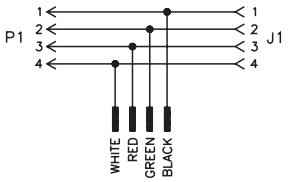


We reserve the right to make technical alterations without prior notice.

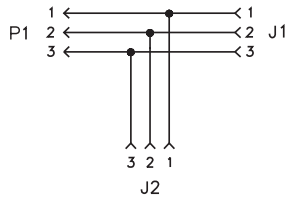
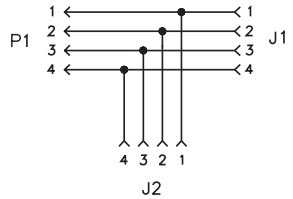
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

D-Size 1 3/8" Powerfast Tee Wiring Diagrams

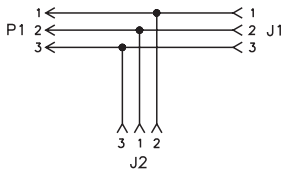
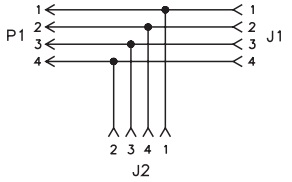
Cable Drop

3-Pin	4-Pin
	

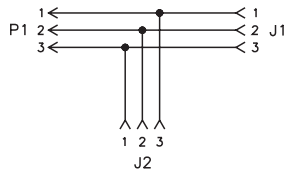
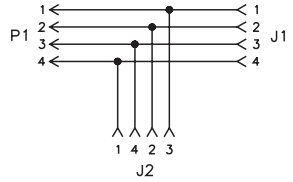
D-Size Power Drop

3-Pin	4-Pin
	

A-Size Power Drop

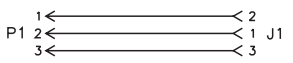
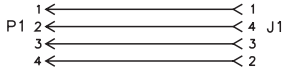
3-Pin	4-Pin
	

M16 Power Drop

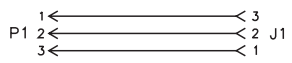
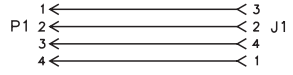
3-Pin	4-Pin
	

D-Size 1 3/8" Powerfast Power Reducer Wiring Diagrams

D-Size Power to A-Size Power

3-Pin	4-Pin
	

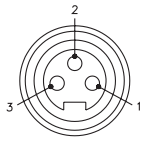
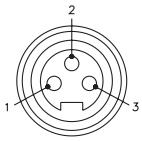
D-Size Power to M16 Power

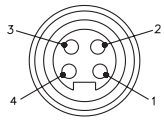
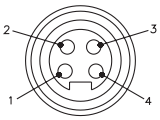
3-Pin	4-Pin
	

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

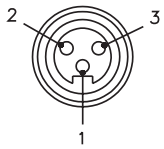
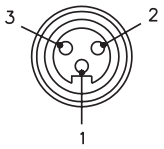
D-Size 1 3/8" Powerfast Tee and Power Reducer Pinouts

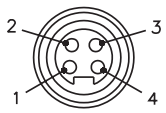
D-Size Power

3-Pin	
Female	Male
	

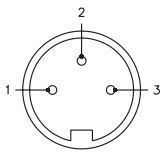
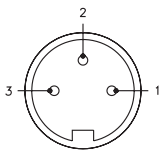
4-Pin	
Female	Male
	

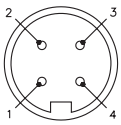
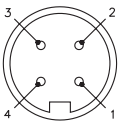
A-Size Power

3-Pin	
Female	Male
	

4-Pin	
Female	Male
	

M16 Power

3-Pin	
Female	Male
	

4-Pin	
Female	Male
	

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

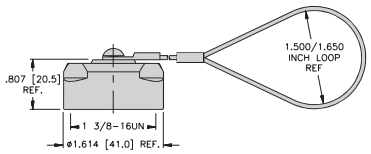
D-Size 1 3/8" Powerfast Closure Cap Selection Matrix

		30	31	32	33	34	35
		Mates to male cordsets and receptacles	Mates to female cordsets and receptacles	Mates to male receptacles	Mates to female receptacles	Mates to male cordsets and receptacles	Mates to female cordsets and receptacles
Material	**Thread**	**6" SS Loop Lanyard**	**6" SS Loop Lanyard**	**6" SS Lanyard with Eyelet**	**6" SS Lanyard with Eyelet**	**No Lanyard**	**No Lanyard**
Nickel Plated Brass	1 3/8-16 UN	GKDM-CC	GSDM-CC	GKDF-CC	GSDF-CC	GKDM-MC	GSDM-MC

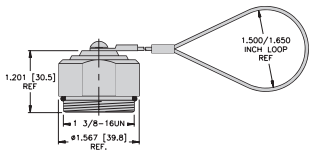
See table below for dimensional drawings.

D-Size 1 3/8" Powerfast Power Reducer Wiring Diagrams

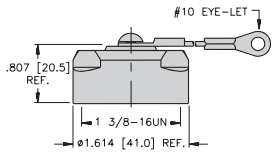
30 **GKDM-CC**



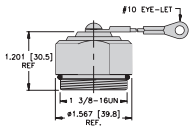
31 **GSDM-CC**



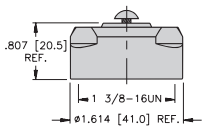
32 **GKDF-CC**



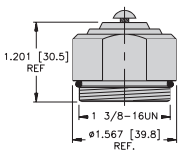
33 **GSDF-CC**



34 **GKDM-MC**



35 **GSDM-MC**



D-Size 1 3/8" Powerlok

Part Number	Application
LOCK-A POWER	Nylon locking guard for straight or right angle D-Size Powerfast connectors

A-Size Powerlok Open

A-Size Powerlok Closed

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

Part Number Keys	J28
Cordset, Receptacle and Field Wireable Specifications	J30
Cordset, Receptacle and Field Wireable Selection Matrix	J31
Cordset, Receptacle and Field Wireable Dimensions	J32
Cordset, Receptacle and Field Wireable Pinouts	J33
Tee Specifications	J34
Tee Selection Matrix	J34
Tee Dimensions	J35
Tee Wiring Diagrams	J41
Tee Pinouts	J41
Closure Caps	J42
Powerlok Accessories	J42

Features

- Ideal for small motor applications
- Shielded versions available
- Multiple tee configurations
- 2 to 4-pin
- 12 and 14 AWG conductors
- Up to 18 Amp, 600 Volt rated
- Tray rated-exposed run PVC cable
- IEC IP67 protection

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

M16 Powerfast Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B S M [ ] — 34-198 - * /S..

M16 (16 mm) Powerfast Cordset

Gender
- K = female connector
- S = male connector

Configuration
- M = straight
- WM = right angle

Coupling Nut Material
- (blank) = nickel plated brass
- K = nylon
- V = 316 stainless steel

Varieties
- /S = consult factory, special
- /CS = consult factory, special

Length in Meters

Number of Wires / AWG / Color Codes
- 22-380 = 2x12 AWG WH, BK
- 34-198 = 3x14 AWG WH, GN, BK
- 44-193 = 4x14 AWG WH, GN, BK, RD

Insertion Point of Extension Cable Second Prefix*

* Male connector listed first, female connector second
Example: BSM BKM 34-198-*

Extension Examples

B S M [ ] — B K M [ ] — 34-198 - *

M16 Powerfast Tee Part Number Key

B S M [ ] / 2BKM — 34 - 198 - * - /S..

M16 (16 mm) Powerfast

Trunk(1) Identifier
- K = female connector
- S = male connector

Configuration
- M = straight

Coupling Nut Material
- (blank) = nickel plated brass
- K = nylon
- V = 316 stainless steel

Trunk(2) and Drop(3) Identifiers
- 2BKM = female trunk(2) and female drop(3)
- BSM/BKM = male trunk(2) and female drop(3)
- BKM/T = female trunk(2) and cable drop(3)

Note: Only one male connector per tee available.

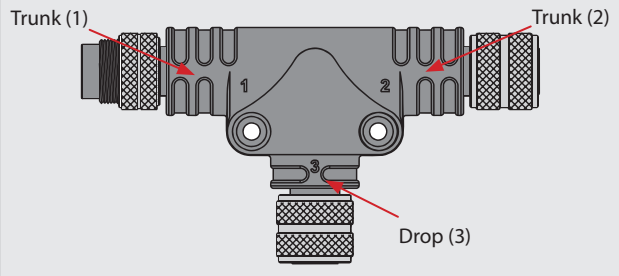
Varieties
- /S = consult factory, special
- /CS = consult factory, special

Length in Meters
- (blank) = connector only
- * = drop cable
- */*/* = trunk(1) cable / trunk(2) cable / drop(3) cable

AWG / Color Code
- (blank) = connector only
- 380 = 2x12 AWG, WH, BK
- 198 = 3x14 AWG, WH, GN, BK
- 193 = 4x14 AWG, WH, GN, BK, RD

Number of Pins
- 22 = 2
- 34 = 3
- 44 = 4

Part Number Key is based on the number configuration molded onto the tee body.



Extension Examples

B S M / 2 B K M — 34 - 198 - *

B S M / 2 B K M — 44

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

M16 Powerfast Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B	K	F			22	-	*	/14.5/NPT

M16 (16 mm) Powerfast Receptacle

Gender

K = female receptacle
S = male receptacle

Designator for Receptacle

Housing Style

(blank) = front mount
D = rear mount

Housing Material

(blank) = nickel plated brass
V = 316 stainless steel

Number of Wires / AWG / Color Codes

22 = 2x12 AWG WH, BK
34 = 3x14 AWG WH, GN, BK
44 = 4x14 AWG WH, GN, BK, RD

Length in Meters

Thread Type

/14.5/NPT = 1/2-14 NPT threads
/18.375/NPT = 3/8-18 NPT threads
/M20 = M20 threads
/M18 = M18 threads

M16 Powerfast Tee Part Number Key

BH	-	B	S	M		/	2BKM	34	-	198	-	*	-	/S..

M16 (16 mm) Powerfast

BH = big H
SH = small h

M16 (16 mm) Powerfast

Trunk(1) Identifier

K = female connector
S = male connector

Configuration

M = straight

Coupling Nut Material

(blank) = nickel plated brass
K = nylon
V = 316 stainless steel

Trunk(2) and Drop(3) Identifiers

2BKM = female trunk(2) and female drop(3)
BSM/BKM = male trunk(2) and female drop(3)
BKM/T = female trunk(2) and cable drop(3)
BSM/BKM = male trunk(2) and female drop(3)
BKM/T = female trunk(2) and cable drop(3)

Note: Only one male connector per tee available.

Number of Pins

22 = 2
34 = 3
44 = 4

AWG / Color Code

(blank) = connector only
380 = 2x12 AWG, WH, BK
198 = 3x14 AWG, WH, GN, BK
193 = 4x14 AWG, WH, GN, BK, RD

Length in Meters

(blank) = connector only
* = drop cable
//* = trunk(1) cable / trunk(2) cable / drop(3) cable
//*/* = trunk(1) cable / trunk(2) cable / drop(3) cable / drop(4) cable

Varieties

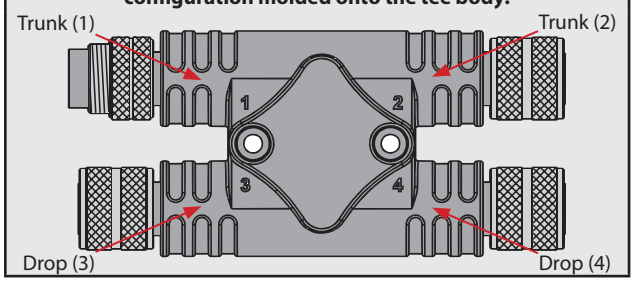
/S = consult factory, special
/CS = consult factory, special

Extension Examples

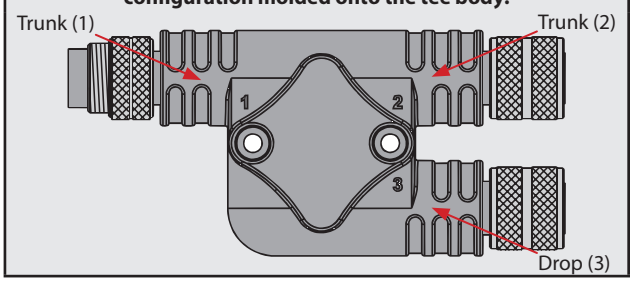
B	S	M	/	2	B	K	M	34	-	198	-	*

B	S	M	/	2	B	K	M	44

H tee Part Number Key is based on the number configuration molded onto the tee body.



h tee Part Number Key is based on the number configuration molded onto the tee body.



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

M16 Powerfast Cordset Specifications

Mechanical

Mold material/color:	PUR/Black
Contact carrier material:	PUR
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Nylon 316 stainless steel
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	TC-ER PVC/Black
Ratings:	15-18 Amps, 600 V

M16 Powerfast Receptacle Specifications

Mechanical

Contact carrier material:	PUR
Housing material/plating:	
Standard:	Nickel plated brass
Additional options:	316 stainless steel
O-Ring material:	Nitrile (BUNA-N)
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +105 °C (-40 °F to +221 °F)

Electrical

Contact material:	Brass or copper with gold plating
Conductor insulation:	PVC
Ratings:	15-18 Amps, 600 V

M16 Powerfast Field Wireable Specifications

Mechanical

Housing material/color:	Glass filled nylon or PVC/Black
Contact carrier material:	PUR
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	Nylon 316 stainless steel
Environmental protection:	NEMA 6P and IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Ratings:	15-18 Amps, 600 VAC

M16 Powerfast Cordset Selection Matrix

			1	2	3	4
			Straight Female	**Straight Male**	**Right Angle Female**	**Right Angle Male**
Pins	**AWG**	**Current Rating**	**TC-ER**	**TC-ER**	**TC-ER**	**TC-ER**
2	12	18 Amps	BKM 22-380-*	BSM 22-380-*	BKWM 22-380-*	BSWM 22-380-*
3	14	15 Amps	BKM 34-198-*	BSM 34-198-*	BKWM 34-198-*	BSWM 34-198-*
4	14	15 Amps	BKM 44-193-*	BSM 44-193-*	BKWM 44-193-*	BSWM 44-193-*

Pins	AWG	Current Rating	SHIELDED TC-ER	SHIELDED TC-ER	SHIELDED TC-ER	SHIELDED TC-ER
2	12	18 Amps	BKMS 22-1759-*	BSMS 22-1759-*	BKWMS 22-1759-*	BSWMS 22-1759-*
3	14	15 Amps	BKMS 34-1364-*	BSMS 34-1364-*	BKWMS 34-1364-*	BSWMS 34-1364-*
4	14	15 Amps	BKMS 44-1363-*	BSMS 44-1363-*	BKWMS 44-1363-*	BSWMS 44-1363-*

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

Front Mount			5	6	7	8
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**1/2-14 NPT Mounting Thread**	**1/2-14 NPT Mounting Thread**	**3/8-18 NPT Mounting Thread**	**3/8-18 NPT Mounting Thread**
2	12	18 Amps	BKF 22-*/14.5/NPT	BSF 22-*/14.5/NPT	BKF 22-*/18.375/NPT	BSF 22-*/18.375/NPT
3	14	15 Amps	BKF 34-*/14.5/NPT	BSF 34-*/14.5/NPT	BKF 34-*/18.375/NPT	BSF 34-*/18.375/NPT
4	14	15 Amps	BKF 44-*/14.5/NPT	BSF 44-*/14.5/NPT	BKF 44-*/18.375/NPT	BSF 44-*/18.375/NPT

Front Mount			9	10	11	12
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**M18 Mounting Thread**	**M18 Mounting Thread**	**M20 Mounting Thread**	**M20 Mounting Thread**
2	12	18 Amps	BKF 22-*/M18	BSF 22-*/M18	BKF 22-*/M20	BSF 22-*/M20
3	14	15 Amps	BKF 34-*/M18	BSF 34-*/M18	BKF 34-*/M20	BSF 34-*/M20
4	14	15 Amps	BKF 44-*/M18	BSF 44-*/M18	BKF 44-*/M20	BSF 44-*/M20

Front Mount			13	14
			Female	Male
Pins	**AWG**	**Current Rating**	**M18 Mounting Thread**	**M18 Mounting Thread**
2	12	18 Amps	BKFD 22-*/M18	BSFD 22-*/M18
3	14	15 Amps	BKFD 34-*/M18	BSFD 34-*/M18
4	14	15 Amps	BKFD 44-*/M18	BSFD 44-*/M18

See pages 32-33 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Note: Standard housing material is nickel plated brass. Consult Part Number Key (page 27) for 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

M16 Powerfast Field Wireable Selection Matrix

			15	16
			Straight Female, PG 11 Cable Gland Accepts 8-11 mm Cable Diameter	Straight Male, PG 11 Cable Gland Accepts 8-11 mm Cable Diameter
Pins	**Acceptable Conductor AWG**	**Current Rating**	**Screw Terminal**	**Screw Terminal**
2	12	18 Amps	BK 22-0	BS 22-0
3	14	15 Amps	BK 34-0	BS 34-0
4	14	15 Amps	BK 44-0	BS 44-0

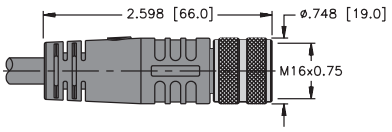
See page 33 for dimensional drawings.

* Note: Standard coupling nut material is nickel plated brass. Consult factory for nylon and 316 stainless steel options.

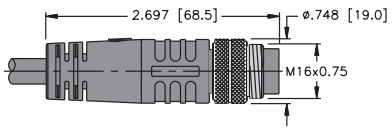
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast Cordset, Receptacle and Field Wireable Dimensions

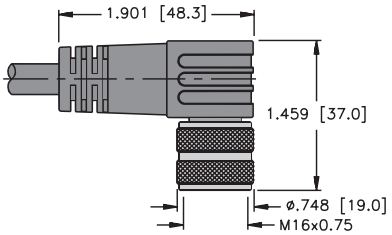
1 **BKM..**



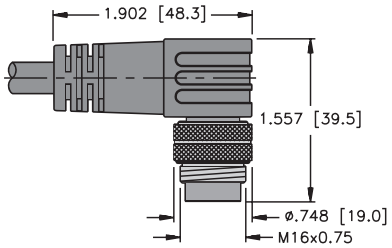
2 **BSM..**



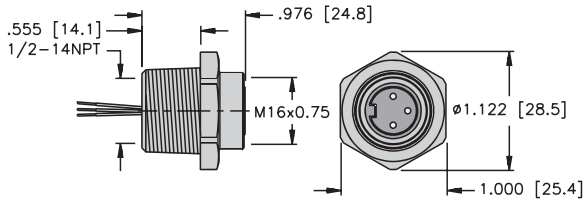
3 **BKWM..**



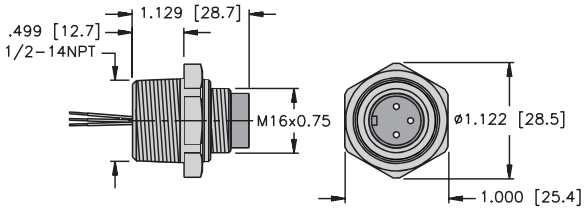
4 **BSWM..**



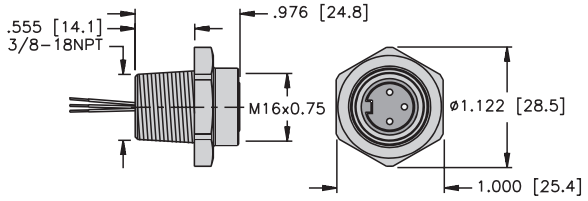
5 **BKF..*/14.5/NPT**



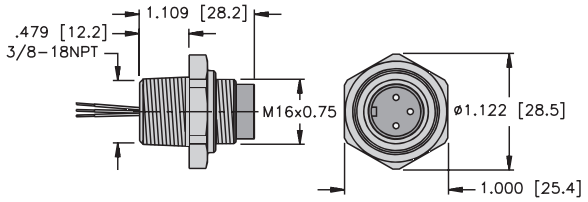
6 **BSF..*/14.5/NPT**



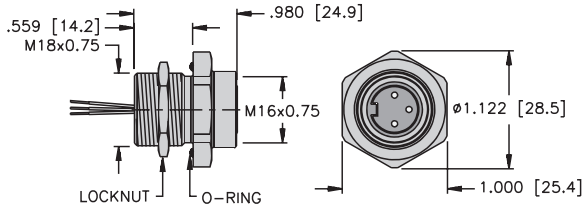
7 **BKF..*/18.375/NPT**



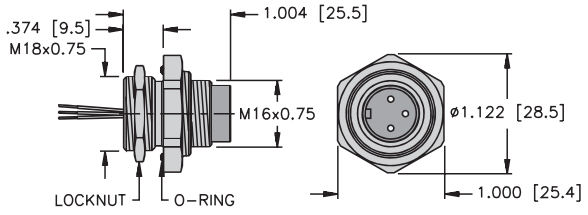
8 **BSF..*/18.375/NPT**



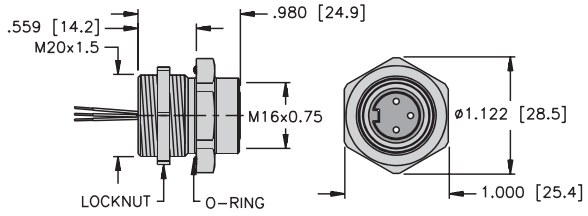
9 **BKF..*/M18**



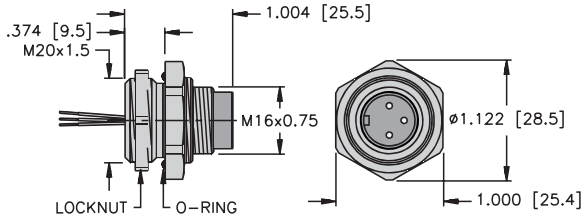
10 **BSF..*/M18**



11 **BKF..*/M20**



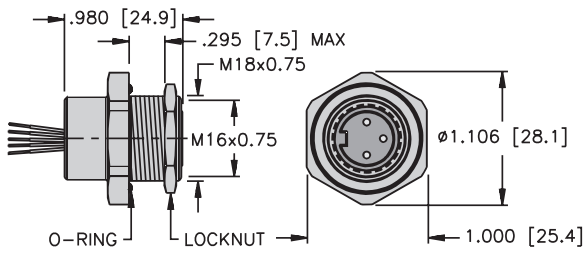
12 **BSF..*/M20**



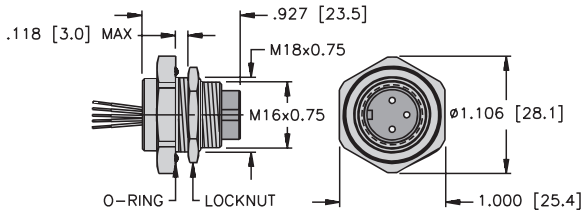
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast Cordset, Receptacle and Field Wireable Dimensions

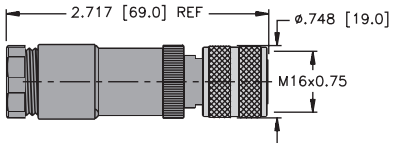
13 **BKFD..*/M18**



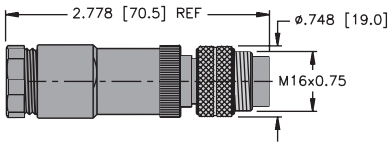
14 **BSFD..*/M18**



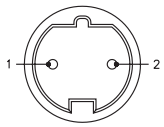
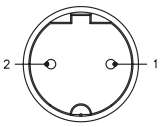
15 **BK..**



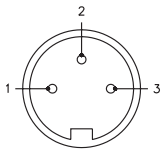
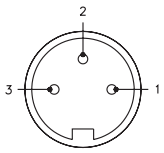
16 **BS..**



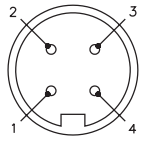
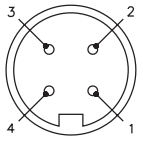
M16 Powerfast Cordset, Receptacle and Field Wireable Pinouts

2-Pin	
Female	Male
	

Pinouts
1. WH 2. BK

3-Pin	
Female	Male
	

Pinouts
1. WH 2. GN 3. BK

4-Pin	
Female	Male
	

Pinouts
1. WH 2. GN 3. BK 4. RD

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

M16 Powerfast Tee Specifications

Mechanical

Mold material/color:	PUR/Black
Contact carrier material:	PUR
Housing material/plating:	
Standard:	Nickel plated brass
Additional options:	Nylon 316 stainless steel
Environmental protection:	IEC IP67
Temperature rating:	
Integral connector version:	-40 °C to +105 °C (-40 °F to +221 °F)
Cable version:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	TC-ER PVC/Black
Ratings:	15-18 Amps, 600 V

M16 Powerfast Tee Selection Matrix

			17	18	19	20
			Integral M16 Power Connector Drop	**Cable Drop with M16 Power Connector**	**Cable Trunk and Cable Drop with M16 Power Connectors**	**Cable Drop**
Pins	**AWG**	**Current Rating**		**TC-ER**	**TC-ER**	**TC-ER**
2	12	18 Amps	BSM/2BKM 22	BSM/2BKM 22-380-*	BSM/2BKM 22-380-*/*/*	BSM/BKM/T22-380-*
3	14	15 Amps	BSM/2BKM 34	BSM/2BKM 34-198-*	BSM/2BKM 34-198-*/*/*	BSM/BKM/T34-198-*
4	14	15 Amps	BSM/2BKM 44	BSM/2BKM 44-193-*	BSM/2BKM 44-193-*/*/*	BSM/BKM/T44-193-*

M16 Powerfast h-Style Tee Selection Matrix

			21	22	23	24
Trunk #1: Male Connector			**Integral M16 Power Connector Drop**	**Cable Drop with M16 Power Connector**	**Cable Trunk and Cable Drop with M16 Power Connectors**	**Cable Drop**
Pins	**AWG**	**Current Rating**		**TC-ER**	**TC-ER**	**TC-ER**
2	12	18 Amps	SH-BSM/2BKM 22	SH-BSM/2BKM 22-380-*	SH-BSM/2BKM 22-380-*/*/*	SH-BSM/BKM/T22-380-*
3	14	15 Amps	SH-BSM/2BKM 34	SH-BSM/2BKM 34-198-*	SH-BSM/2BKM 34-198-*/*/*	SH-BSM/BKM/T34-198-*
4	14	15 Amps	SH-BSM/2BKM 44	SH-BSM/2BKM 44-193-*	SH-BSM/2BKM 44-193-*/*/*	SH-BSM/BKM/T44-193-*

			25	26	27	28
Trunk #2: Male Connector			**Integral M16 Power Connector Drop**	**Cable Drop with M16 Power Connector**	**Cable Trunk and Cable Drop with M16 Power Connectors**	**Cable Drop**
Pins	**AWG**	**Current Rating**		**TC-ER**	**TC-ER**	**TC-ER**
2	12	18 Amps	SH-BKM/BSM/BKM 22	SH-BKM/BSM/BKM 22-380-*	SH-BKM/BSM/BKM 22-380-*/*/*	SH-BKM/BSM/T22-380-*
3	14	15 Amps	SH-BKM/BSM/BKM 34	SH-BKM/BSM/BKM 34-198-*	SH-BKM/BSM/BKM 34-198-*/*/*	SH-BKM/BSM/T34-198-*
4	14	15 Amps	SH-BKM/BSM/BKM 44	SH-BKM/BSM/BKM 44-193-*	SH-BKM/BSM/BKM 44-193-*/*/*	SH-BKM/BSM/T44-193-*

We reserve the right to make technical alterations without prior notice.

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

2 and 3-Wire Receptacles, Front Mount, 1/4-18 NPT Threads

			29	30	31
Trunk #1: Male Connector			**Integral M16 Power Connector Drop**	**Cable Drop with M16 Power Connector**	**Cable Trunk and Cable Drop with M16 Power Connectors**
Pins	**AWG**	**Current Rating**		**TC-ER**	**TC-ER**
2	12	18 Amps	BH-BSM/3BKM 22	BH-BSM/3BKM 22-380-*	BH-BSM/3BKM 22-380-*/*/*/*
3	14	15 Amps	BH-BSM/3BKM 34	BH-BSM/3BKM 34-198-*	BH-BSM/3BKM 34-198-*/*/*/*
4	14	15 Amps	BH-BSM/3BKM 44	BH-BSM/3BKM 44-193-*	BH-BSM/3BKM 44-193-*/*/*/*

			32	33	34
Trunk #1: Male Connector			**Integral M16 Power Connector Drop**	**Cable Drop with M16 Power Connector**	**Cable Trunk and Cable Drop with M16 Power Connectors**
Pins	**AWG**	**Current Rating**		**TC-ER**	**TC-ER**
2	12	18 Amps	BH-BKM/BSM/2BKM 22	BH-BKM/BSM/2BKM 22-380-*	BH-BKM/BSM/2BKM 22-380-*/*/*/*
3	14	15 Amps	BH-BKM/BSM/2BKM 34	BH-BKM/BSM/2BKM 34-198-*	BH-BKM/BSM/2BKM 34-198-*/*/*/*
4	14	15 Amps	BH-BKM/BSM/2BKM 44	BH-BKM/BSM/2BKM 44-193-*	BH-BKM/BSM/2BKM 44-193-*/*/*/*

See pages 35-40 for dimensional drawings.

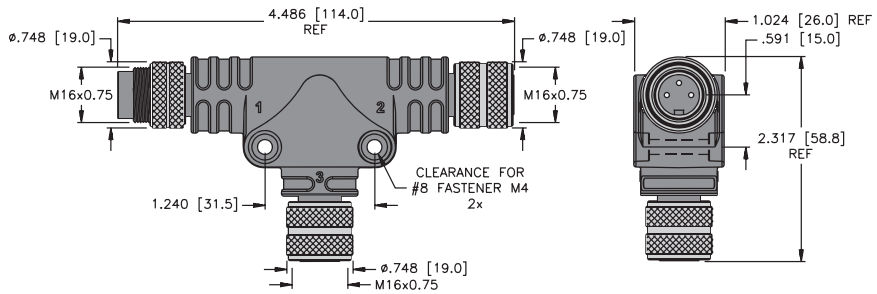
* Length in meters. Standard cable lengths are 2, 5 and 10 meters. Consult factory for other lengths.
Note: Standard coupling nut material is nickel plated brass. Consult Part Number Key (page 27) for nylon and 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

M16 Powerfast Tee Dimensions

17

Integral M16 Power Connector Drop
BSM/2BKM..

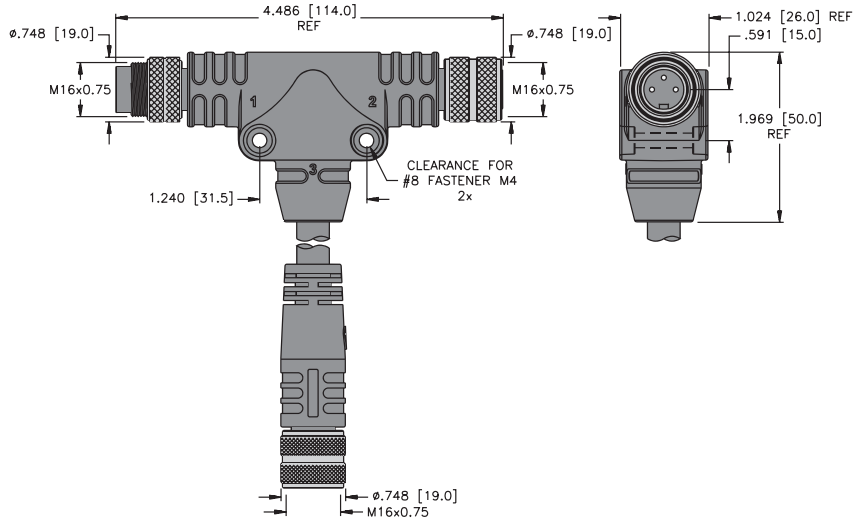


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast Tee Dimensions

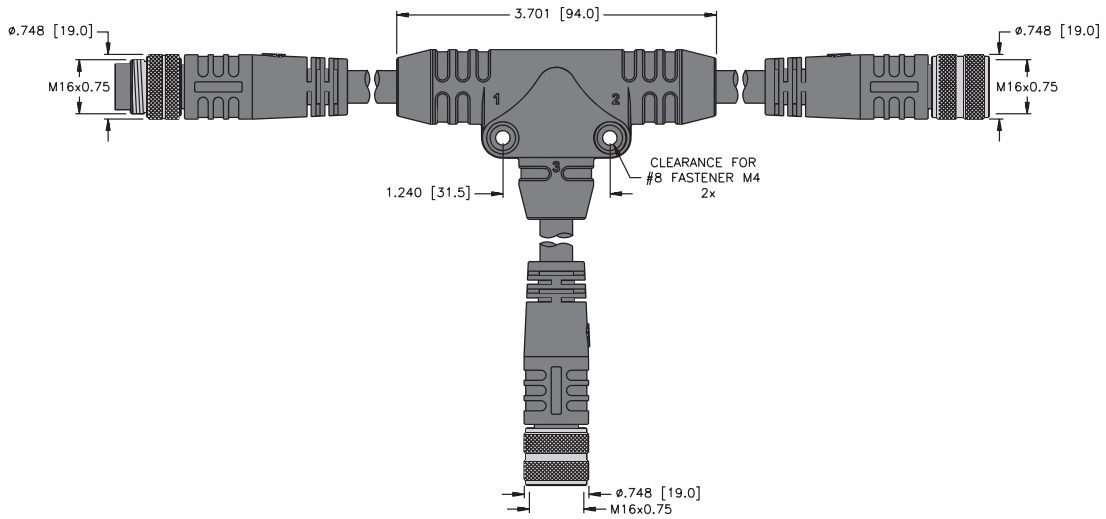
18

Cable Drop with M16 Power Connector
BSM/2BKM..



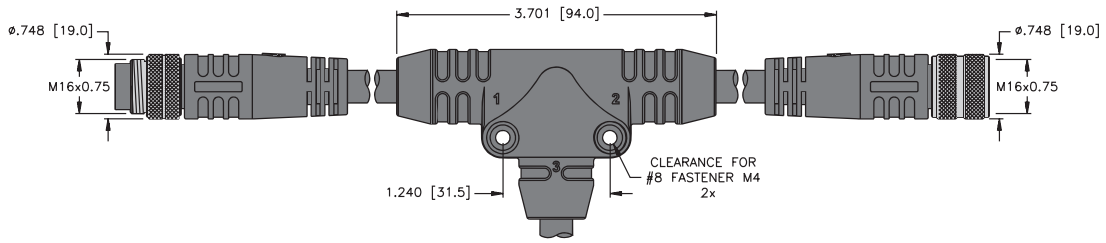
19

Cable Trunk and Cable Drop with M16 Power Connectors
BSM/2BKM..



20

Cable Drop
BSM/BKM/T..

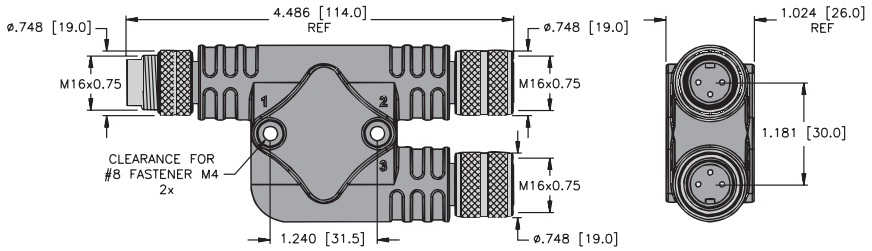


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast h-Style Tee Dimensions

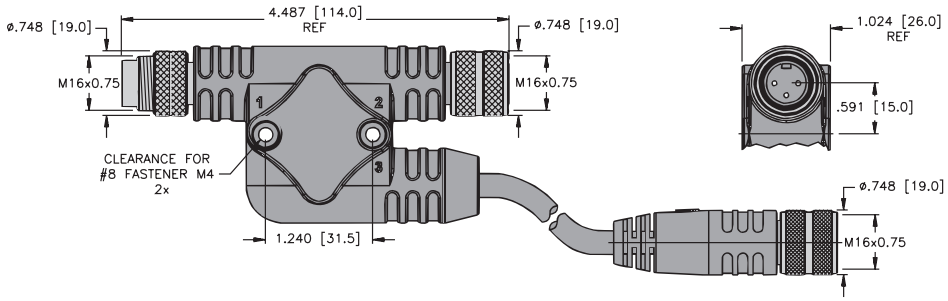
21

Integral M16 Power Connector Drop, Trunk #1 Male
SH-BSM/2BKM..



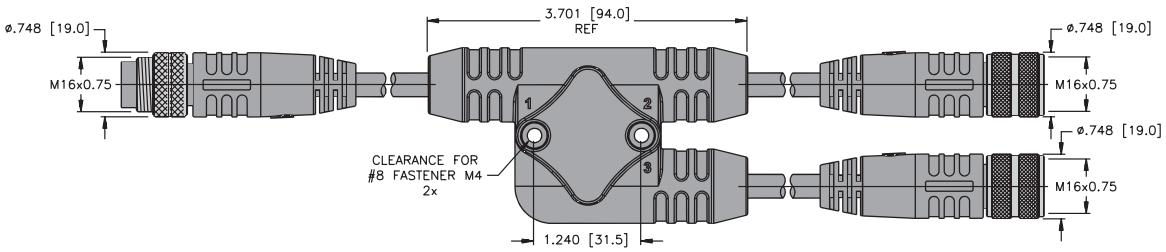
22

Cable Drop with M16 Power Connector, Trunk #1 Male
SH-BSM/2BKM..



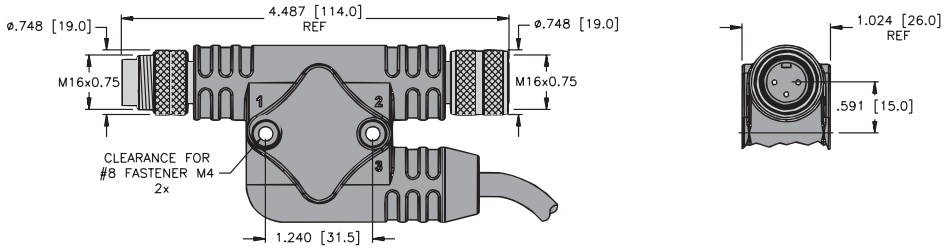
23

Cable Trunk and Cable Drop with M16 Power Connectors, Trunk #1 Male
SH-BSM/2BKM..



24

Cable Drop, Trunk #1 Male
SH-BSM/BKM/T..

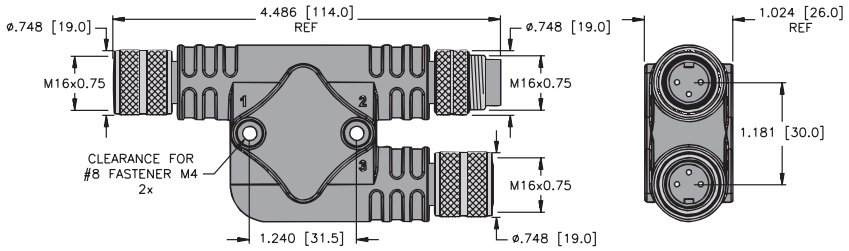


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast h-Style Tee Dimensions

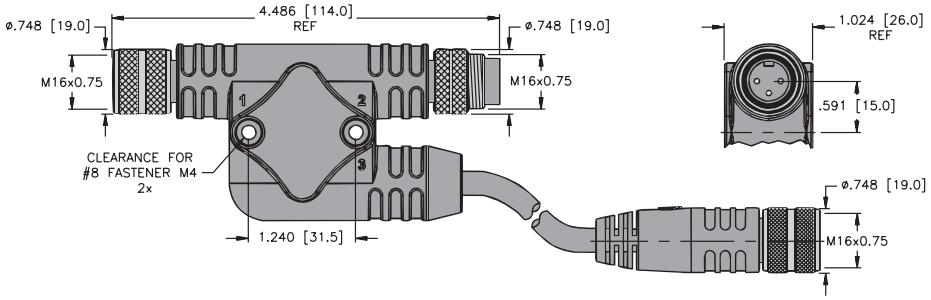
25

Integral M16 Power Connector Drop, Trunk #2 Male
SH-BKM/BSM/BKM..



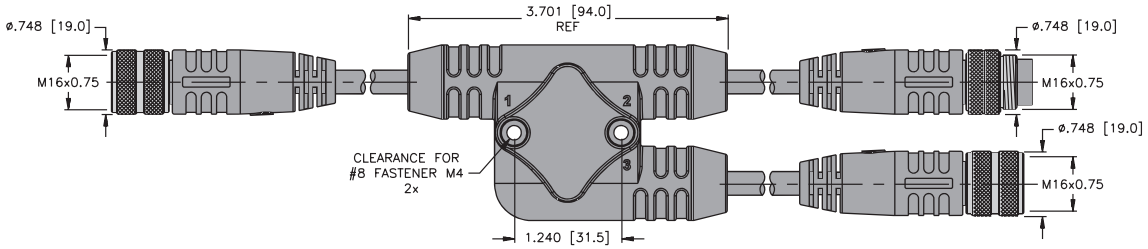
26

Cable Drop with M16 Power Connector, Trunk #2 Male
SH-BKM/BSM/BKM..



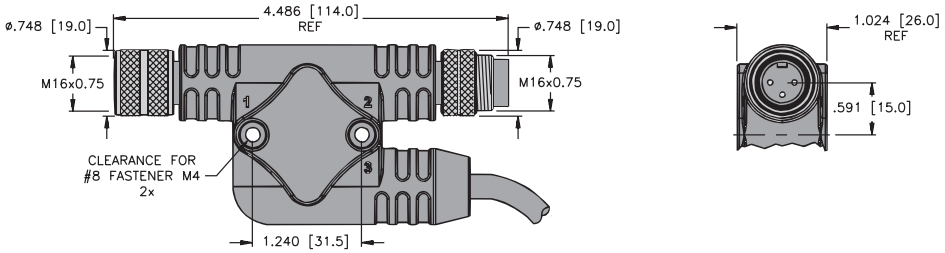
27

Cable Trunk and Cable Drop with M16 Power Connectors, Trunk #2 Male
SH-BKM/BSM/BKM..



28

Cable Drop, Trunk #2 Male
SH-BKM/BSM/T..

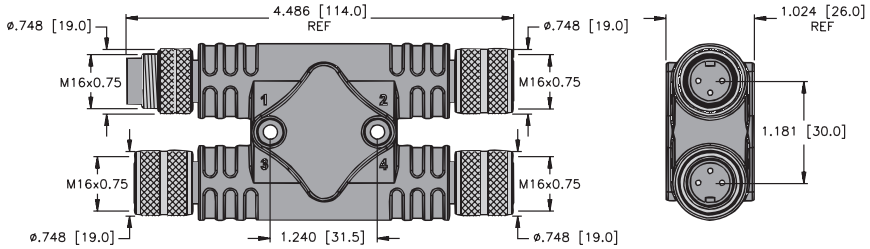


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast H-Style Tee Dimensions

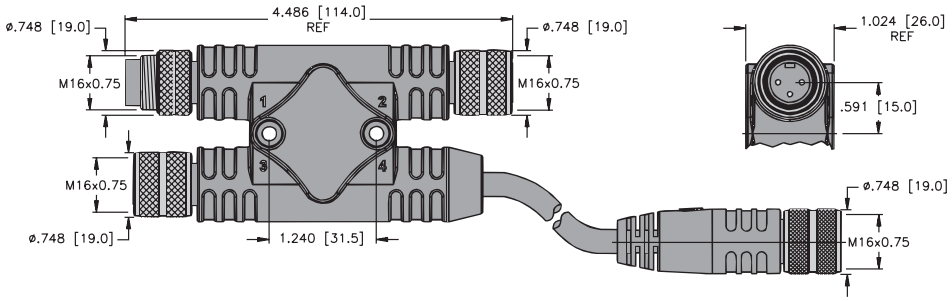
29

Integral M16 Power Connector Drop, Trunk #1 Male
BH-BSM/3BKM..



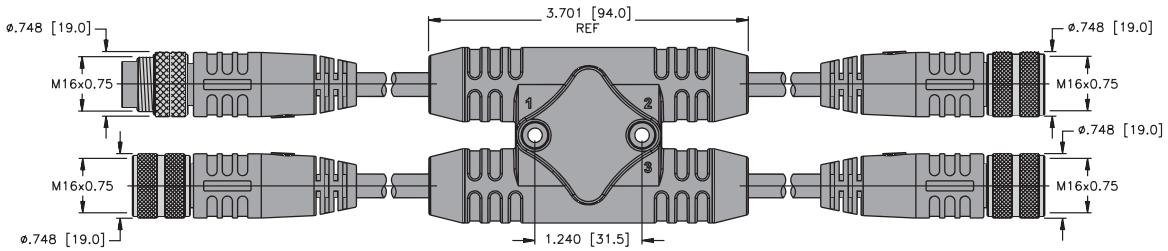
30

Cable Drop with M16 Power Connector, Trunk #1 Male
BH-BSM/3BKM..



31

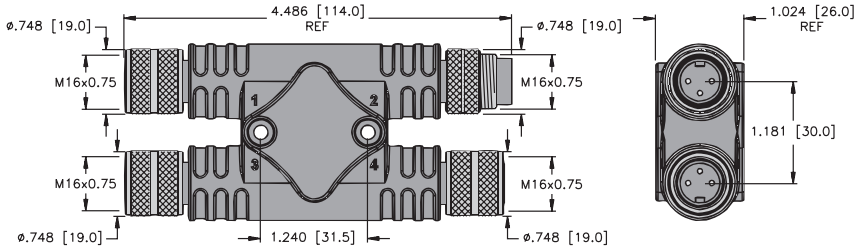
Cable Trunk and Cable Drop with M16 Power Connectors, Trunk #1 Male
BH-BSM/3BKM..



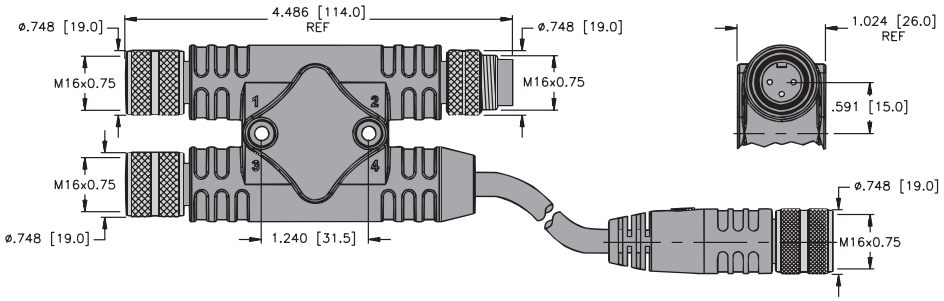
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast H-Style Tee Dimensions

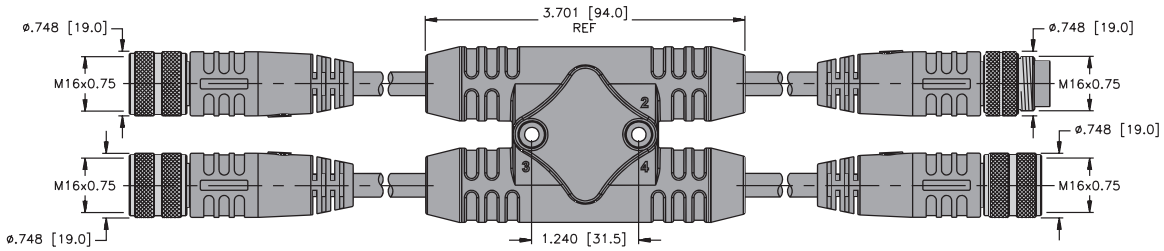
32 **Integral M16 Power Connector Drop, Trunk #2 Male**
BH-BKM/BSM/2BKM..



33 **Cable Drop with M16 Power Connector, Trunk #2 Male**
BH-BKM/BSM/2BKM..

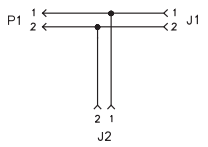
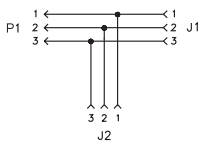
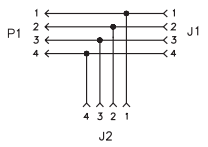


34 **Cable Trunk and Cable Drop with M16 Power Connectors, Trunk #2 Male**
BH-BKM/BSM/2BKM..

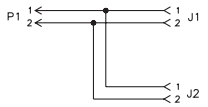
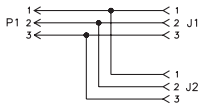
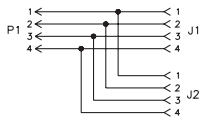


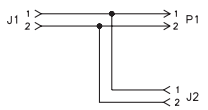
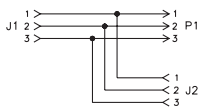
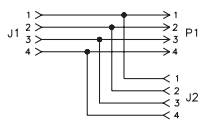
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M16 Powerfast Tee Wiring Diagrams

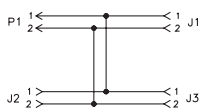
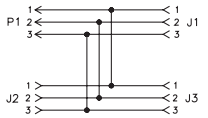
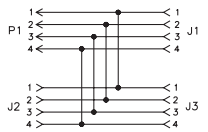
2-Pin	3-Pin	4-Pin
		

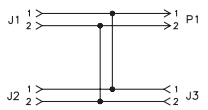
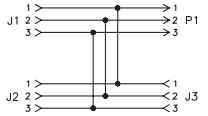
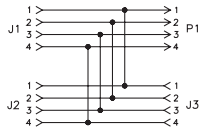
M16 Powerfast h-Style Tee Wiring Diagrams

Trunk #1 Male, 2-Pin	Trunk #1 Male, 3-Pin	Trunk #1 Male, 4-Pin
		

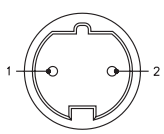
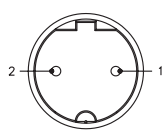
Trunk #2 Male, 2-Pin	Trunk #2 Male, 3-Pin	Trunk #2 Male, 4-Pin
		

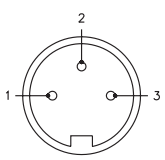
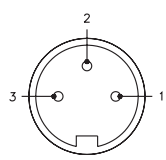
M16 Powerfast H-Style Tee Wiring Diagrams

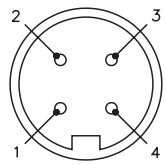
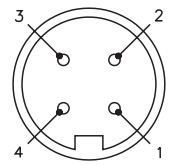
Trunk #1 Male, 2-Pin	Trunk #1 Male, 3-Pin	Trunk #1 Male, 4-Pin
		

Trunk #2 Male, 2-Pin	Trunk #2 Male, 3-Pin	Trunk #2 Male, 4-Pin
		

M16 Powerfast Tee Pinouts

3-Pin	
Female	Male
	

4-Pin	
Female	Male
	

4-Pin	
Female	Male
	

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

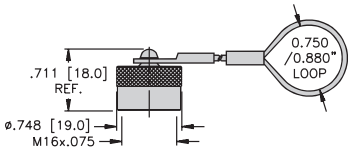
M16 Powerfast Closure Cap Selection Matrix

		35	36	37	38	39	40
		Mates to male cordsets and receptacles	Mates to female cordsets and receptacles	Mates to male receptacles	Mates to female receptacles	Mates to male cordsets and receptacles	Mates to female cordsets and receptacles
Material	**Thread**	**6" SS Loop Lanyard**	**6" SS Loop Lanyard**	**6" SS Lanyard with Eyelet**	**6" SS Lanyard with Eyelet**	**No Lanyard**	**No Lanyard**
Nickel Plated Brass	M16	BKM-CC	BSM-CC	BKF-CC	BSK-CC	BKM-MC	BSM-MC

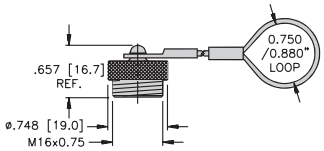
See table below for dimensional drawings.

M16 Powerfast Closure Cap Dimensions

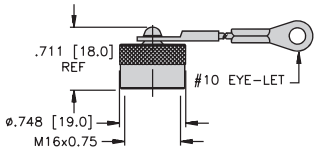
35 **GKDM-CC**



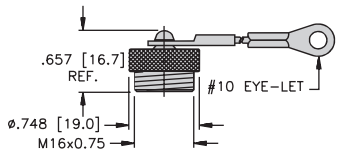
36 **GSDM-CC**



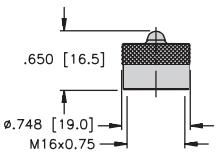
37 **GKDF-CC**



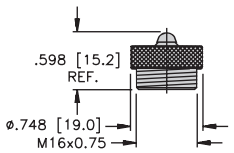
38 **GSDF-CC**



39 **GKDM-MC**



40 **GSDM-MC**



M16 Powerlok

Part Number	Application
LOCK-M16	Nylon locking guard for straight M16 Powerfast connectors
LOCK-M16-TEE	

M16 Powerlok Open

M16 Powerlok Closed

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

Part Number Keys	J44
Cordset and Receptacle Specifications	J45
Cordset and Receptacle Selection Matrix	J46
Cordset and Receptacle Dimensions	J47
Cordset and Receptacle Pinouts	J48

Features

- Options for combination of power and signal wires in one cable
- Shielded versions available
- 6 to 9-pin
- 12 to 14 AWG conductors for power, 18 AWG conductors for signal
- Up to 30 Amp, 600 Volt rated for power
- Up to 8 Amp, 300 Volt rated for signal
- AWM or tray rated-exposed run PVC cable
- IEC IP67 protection

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

M23 Powerfast Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

B	S	M		34-198	-	*	/S..

M23 (23 mm) Powerfast Cordset

Gender

K	=	female contact holder, female threads
S	=	male contact holder, female threads
SS	=	male contact holder, male threads

Configuration

M	=	straight
WM	=	right angle
(blank)	=	straight assembled connector

Coupling Nut Material

(blank)	=	nickel plated brass
V	=	stainless steel
S	=	shielded

Varieties

(blank)	=	PVC jacket
/S90	=	PUR jacket

Length in Meters

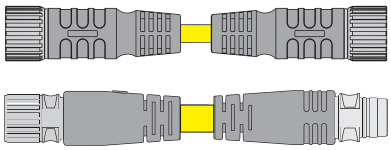
Number of Wires / AWG / Color Codes

64-078	=	6x14 AWG WH, RD, GN, OG, BK, BU
74-079	=	7x14 AWG WH/BK, BK, WH, RD, OG, BU, GN
94-080	=	3x14 & 6X18 AWG RD, WH, WH/BK, BU, OG, BK, GN/BK, GN, RD/BK
622-059	=	6x12 AWG BU, RD, GN, BN, OG, YE
822-287	=	4x12 & 4X18 AWG BU, GN, WH, BK, OG, RD, WH/BK, RD/BK
622-286	=	6x12 AWG BU, RD, GN, BN, OG, YE
822-288	=	4x12 & 4X18 AWG BU, GN, WH, BK, OG, RD, WH/BK, RD/BK

Insertion Point of Extension Cable Second Prefix*

* Male connector listed first, female connector second
Example: CSM CKM 64-078-1

Extension Examples



C	K	M		C	K	M		74-079	-	*	/S..
C	SS	M		C	K	M		622-059	-	*	/S..

M23 Powerfast Receptacle Part Number Key

C	K	F		64-6	-	*	/M20

M23 (23 mm) Powerfast Cordset

Gender

K	=	female contact holder, male threads
S	=	male contact holder, male threads

Designator for Receptacle

Connection Thread

/M20	=	M20x1.5 threads

Length in Meters

Number of Wires / AWG / Color Codes

64-6	=	6x14 AWG WH, RD, GN, OG, BK, BU
74-7	=	7x14 AWG WH/BK, BK, WH, RD, OG, BU, GN
94-9	=	3x14 & 6X18 AWG RD, WH, WH/BK, BU, OG, BK, GN/BK, GN, RD/BK
622-6	=	6x12 AWG BU, RD, GN, BN, OG, YE
822-8	=	4x12 & 4X18 AWG BU, GN, WH, BK, OG, RD, WH/BK, RD/BK

Number of Wires / AWG / Color Codes

(blank)	=	front mount
D	=	rear mount
F	=	flange
MF	=	flange, rotating coupling nut
L	=	front mount, long threads

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

M23 Powerfast Single Keyway Cordset Specifications

Mechanical

Mold material/color:	PUR/Black
Contact carrier material:	Nylon or PBT
Coupling nut material:	
Standard:	Nickel plated brass
Additional options:	316 stainless steel
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +105 °C (-40 °F to +221 °F)

Electrical

Contact material:	Brass with gold plating
Cable jacket material/color:	PVC/Yellow
Ratings:	
Power:	20 Amps, 300 V
Signal:	8 Amps, 150 V

M23 Powerfast 3-Key Cordset Specifications

Mechanical

Mold material/color:	PUR/Black
Contact carrier material:	Nylon or PBT
Coupling nut material:	
Standard:	Nickel plated brass
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass with gold plating
Cable jacket material/color:	TC-ER PVC/Yellow
Ratings:	
Power:	30 Amps, 600 V
Signal:	9 Amps, 300 V

M23 Powerfast Single Keyway Receptacle Specifications

Mechanical

Contact carrier material:	Nylon or PBT
Housing material/plating:	
Standard:	Nickel plated brass
Additional options:	316 stainless steel
Environmental protection:	IEC IP67
Temperature rating:	-30 to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass with gold plating
Conductor insulation:	PVC
Ratings:	
Power:	20 Amps, 300 V
Signal:	8 Amps, 150 V

M23 Powerfast 3-Key Receptacle Specifications

Mechanical

Contact carrier material:	Nylon or PBT
Housing material/plating:	
Standard:	Zinc die-cast, chromated
Environmental protection:	IEC IP67
Temperature rating:	-30 to +80 °C (-40 °F to +176 °F)

Electrical

Contact material:	Brass with gold plating
Conductor insulation:	PVC
Ratings:	
Power:	30 Amps, 600 V
Signal:	9 Amps, 300 V

We reserve the right to make technical alterations without prior notice.

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

M23 Powerfast Single Keyway Cordset Selection Matrix

			1	2	3
			Straight Female	Straight Male	Straight Male
Pins	**AWG**	**Current Rating**	**Single Keyway**	**Single Keyway**	**Single Keyway**
6	14	20 Amps	CKM 64-078-*	CSM 64-078-*	CSSM 64-078-*
7	14	20 Amps	CKM 74-079-*	CSM 74-079-*	CSSM 74-079-*
9	3x14; 6x18	8 Amps (1-3,5,7,9), 20 Amps (4,6,8)	CKM 94-080-*	CSM 94-080-*	CSSM 94-080-*

M23 Powerfast 3-Key Cordset Selection Matrix

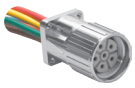
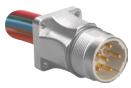
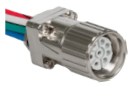
			4	5	6	7
			Straight Female	Straight Male	Right Angle Female	Right Angle Male
Pins	**AWG**	**Current Rating**	**3-Key**	**3-Key**	**3-Key**	**3-Key**
6	12	30 Amps	CKM 622-059-*	CSSM 622-059-*	CKWM 622-059-*	CSSWM 622-059-*
8	4x12; 4x18	9 Amps (A-D), 30 Amps (1-4)	CKM 822-287-*	CSSM 822-287-*	CKWM 822-287-*	CSSWM 822-287-*

Pins	**AWG**	**Current Rating**	**Shielded 3-Key**	**Shielded 3-Key**	**Shielded 3-Key**	**Shielded 3-Key**
6	12	30 Amps	CKMS 622-286-*	CSSMS 622-286-*	CKWMS 622-286-*	CSSWMS 622-286-*
8	4x12; 4x18	9 Amps (A-D), 30 Amps (1-4)	CKMS 822-288-*	CSSMS 822-288-*	CKWMS 822-288-*	CSSWMS 822-288-*

M23 Powerfast Single Keyway Receptacle Selection Matrix

Front Mount			8	9	10	11
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**M20 Mount, Standard Thread**	**M20 Mount, Standard Thread**	**M20 Mounting, Long Thread**	**M20 Mounting, Long Thread**
6	14	20 Amps	CKF 64-6-*	CSF 64-6-*	CKFL 64-6-*	CSFL 64-6-*
7	14	20 Amps	CKF 74-7-*	CSF 74-7-*	CKFL 74-7-*	CSFL 74-7-*
9	3x14; 6x18	8 Amps (1-3,5,7,9), 20 Amps (4,6,8)	CKF 94-9-*	CSF 94-9-*	CKFL 94-9-*	CSFL 94-9-*

M23 Powerfast 3-Key Receptacle Selection Matrix

Front Mount			12 	13 	14 	15
			Female	Male	Female	Male
Pins	**AWG**	**Current Rating**	**Flange Mount**	**Flange Mount**	**M20 Mounting Thread**	**M20 Mounting Thread**
6	12	30 Amps	CKFMF 622-6-*	CSFF 622-6-*	CKFMF 622-6-*/M20	CSFF 622-6-*/M20
8	4x12; 4x18	9 Amps (A-D), 30 Amps (1-4)	CKFMF 822-8-*	CSFF 822-8-*	CKFMF 822-8-*/M20	CSFF 822-8-*/M20

See pages 47-48 for dimensional drawings.

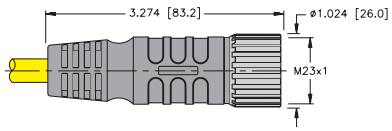
* Length in meters. Standard cable lengths are 2, 5 and 10 meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Note: Extension cables are available, please consult Part Number Key (page 42).
Standard coupling nut and housing material is nickel plated brass. Consult Part Number Key (page 42) for 316 stainless steel options.

We reserve the right to make technical alterations without prior notice.

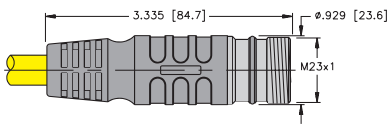
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M23 Powerfast Single Keyway Cordset Dimensions

1 & 2 **CKM (CSM)..**

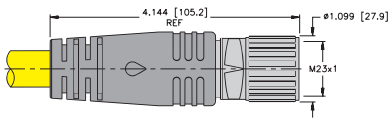


3 **CSSM..**

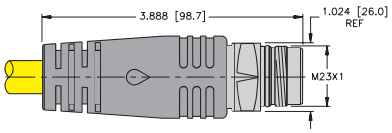


M23 Powerfast 3-Key Cordset Dimensions

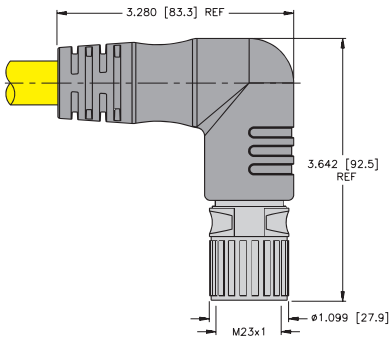
4 **CKM..**



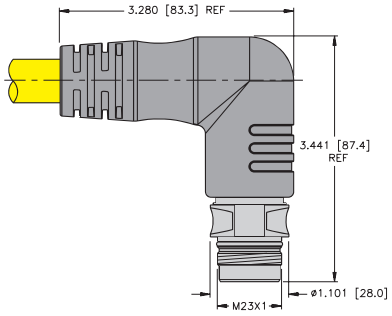
5 **CSSM..**



6 **CKWM..**

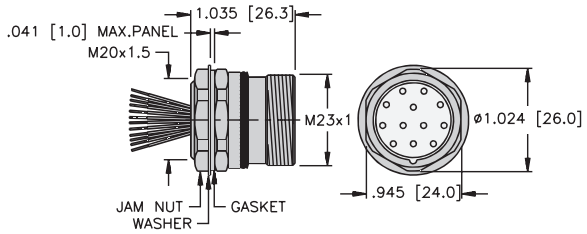


7 **CSSWM..**

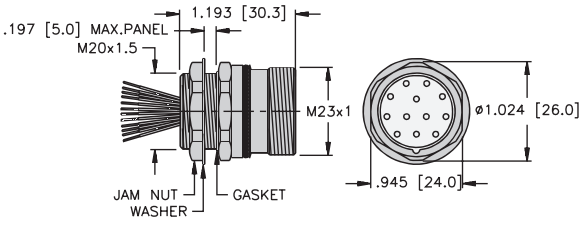


M23 Powerfast Single Keyway Receptacle Dimensions

8 & 9 **CKF (CSF)..**



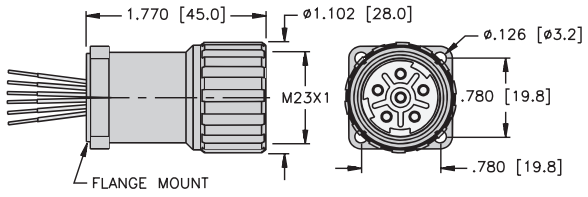
10 & 11 **CKFL (CSFL) ..**



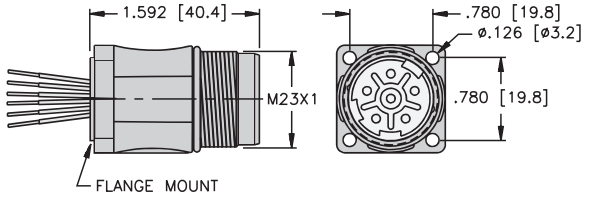
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M23 Powerfast 3-Key Receptacle Dimensions

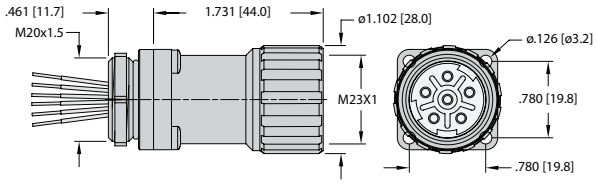
12 **CKFMF..**



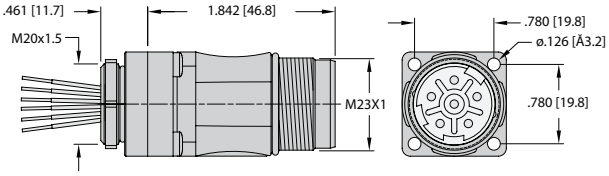
13 **CSFF..**



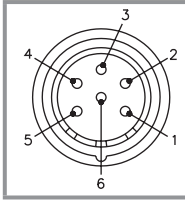
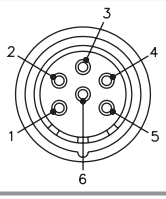
14 **CKFMF...../M20**



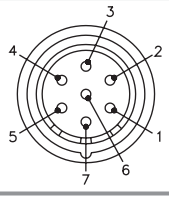
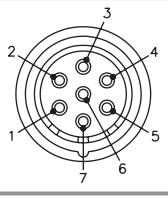
15 **CSFF.../M20**



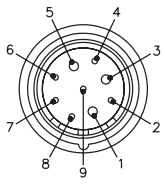
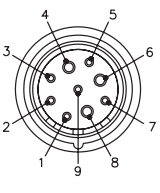
M23 Powerfast Single Keyway Cordset and Receptacle Pinouts

6-Pin	
Female	Male
	

Pinouts
1. WH
2. RD
3. GN
4. OG
5. BK
6. BU

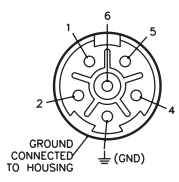
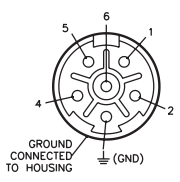
7-Pin	
Female	Male
	

Pinouts
1. WH/BK
2. BK
3. WH
4. RD
5. OG
6. BU
7. GN

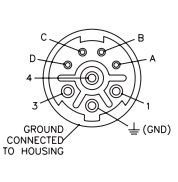
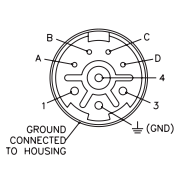
9-Pin	
Female	Male
	

Pinouts
1. RD
2. WH
3. WH/BK
4. BU
5. OG
6. BK
7. GN/BK
8. GN
9. RD/BK

M23 Powerfast 3-Key Cordset and Receptacle Pinouts

6-Pin, 3-Key	
Female	Male
	

Pinouts
1. BU
2. RD
3. GN
4. BN
5. OG
6. YE

8-Pin, 3-Key	
Female	Male
	

Pinouts
1. BU
2. GN
3. WH
4. BK
A. OG
B. RD
C. WH/BK
D. RD/BK

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

Part Number Keys	J50
Cordset and Receptacle Specifications	J51
Cordset and Receptacle Selection Matrix	J51
Cordset and Receptacle Dimensions	J52
Cordset and Receptacle Pinouts	J52
h-Style Tee, Jumper Plug and Extension Specifications	J53
h-Style Tee, Jumper Plug and Extension Matrix	J54
h-Style Tee, Jumper Plug and Extension Dimensions	J55
h-Style Tee, Jumper Plug and Extension Pinouts	J55

Features

- Options for combination of power & signal wires in one cable
- 8 AWG conductors for power
- 14 AWG and 18 AWG conductor options for signal
- Up to 35 Amp, 250 and 600 volt rated

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

M40 Powerfast Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

H	S	M			4	8	0	0	-	1279	-	*	/S..

M40 Powerfast Cordset

Gender

K = female connector, female threads
S = male connector, male threads

M = molded connector
(blank) = assembled connector

Shielding

S = shield tied to coupling nut

Housing Material

(blank) = nickel plated brass

Insertion Point for Second Connector*

* Male connector listed first, female connector second
Example: HSM HKM 4800-1279-5

Number of Power Wires

4 = 4 wires connected to power pins
3 = 3 wires connected to power pins

Color Codes / Cable Type

8 = 8 AWG wire to power pins
0 = 10 AWG wire to power pins

Color Codes / Cable Type

0 = no connection to control pins
2 = 2 control pins connected
4 = 4 control pins connected

Gauge of Control Wires

0 = no connection or 20 AWG wire to control wins
4 = 14 AWG Wire to control pins
6 = 16 AWG wire to control pins
8 = 18 AWG wire to control pins

Color Codes / Cable Type

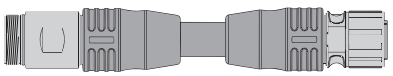
1279 = WH, BK, RD, GN, TC-ER TPE Black
1313 = WH, BK, RD, GN, TC-ER TPE Yellow
1314 = WH, BK, RD, GN, BK, WH, BN, BU, TC-ER TPE Black
1884 = BK"V", BK"U", BK"W". BU/YE"+", BU/YE"-", GN/YE, TC-ER/STOOW, PVC Black

Length in Meters

Varieties

/S… = consult factory
/CS… = consult factory

Extension Examples



H	S	M	H	K	M	4	8	0	0	-	1279	-	*	/S..

M23 Powerfast Receptacle Part Number Key

H	S	F	F	4	8	0	0	-	*	/S..

M40 Powerfast Receptacle

Gender

K = female connector, female threads
S = male connector, male threads

Designator for Receptacles

Mounting Style

F = flange
MF flange, rotating coupling nut

Number of Power Wires

4 = 4 wires connected to power pins
3 = 3 wires connected to power pins

Gauge of Power Wires

8 = 8 AWG wire to power pins
0 = 10 AWG wire to power pins

Number of Control Wires

0 = no connection to control pins
2 = 2 control pins connected
4 = 4 control pins connected

Gauge of Control Wires

0 = no connection or 20 AWG wire to control pins
4 = 14 AWG wire to control pins
6 = 16 AWG wire to control pins
8 = 18 AWG wire to control pins

Length in Meters

Varieties

/S… = consult factory
/CS… = consult factory

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

M40 Powerfast Cordset Specifications

Mechanical

Mold material/color:	Polyamide/Black
Contact carrier material:	Nylon
Coupling nut material	Nickel plated brass
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Cable jacket material/color:	TC-ER PVC
Ratings:	
Power:	35 Amps, 600 VAC
Signal:	4-9 Amps, 250 VAC

c UL us LISTED

M40 Powerfast Receptacle Specifications

Mechanical

Contact carrier material:	Nylon
Housing material/plating:	Nickel plated brass
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +105 °C (-40 °F to +221 °F)

Electrical

Contact material:	Brass or copper with gold plating
Conductor insulation:	PVC
Ratings:	
Power:	35 Amps, 600 VAC
Signal:	4-9 Amps, 250 VAC

c UL us LISTED

We reserve the right to make technical alterations without prior notice.

M40 Powerfast Cordset Selection Matrix

Front Mount			1	2	3	4
Pins	**AWG**	**Current Rating**	**Straight Female**	**Straight Male**	**Right Angle Female**	**Right Angle Male**
4	8	35 Amps	HKM 4800-1279-*	HSM 4800-1279-*	HKWM 4800-1279-*	HSWM 4800-1279-*
6	4x8; 2x14	35 Amps (8 AWG), 9 Amps (14 AWG)	HKM 4824-1884-*	HSM 4824-1884-*	HKWM 4824-1884-*	HSWM 4824-1884-*
8	4x8; 4x18	35 Amps (8 AWG), 4 Amps (18 AWG)	HKM 4848-1314-*	HSM 4848-1314-*	HKWM 4848-1314-*	HSWM 4848-1314-*

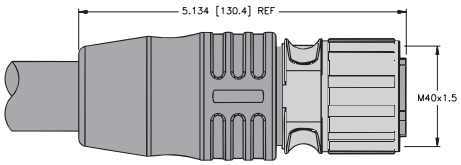
M40 Powerfast Receptacle Selection Matrix

Front Mount			5	6
			Female	**Male**
Pins	**AWG**	**Current Rating**	**Flange Mount**	**Flange Mount**
4	8	35 Amps	HKFMF 4800-*	HSFF 4800-*
6	4x8; 2x14	35 Amps (8 AWG), 9 Amps (14 AWG)	HKFMF 4824-*	HSFF 4824-*
8	4x8; 4x18	35 Amps (8 AWG), 4 Amps (18 AWG)	HKFMF 4848-*	HSFF 4848-*

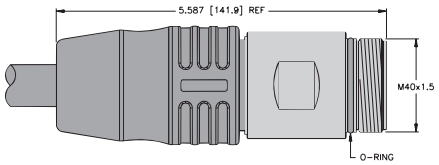
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M40 Powerfast Cordset and Receptacle Dimensions

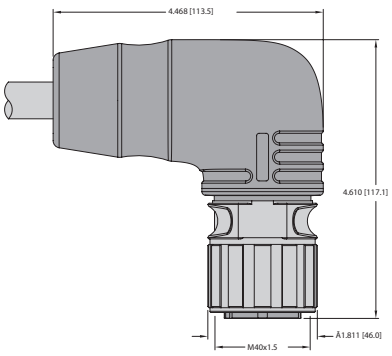
1 **HKM..**



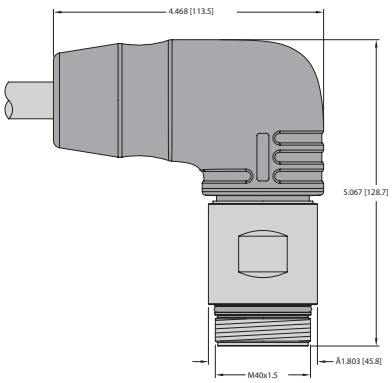
2 **HSM..**



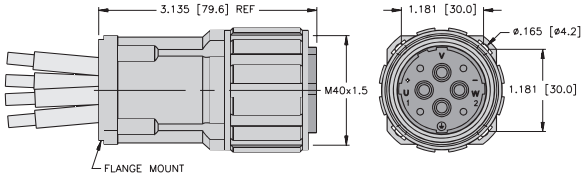
3 **HKWM..**



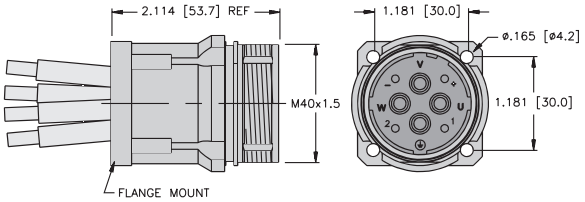
4 **HSWM..**



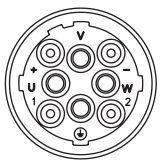
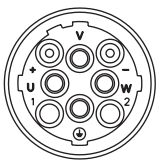
5 **HKFMF..**



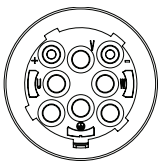
6 **HSFF..**



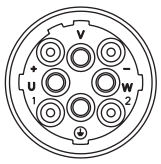
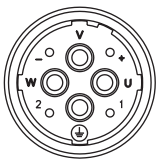
M40 Powerfast Cordset and Receptacle Pinouts

4-Pin	
Female	Male
	

Pinouts
V. WH
U. BK
W. RD
⏚. GN
+. N/C
–. N/C
1. N/C
2. N/C

6-Pin	
Female	Male
	

Pinouts
V. Black V
U. Black U
W. Black W
⏚. GN/YE
+. BU/YE "+"
–. BU/YE "–"

8-Pin	
Female	Male
	

Pinouts
V. WH
U. BK
W. RD
⏚. GN
+. BK
–. BU
1. WH
2. BN

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

M40 Powerfast h-Style Tee Specifications

Mechanical

Mold material/color:	Polyamide/Black
Contact carrier material:	Nylon
Coupling nut material	Nickel plated brass
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Ratings:	
Power:	35 Amps, 600 VAC
Signal:	9 Amps, 250 VAC

c UL us LISTED

M40 Powerfast Jumper Plug Specifications

Mechanical

Mold material/color:	Polyamide/Black
Contact carrier material:	Nylon
Coupling nut material	Nickel plated brass
Environmental protection:	IEC IP67
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	Brass or copper with gold plating
Ratings:	
Power:	35 Amps, 600 VAC
Signal:	9 Amps, 250 VAC

c UL us LISTED

M40 Powerfast to Harting Connector Specifications

Mechanical

Mold material/color:	
M40 connector:	Polyamide/Black
Hood material/color:	
Harting connector:	Zinc die-cast/Black (Harting)
Contact carrier material:	
M40 connector:	Nylon
Harting connector:	Polycarbonate
Coupling nut material:	
M40 connector:	Nickel plated brass
Environmental protection:	
M40 connector:	IEC IP67
Harting connector:	IEC IP65
Temperature rating:	-40 °C to +90 °C (-40 °F to +194 °F)

Electrical

Contact material:	
M40 connector:	Brass or copper with gold plating
Harting connector:	Copper alloy with gold over silver plating
Cable jacket material:	
Standard:	TC-ER STOOW PVC
Additional options:	TC-ER PVC (/S4000 version)
Ratings:	20 Amps, 600 VAC

We reserve the right to make technical alterations without prior notice.

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

M40 Powerfast h-Style Tee Selection Matrix

7

Pins	Drop AWG	Trunk Current Rating	Drop Current Rating	Integral M40 Connector Drop
6	4x8; 2x14	35 Amps (8 AWG), 6 Amps (14 AWG)	35 Amps (8 AWG), 9 Amps (14 AWG)	SH-HSM/2 HKM 4824

M40 Powerfast Jumper Plug Selection Matrix

8

Pins	AWG	Current Rating	Male
6	4x8; 2x14	35 Amps (8 AWG), 9 Amps (14 AWG)	HSM 4824/J+ -

M40 Powerfast to Harting Connector Selection Matrix

9

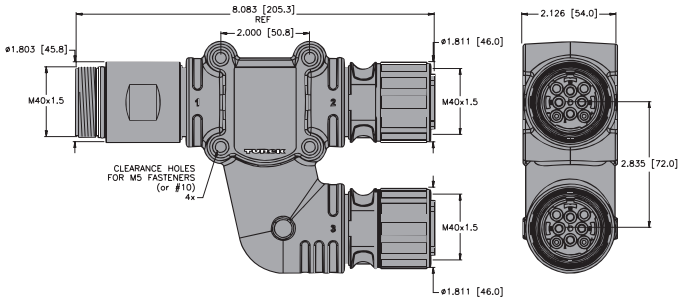
Pins	AWG	Current Rating	TC-ER	TC-ER STOOW
6	4x8; 2x14	20 Amps (12 AWG), 9 Amps (14 AWG)	HSM 40 HANQW4/2-1850-*/S4000	HSM 40 HANQW4/2-1668-*

We reserve the right to make technical alterations without prior notice.

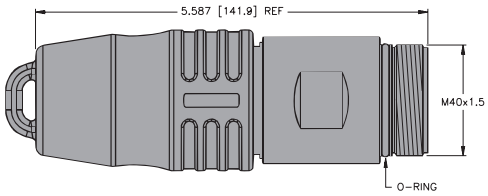
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M40 Powerfast h-Style Tee and Jumper Plug Receptacle Dimensions

7 **SH-HSM-2HKM..**

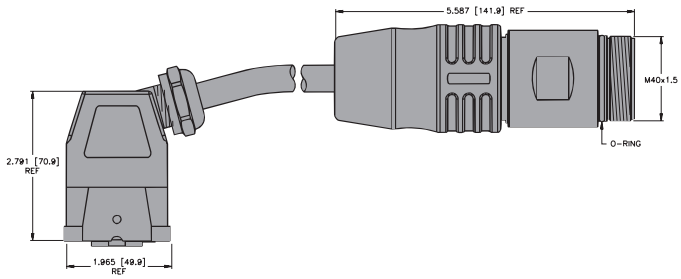


8 **HSM-J..**



M40 Powerfast to Harting Receptacle Dimensions

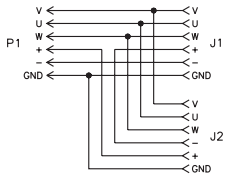
9 **HSM-HANQW..**



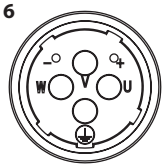
M40 Powerfast h-Style Wiring Diagram

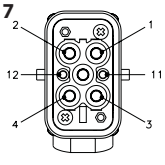
6-Pin

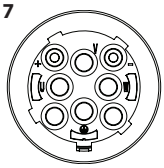
5



M40 Powerfast Jumper Plug and M40 Powerfast to Harting Connector Pinouts

6-Pin	Pinouts
Male	
6 	V. N/C U. N/C W. N/C ⏚. N/C +. Jumper to "–" –. Jumper to "+"

6-Pin	Pinouts
Male	
7 	1. RD 2. WH 3. BK ⏚. GN 4. N/C 11. N/C 12. N/C

6-Pin	Pinouts
Female	
7 	U. RD V. WH W. BK ⏚. GN +. Jumper to "–" –. Jumper to "+"

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

Notes

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

Part Number Keys	K3
Cordsets	K6
Receptacles	K13
EtherNet/IP Cordsets	K16
Field Wireables	K23

Features

- CAT 5e rated cables
- 2 pair and 4 pair cable option
- 8-pin and 4-pin D-coded connectors
- M12 and RJ45 connectors
- Up to 4 Amp and 250 Volt rated
- IP67/IP69K rated

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

System Description

Ethernet is the most popular protocol used to connect office computers and peripherals today. It is increasingly finding its way into other applications, and is rapidly becoming the network of choice for higher level industrial control applications. Ethernet is primarily used to connect PLCs, computers, HMI displays and other high level components.

The term "Ethernet" actually refers to the lower level communication structure. Various different versions, or implementations, of Ethernet are available, such as EtherNet/IP™ and Modbus-TCP. It is important to note that while all of these different specifications use the same physical communication method and can operate on the same cable simultaneously, they cannot necessarily communicate with each other. For example, Modbus-TCP devices cannot communicate with EtherNet/IP devices. This is because the messages and communication protocol have been defined differently for these systems, even though the physical electrical structure is the same. Think of it as two people who speak different languages; they speak by moving air with their mouths, but the rules of the languages are different.

Turck's BL67 Ethernet gateways provide a convenient way to connect industrial I/O devices directly to the Ethernet system, expediting monitoring and troubleshooting for the overall control scheme.

Typical System Configuration

Basic Parts List

A typical Ethernet system consists of the following parts:

- Controller
- Ethernet I/O modules
- Power supply
- Switches
- Ethernet cable

Ethernet I/O modules act as clients on a network. A server device is needed to retrieve data from and post data to the client. This is analogous to an office network, where the client PC on a user's desk may actively connect with multiple servers to access information in different areas of the enterprise. Turck Ethernet stations are designed to be fully compatible with established Ethernet standards for industrial use.

Cordsets

Turck offers a complete line of molded Ethernet cordsets to facilitate network installation, resulting in a faster start-up and fewer wiring errors. Cables are available with stranded or solid-core conductors, with or without shielding.

Most Turck Ethernet equipment uses the 4 or 8-pin (M12) Eurofast® connector specifications. These connectors provide a tough, rugged seal, and are IP 67 rated. In some cases (mainly in the control cabinet) a traditional RJ45 Ethernet connector needs to be used. Turck provides RJ45 cordsets, as well as a variety of devices made to convert between RJ45 and Eurofast connectors. Turck cordsets for the Ethernet system are available in standard lengths. Please contact your local sales representative to order custom lengths.

Maximum Lengths Ratings

Ethernet allows different maximum cable lengths depending on the type of cable being used. An Ethernet segment may be as long as 100 m, with up to 90 m solid core cable and the remaining 10 m can be stranded patch cords.

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

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	D	V	44x	-	*M

M12x1 (Eurofast)

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body

C = Large Plug Body
S = Shielded to Coupling Nut

Coupling Nut Material

(Blank) = Nickel Plated Brass
V = Stainless Steel

Keying Options

(Blank) = 8 pin, Standard Keyway
D = 4 pin, D-coding Keyway

Cable Type (x)

44 = Ethernet (4-pin)
84 = Ethernet (8-pin)

Length in Meters (*)

Consult factory for other lengths.

RJ45 Network Cordsets Part Number Key

W	RJ45	E	S	M	IP67	44x	-	*M

Connector Configuration

(blank) = Straight Connector
W = Right Angle Connector

Gender

RJ45 = RJ45 Connector, 8 pins - 8 Connections

Right Angle Connection Style

E = Stands for external tab. Tab is on the outside away from the cable
I = Stands for Internal tab. The tab is to the inside. Towards the cable.
(blank) = Straight Connector

Designator for Receptacle

(blank) = Unshielded
S = Shielded

Material for IP67 RJ45

(blank) = Plastic
M = Metal

Housing

(Blank) = Ethernet (4-pin)
IP67 = Ethernet (8-pin)

Network

44 = Ethernet (4-pin)
84 = Ethernet (8-pin)

Length in Meters

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

Ethernet Physical Media Connectivity

Eurofast® Receptacle Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

F	K	F	V		44x	-	*M

M12x1 (Eurofast)

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Housing Style

(Blank) = Front Mount
FD = Standard Back Panel Mount
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material

(Blank) = Nickel Plated Brass
V = Stainless Steel

Keying Options

(Blank) = 8 pin, Standard Keyway
D = 4 pin, D-coding Keyway

Cable Type (x)

44 = Ethernet (4-pin)
84 = Ethernet (8-pin)

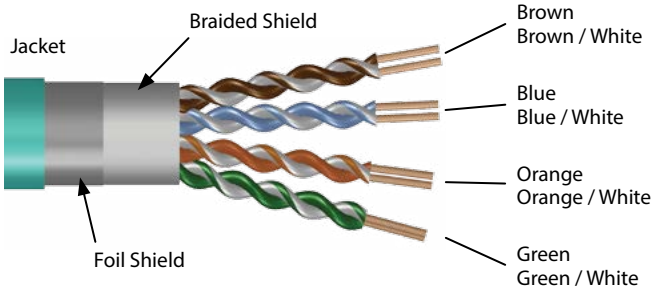
Length in Meters (*)

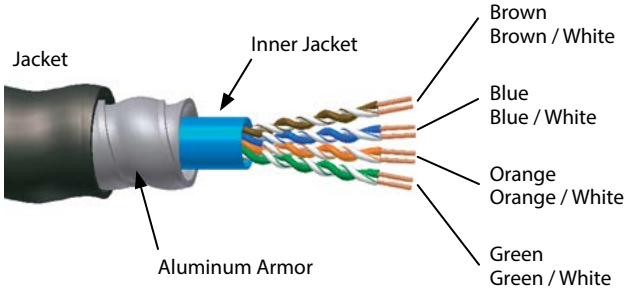
Consult factory for other lengths.

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

Ethernet, Cable Specifications, 8-wire

- **Cable that meets the requirements of TIA/EIA568-C.2 Category 5e Cable for 10 and 100 Base-T Ethernet**
- **Cable is UL Rated for Sunlight and Oil Resistant**





Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Flexlife Ratings
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type		
840 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.3 mm (.118 in)	-	RB51460-*M 29 lbs. Flexlife®	10xO.D. 1 million cycles 20xO.D. 10 million cycles
841 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 7.7 mm (.303 in)	Foil/Braid	RB50893-*M 43 lbs. Flexlife	10xO.D. 1 million cycles 20xO.D. 10 million cycles
842 75 °C, 300 V	c(UL)us Type CM AWM	4UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.1 mm (.240 in)	-	RB51462-*M 26 lbs.	-
843 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Solid	28.6 Ohms PE	TPE Teal 7.3 mm (.287 in)	Foil/Braid	RB51463-*M 41 lbs.	-
849A AWM 444 75 °C, 300 V	NEC CM IAA CMG, FT4	4UTPx24 AWG Solid	27.5 Ohms PO	PVC Black 14.1 mm (.555 in)	Foil/Braid Armor	RB51100-*M 100 lbs. Armorfast®	-

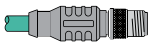
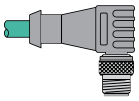
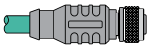
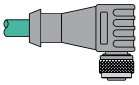
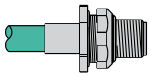
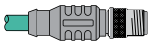
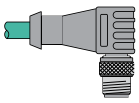
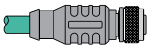
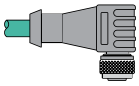
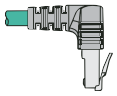
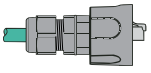
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.
†† 1 million cycles at 1.5" bend radius.
††† 2 million cycles at 2.5" bend radius.

We reserve the right to make technical alterations without prior notice.

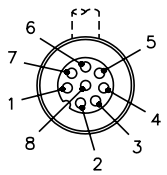
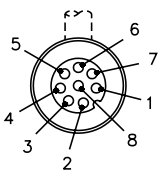
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

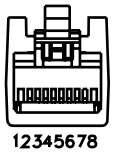
Ethernet Physical Media Connectivity

Ethernet, (M12x1) Eurofast® , RJ45, Cable/Cordset Selection Matrix - Unshielded

			Eurofast				
			Male		Female		Male
			1  RSC	2  WSC	3  RKC	4  WKC	5  FSFD
		Bare	RSC 84x-*M	WSC 84x-*M	RKC 84x-*M	WKC 84x-*M	FSFD 84x-*M
Eurofast	Male	1  RSC	RSC RSC 84x-*M	RSC WSC 84x-*M	RSC RKC 84x-*M	RSC WKC 84x-*M	RSC FSFD 84x-*M
		2  WSC	WSC RSC 84x-*M	WSC WSC 84x-*M	WSC RKC 84x-*M	WSC WKC 84x-*M	WSC FSFD 84x-*M
	Female	3  RKC			RKC RKC 84x-*M		RKC FSFD 84x-*M
		4  WKC			RKC WKC 84x-*M	WKC WKC 84x-*M	WKC FSFD 84x-*M
RJ45	RJ45 Plug	9 RJ45					RJ45 FSFD 84x-*M
	WRJ45 Plug	10  WRJ45E					WRJ45E FSFD 84x-*M
	RJ45M IP67 Plug	11  RJ45MIP67					RJ45MIP67 FSFD 84x-*M
	RJ45 IP67 Plug	12 RJ45IP67					RJ45IP67 FSFD 84x-*M

See pages K10 - K11 for dimensional drawings.

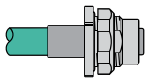
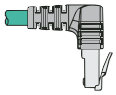
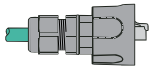
Eurofast	Pinouts	Eurofast
Male		Female
	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	

Standard Pinout	RJ45 Plug	(CR) Pinout
	Male	
1. White/Orange 2. Orange 3. White/Green 4. Blue 5. White/Blue 6. Green 7. White/Brown 8. Brown	 12345678	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown

We reserve the right to make technical alterations without prior notice.

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

Ethernet, (M12x1) Eurofast® , RJ45, Cable/Cordset Selection Matrix - Unshielded

Eurofast	RJ45			
Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug	RJ45 IP67 Plug
6  FKFD	9 RJ45	10  WRJ45E	11  RJ45MIP67	12 RJ45IP67
FKFD 84x-*M	RJ45 84x-*M	WRJ45E 84x-*M	RJ45MIP67 84x-*M	RJ45IP67 84x-*M
RSC FKFD 84x-*M	RSC RJ45 84x-*M	RSC WRJ45E 84x-*M	RSC RJ45MIP67 84x-*M	RSC RJ45IP67 84x-*M
WSC FKFD 84x-*M	WSC RJ45 84x-*M	WSC WRJ45E 84x-*M	WSC RJ45MIP67 84x-*M	WSC RJ45IP67 84x-*M
RKC FKFD 84x-*M	RKC RJ45 84x-*M	RKC WRJ45E 84x-*M	RKC RJ45MIP67 84x-*M	RKC RJ45IP67 84x-*M
WKC FKFD 84x-*M	WKC RJ45 84x-*M	WKC WRJ45E 84x-*M	WKC RJ45MIP67 84x-*M	WKC RJ45IP67 84x-*M
RJ45 FKFD 84x-*M	RJ45 RJ45 84x-*M		RJ45 RJ45MIP67 84x-*M	RJ45 RJ45IP67 84x-*M
WRJ45E FKFD 84x-*M	WRJ45E RJ45 84x-*M	WRJ45E WRJ4ES 84x-*M	WRJ45 RJ45MIP67 84x-*M	WRJ45E RJ45IP67 84x-*M
RJ45MIP67 FKFD 84x-*M			RJ45MIP67 RJ45MIP67 84x-*M	RJ45MIP67 RJ45IP67 84x-*M
RJ45IP67 FKFD 84x-*M			RJ45IP67 RJ45MIP67 84x-*M	RJ45IP67 RJ45IP67 84x-*M

See pages K10 - K11 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSC … to RSCV, FKFD … to FKFDV.

For cross-over cable, add "CR" to part number RJ45 RJ45 CR 84x-*M.

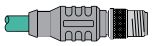
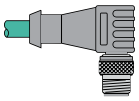
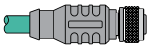
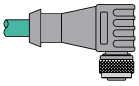
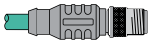
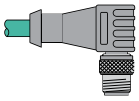
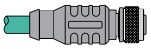
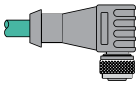
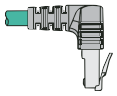
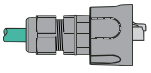
For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

We reserve the right to make technical alterations without prior notice.

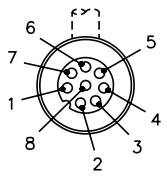
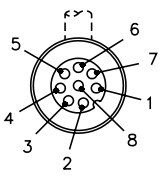
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

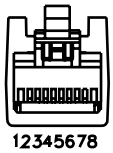
Ethernet Physical Media Connectivity

Ethernet, (M12x1) Eurofast®, RJ45, Cable/Cordset Selection Matrix - Shielded

			Eurofast			
			Male		Female	
			1  RSS	2  WSS	3  RKS	4  WKS
		Bare	RSS 84x-*M	WSS 84x-*M	RKS 84x-*M	WKS 84x-*M
Eurofast	Male	1 RSS 	RSS RSS 84x-*M	RSS WSS 84x-*M	RSS RKS 84x-*M	RSS WKS 84x-*M
		2 WSS 	WSS RSS 84x-*M	WSS WSS 84x-*M	WSS RKS 84x-*M	WSS WKS 84x-*M
	Female	3 RKS 			RKS RKS 84x-*M	
		4 WKS 			WKS RKS 84x-*M	WKS WKS 84x-*M
RJ45	RJ45 Plug	9 RJ45S				
	WRJ45 Plug	10 WRJ45ES 				
	RJ45M IP67 Plug	11 RJ45SMIP67 				

See pages K10 - K11 for dimensional drawings.

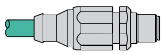
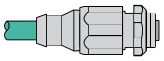
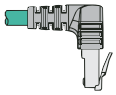
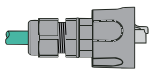
Eurofast	Pinouts	Eurofast
Male	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	Female
		

Standard Pinout	RJ45 Plug	(CR) Pinout
1. White/Orange 2. Orange 3. White/Green 4. Blue 5. White/Blue 6. Green 7. White/Brown 8. Brown	Male  12345678	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown

We reserve the right to make technical alterations without prior notice.

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

Ethernet, (M12x1) Eurofast®, RJ45, Cable/Cordset Selection Matrix - Shielded

Eurofast		RJ45		
Male	Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
7  FSSDE	8  FKSDE	9 RJ45S	10  WRJ45ES	11  RJ45SMIP67
FSSDE 84x-*M	FKSDE 84x-*M	RJ45S 84x-*M	WRJ45ES 84x-*M	RJ45SMIP67 84x-*M
RSS FSSDE 84x-*M	RSS FKSDE 84x-*M	RSS RJ45S 84x-*M	RSS WRJ45ES 84x-*M	RSS RJ45SMIP67 84x-*M
WSS FSSDE 84x-*M	WSS FKSDE 84x-*M	WSS RJ45S 84x-*M	WRJ45ES 84x-*M	WSS RJ45SMIP67 84x-*M
RKSS FSSDE 84x-*M	RKS FKSDE 84-*M	RKS RJ45S 84x-*M	RKS WRJ45ES 84x-*M	RKS RJ45SMIP67 84x-*M
WKS FSSDE 84x-*M	WKS FKSDE 84x-*M	WKS RJ45S 84x-*M	WKS WRJ45ES 84x-*M	WKS RJ45SMIP67 84x-*M
RJ45S FSSDE 84x-*M	RJ45S FKSDE 84x-*M	RJ45S RJ45S 84x-*M		RJ45SS RJ45SMIP67 84x-*M
WRJ45 FSSDE 84x-*M	WRJ45 FKSDE 84x-*M	WRJ45ES RJ45S 84x-*M	WRJ45ES WRJ45ES 84x-*M	WRJ45ES RJ45SMIP67 84x-*M
RJ45SMIP67 FSSDE 84x-*M	RJ45SMIP67 FKSDE 84x-*M			RJ45SMIP67 RJ45SMIP67 84x-*M

See pages K10 - K11 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSS … to RSSV, FKSDE … to FKSDEV.

For cross-over cable, add "CR" to part number RJ45S RJ45S CR 84x-*M.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

We reserve the right to make technical alterations without prior notice.

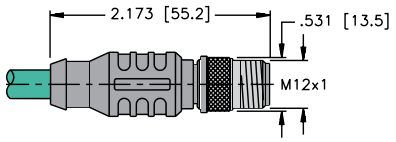
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ethernet, Eurofast® Cordset Connector Dimensions / Configuration

Specifications

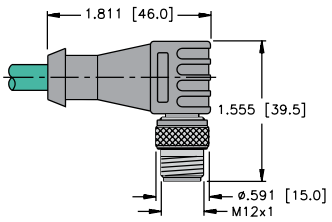
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	60 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	2 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +80 °C (32 °F to +176 °F)

1



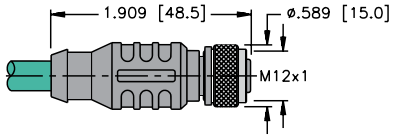
RSC/RSS .. **Page K6**

2



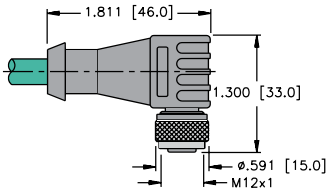
WSC/WSS .. **Page K6**

3



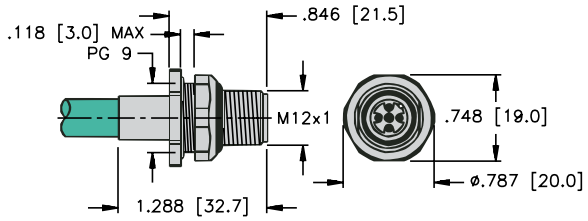
RKC/RKS .. **Page K6**

4



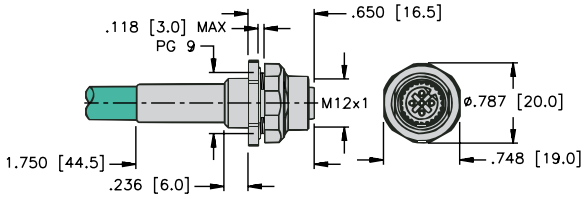
WKC/WKS .. **Page K6**

5



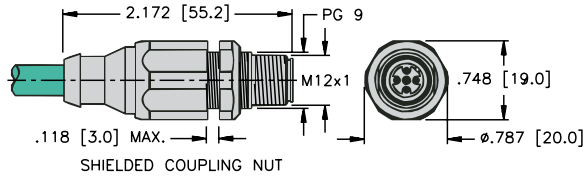
FSFD .. **Page K6**

6



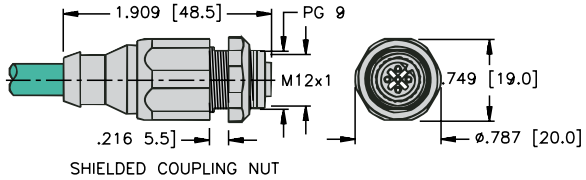
FKFD .. **Page K7**

7



FSSDE .. **Page K9**

8



FKSDE .. **Page K9**

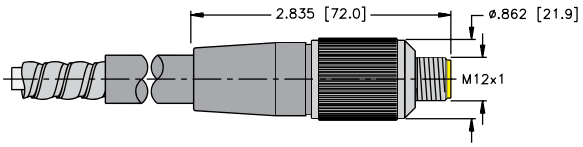
We reserve the right to make technical alterations without prior notice.

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

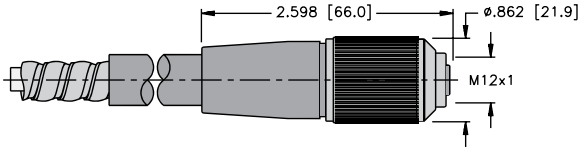
Ethernet, Armored M12 and RJ45 Connector Dimensions / Configuration

Specifications

Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	60 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	2 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +75 °C (-22 °F to +167 °F)



RSA .. **(Armorfast® only)**

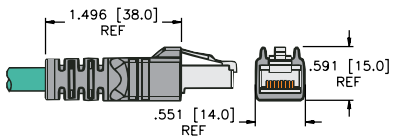


RKA .. **(Armorfast only)**

Specifications

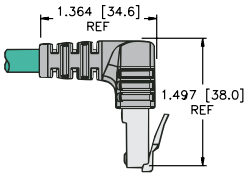
Overmold:	TPU	**Rated Voltage:**	42 V
Plug Material:	Polycarbonate	**Rated Current:**	1.5 A
Protection:	NEMA 1 and IEC IP 20		

9



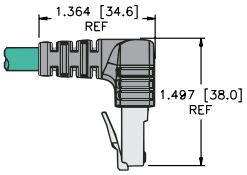
RJ45/RJ45S .. **Page K6**

10 - External tab



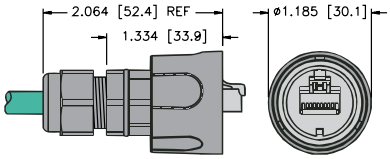
WRJ45E/WRJ45ES .. **External tab** **Page K6**

10 - Internal tab



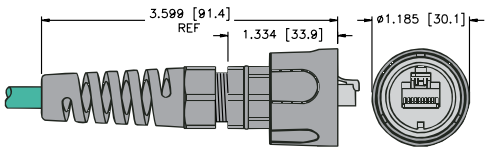
WRJ45I/WRJ45IS .. **Internal tab** **Page K6**

11



RJ45MIP67/RJ45SMIP67.. **Page K6**

12



RJ45IP67 .. **Page K6**

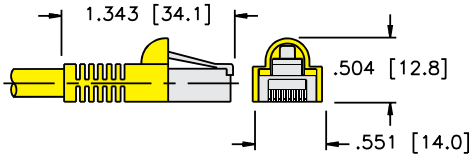
We reserve the right to make technical alterations without prior notice.

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

Ethernet Physical Media Connectivity

Ethernet, Economy RJ45 to RJ45 Cordsets

- **For "In the Panel" applications where Industrial Cordsets are not needed**
- **Available in Yellow, 3 ft and 7 ft lengths only**

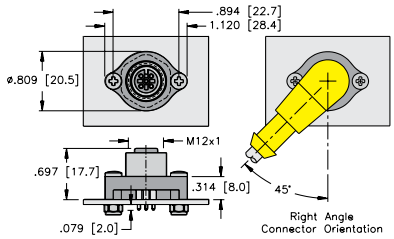
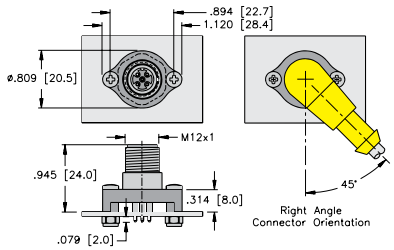
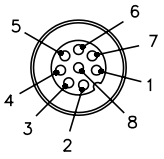
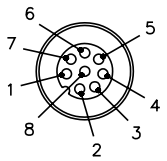
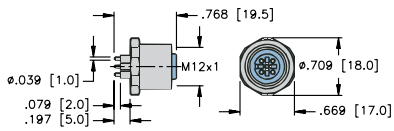
Housing	Part Number	Application	End View	Pinout
	**RJ45 RJ45 840-3FT/ECON** **RJ45 RJ45 840-7FT/ECON**	• Ethernet patch cordsets for panel connections • Economy, non industrial	**Male** 	1. WH/OG 2. OG 3. WH/GN 4. BU 5. WH/BU 6. GN 7. WH/BN 8. BN

We reserve the right to make technical alterations without prior notice.

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

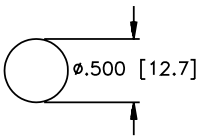
Ethernet, Circuit Board Connectors and OEM Receptacles, 8-wire

- **Provides (M12x1) Eurofast® 8-Pin Connection to Field Devices**

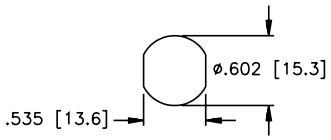
Housing	Female Part Number	Male Part Number	Features	Pinout
FK 84 PCB KIT  **FS 84 PCB KIT**  	**FK 84-PCB KIT**	**FS 84-PCB KIT**	Nickel plated CuZn or stainless steel, 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast with mounting kit	**Female**  **Male** 
FK 84 PCB  	**FK 84-PCB**		Nickel plated CuZn or stainless steel, 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast	

Standard housing material is nickel plated brass "FSV ..."; "FKV .." indicates 316 stainless steel.

Panel Cutout
FK ... FS



Panel Cutout
FKFD ... FSFD



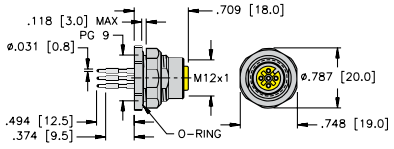
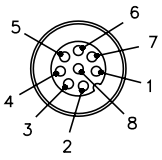
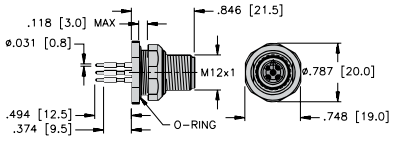
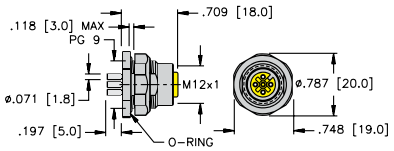
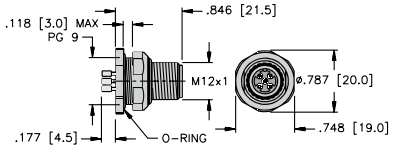
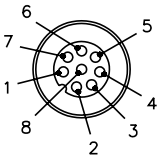
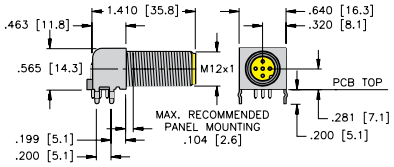
We reserve the right to make technical alterations without prior notice.

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

Ethernet Physical Media Connectivity

Ethernet, Circuit Board Connectors and OEM Receptacles, 8-wire

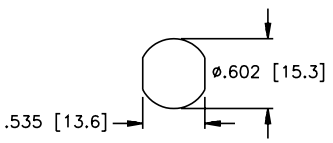
- **Provides (M12x1) Eurofast® 8-Pin Connection to Field Devices**

Housing	Female Part Number	Male Part Number	Features	Pinout
FKFD.. 	**FKFD 84-PCB**	**FSFD 84-PCB**	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast PCB pins	**Female** 
FSFD.. 				
FKFDL 	**FKFDL 84**	**FSFDL 84**	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, male Eurofast solder cups	
FSFDL.. 				**Male** 
WFS.. 		**WFS 84-PCB**	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, male Eurofast right angle PCB pins	

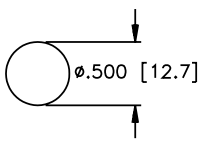
Standard housing material is nickel plated brass "FKFD.."; "FKFDV.." indicates 316 stainless steel.

We reserve the right to make technical alterations without prior notice.

Panel Cutout FKFD ... FSFD



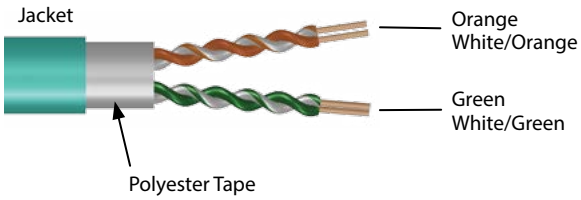
Panel Cutout WFS

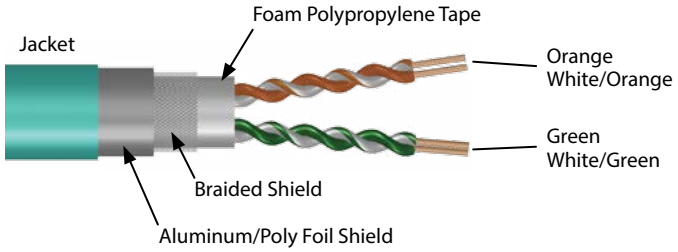


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ethernet, Cable Specifications, 4-wire

- **Cable that meets the requirements of TIA/EIA568-C Category 5e performance requirements cable for 10 and 100 Base-T Ethernet**
- **Compliant with EtherNet/IP standards**
- **Cable is UL Rated for Sunlight and Oil Resistant**





Maximum 100 meters of cable of which:

- **90 meters Horizontal Cable (SOLID - 442 or 443)**
- **2 x 5 meters Patch Cables (STRANDED - 440 or 441)**

Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Flexlife Ratings
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type		
440 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.1 mm (.240 in)	-	RB51210-*M 26 lbs. Flexlife®	10xO.D. 1 million cycles 20xO.D. 10 million cycles
441 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.7 mm (.240 in)	Foil/Braid	RB51211-*M 35 lbs. Flexlife	10xO.D. 1 million cycles 20xO.D. 10 million cycles
442 75 °C, 300 V	c(UL)us Type CM	2UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.1 mm (.220 in)	-	RB51212-*M 18 lbs.	-
443 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.9 mm (.270 in)	Foil/Braid	RB51213-*M 38 lbs.	-

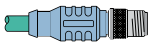
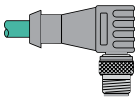
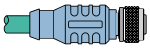
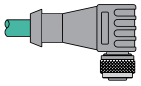
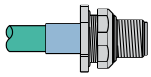
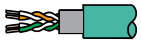
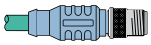
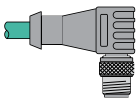
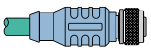
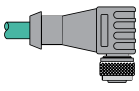
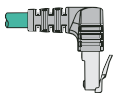
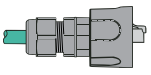
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

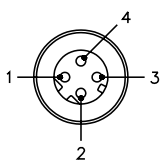
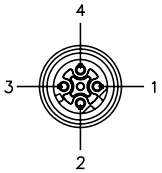
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

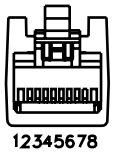
Ethernet Physical Media Connectivity

Ethernet, (M12x1) Eurofast®, RJ45 Cables and Extensions - Unshielded D-coded

			Eurofast				
			Male		Female		Male
			11  RSCD	2  WSCD	12  RKCD	4  WKCD	13  FSFDD
		Bare 	RSCD 44x-*M	WSCD 44x-*M	RKCD 44x-*M	WKCD 44x-*M	FSFDD 44x-*M
Eurofast	Male	11 RSCD 	RSCD RSCD 44x-*M	RSCD WSCD 44x-*M	RSCD RKCD 44x-*M	RSCD WKCD 44x-*M	RSCD FSFDD 44x-*M
		2 WSCD 	WSCD RSCD 44x-*M	WSCD WSCD 44x-*M	WSCD RKCD 44x-*M	WSCD WKCD 44x-*M	WSCD FSFDD 44x-*M
	Female	12 RKCD 			RKCD RKCD 44x-*M		RKCD FSFDD 44x-*M
		4 WKCD 			WKCD RKCD 44x-*M	WKCD WKCD 44x-*M	WKCD FSFDD 44x-*M
RJ45	RJ45 Plug	17 RJ45					RJ45 FSFDD 44x-*M
	WRJ45 Plug	18 WRJ45E 					WRJ45E FSFDD 44x-*M
	RJ45M IP67 Plug	19 RJ45MIP67 					RJ45MIP67 FSFDD 44x-*M
	RJ45 IP67 Plug	20 RJ45IP67					RJ45IP67 FSFDD 44x-*M

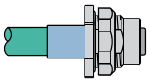
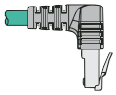
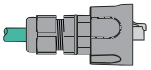
We reserve the right to make technical alterations without prior notice.

Eurofast	Pinouts	Eurofast
Male 	1. White/Orange (+ tx) 2. White/Green (+rx) 3. Orange (-tx) 4. Green (-rx)	Female 

RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
1. White/Orange 2. Orange 3. White/Green 4. N/C 5. N/C 6. Green 7. N/C 8. N/C	Male  12345678	1. White/Green 2. Green 3. White/Orange 4. N/C 5. N/C 6. Orange 7. N/C 8. N/C

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

Ethernet, (M12x1) Eurofast®, RJ45, Cables and Extensions - Unshielded D-coded

Eurofast	RJ45			
Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug	RJ45 IP67 Plug
14 	17	18 	19 	20
FKFDD	RJ45	WRJ45E	RJ45MIP67	RJ45IP67
FKFDD 44x-*M	RJ45 44x-*M	WRJ45E 44x-*M	RJ45MIP67 44x-*M	RJ45IP67 44x-*M
RSCD FKFDD 44x-*M	RSCD RJ45 44x-*M	RSCD WRJ45E 44x-*M	RSCD RJ45MIP67 44x-*M	RSCD RJ45IP67 44x-*M
WSCD FKFDD 44x-*M	WSCD RJ45 44x-*M	WSCD WRJ45E 44x-*M	WSCD RJ45MIP67 44x-*M	WSCD RJ45IP67 44x-*M
RKCD FKFDD 44x-*M	RKCD RJ45 44x-*M	RKCD WRJ45E 44x-*M	RKCD RJ45MIP67 44x-*M	RKCD RJ45IP67 44x-*M
WKCD FKFDD 44x-*M	WKCD RJ45 44x-*M	WKCD WRJ45E 44x-*M	WKCD RJ45MIP67 44x-*M	WKCD RJ45IP67 44x-*M
RJ45 FKFDD 44x-*M	RJ45 RJ45 44x-*M		RJ45 RJ45MIP67 44x-*M	RJ45 RJ45IP67 44x-*M
WRJ45E FKFDD 44x-*M	WRJ45E RJ45 44x-*M	WRJ45E WRJ45E 44x-*M	WRJ45E RJ45MIP67 44x-*M	WRJ45E RJ45IP67 44x-*M
RJ45MIP67 FKFDD 44x-*M			RJ45MIP67 RJ45MIP67 44x-*M	
RJ45IP67 FKFDD 44x-*M			RJ45IP67 RJ45MIP67 44x-*M	RJ45IP67 RJ45IP67 44x-*M

See pages K20 - K21 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

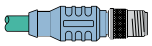
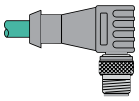
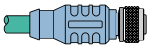
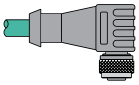
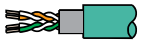
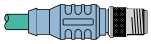
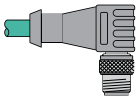
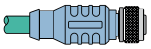
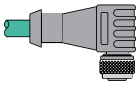
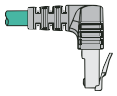
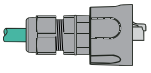
For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

We reserve the right to make technical alterations without prior notice.

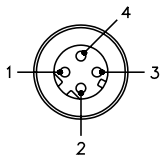
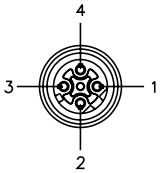
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

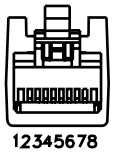
Ethernet Physical Media Connectivity

Ethernet, (M12x1) Eurofast®, RJ45, Cables and Extensions - Shielded Cable D-coded

			Eurofast			
			Male		Female	
			11  RSSD	2  WSSD	12  RKSD	4  WKSD
		Bare 	RSSD 44x-*M	WSSD 44x-*M	RKSD 44x-*M	WKSD 44x-*M
Eurofast	Male	11  RSSD	RSSD RSSD 44x-*M	RSSD WSSD 44x-*M	RSSD RKSD 44x-*M	RSSD WKSD 44x-*M
		2  WSSD	WSSD RSSD 44x-*M	WKSD WSSD 44x-*M	WSSD RKSD 44x-*M	WSSD WKSD 44x-*M
	Female	12  RKSD			RKSD RKSD 44x-*M	
		4  WKSD			RKSD WKSD 44x-*M	WKSD WKSD 44x-*M
RJ45	RJ45 Plug	17 RJ45S				
	WRJ45 Plug	18  WRJ45ES				
	RJ45M IP67 Plug	19  RJ45SMIP67				

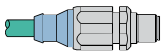
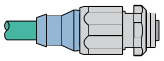
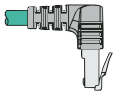
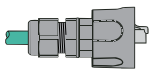
We reserve the right to make technical alterations without prior notice.

Eurofast	Pinouts	Eurofast
Male		Female
	1. White/Orange (+ tx) 2. White/Green (+rx) 3. Orange (-tx) 4. Green (-rx)	

RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
1. White/Orange 2. Orange 3. White/Green 4. N/C 5. N/C 6. Green 7. N/C 8. N/C	Male 	1. White/Green 2. Green 3. White/Orange 4. N/C 5. N/C 6. Orange 7. N/C 8. N/C

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

Ethernet, (M12x1) Eurofast®, RJ45, Cables and Extensions - Shielded Cable D-coded

Eurofast		RJ45		
Male	Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
15  FSSDED	16  FKSDED	17 RJ45S	18  WRJ45ES	19  RJ45SMIP67
FSSDED 44x-*M	FKSDED 44x-*M	RJ45S 44x-*M	WRJ45ES 44x-*M	RJ45SMIP67 44x-*M
RSSD FSSDED 44x-*M	RSSD FKSDED 44x-*M	RSSD RJ45S 44x-*M	RSSD WRJ45ES 44x-*M	RSSD RJ45SMIP67 44x-*M
WSSD FSSDED 44x-*M	WSSD FKSDED 44x-*M	WSSD RJ45S 44x-*M	WSSD WRJ45ES 44x-*M	WSSD RJ45SMIP67 44x-*M
RKSD FSSDED 44x-*M	RKSD FKSDED 44x-*M	RKSD RJ45S 44x-*M	RKSD WRJ45ES 44x-*M	RKSD RJ45SMIP67 44x-*M
WKSD FSSDED 44x-*M	RSSD FKSDED 44x-*M	WKSD RJ45S 44x-*M	WKSD WRJ45ES 44x-*M	WKSD RJ45SMIP67 44x-*M
RJ45S FSSDED 44x-*M	RJ45S FKSDED 44x-*M	RJ45S RJ45S 44x-*M		RJ45S RJ45SMIP67 44x-*M
WRJ45ES FSSDED 44x-*M	WRJ45ES FKSDED 44x-*M	WRJ45ES RJ45S 44x-*M	WRJ45ES WRJ45ES 44x-*M	WRJ45ES RJ45SMIP67 44x-*M
RJ45SMIP67 FSFD 84x-*M	RJ45SMIP67 FKFD 84x-*M			RJ45SMIP67 RJ45SMIP67 44x-*M

See pages K20 - K21 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSD … RSSDV, FSSDED … FSSDEDV.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

We reserve the right to make technical alterations without prior notice.

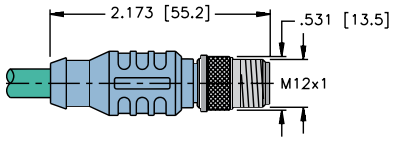
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ethernet, Eurofast® Cordset Connector Dimensions / Configuration

Specifications

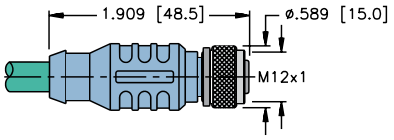
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +80 °C (32 °F to +176 °F)

11



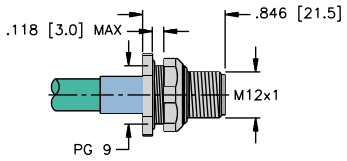
RSCD/RSSD .. **Page K16**

12



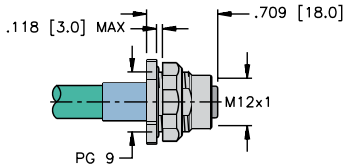
RKCD/RKSD .. **Page K16**

13



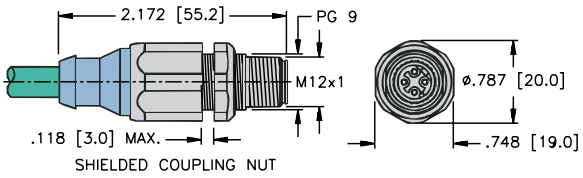
FSFDD .. **Page K16**

14



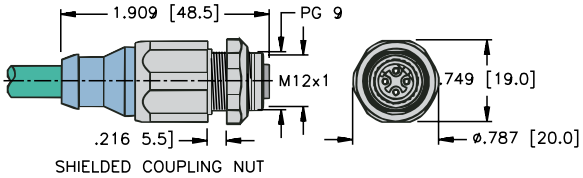
FKFDD .. **Page K17**

15



FSSDED .. **Page K19**

16



FKSDED .. **Page K19**

We reserve the right to make technical alterations without prior notice.

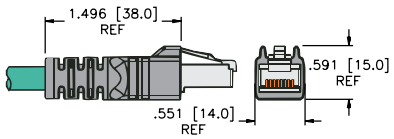
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Ethernet, RJ45 Connector Dimensions / Configuration

Specifications

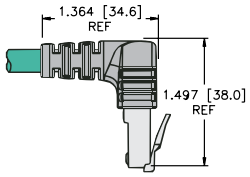
Overmold:	TPU	**Rated Voltage:**	42 V
Plug Material:	Polycarbonate	**Rated Current:**	1.5 A
Protection:	NEMA and IEC IP 20	**Ambient Temperature:**	-25 °C to +80 °C (-22 °F to +176 °F)

17



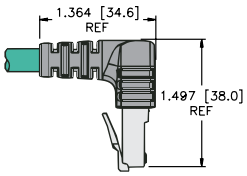
RJ45/RJ45S .. **Page K16**

18 - External tab



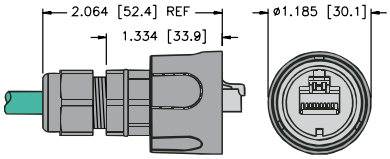
WRJ45E/WRJ45ES .. **External tab** **Page K16**

18 - Internal tab



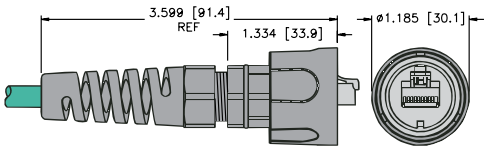
WRJ45I/WRJ45IS .. **Internal tab** **Page K16**

19



RJ45MIP67/RJ45SMIP67.. **Page K16**

20



RJ45IP67 .. **Page K16**

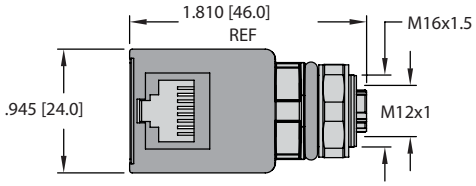
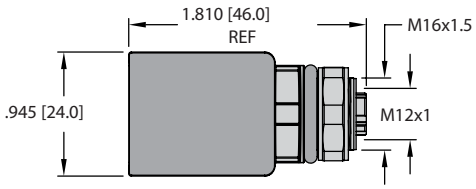
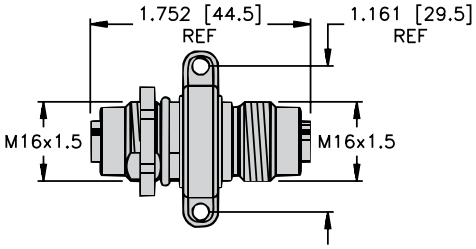
We reserve the right to make technical alterations without prior notice.

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

Ethernet Physical Media Connectivity

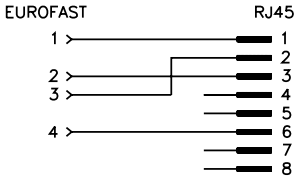
Ethernet, Receptacle

- **Transitions from a RJ45 Connector to a 4-wire Eurofast® Connector**

Housing Style	Part Number	Features
	**FKSDD RJ45SF 44**	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	**FKSDD RJ45SF 44/ST**	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	**FKD FKD 44/M12**	4 A, 50 V, -25 °C to +85 °C, wired one-to-one

Panel mounting clearance hole 19/32" (15 mm). Panel thickness: .060-.120" (1.5-3 mm)

Wiring Diagrams

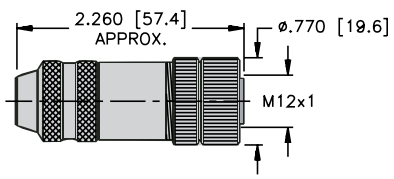
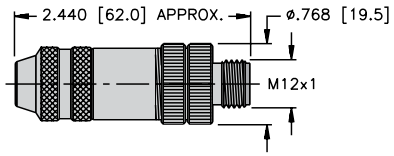
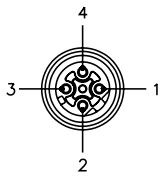
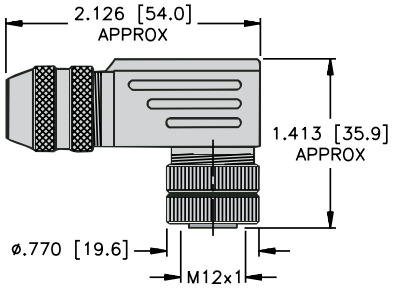
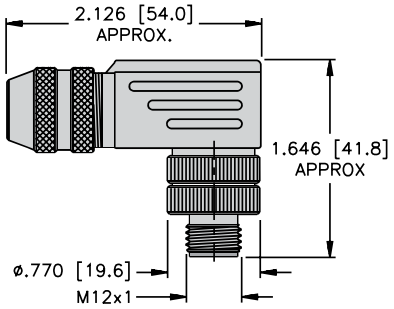
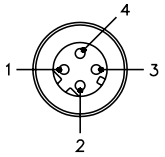


We reserve the right to make technical alterations without prior notice.

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

Ethernet, 4-Pin D-coded Field Wireables

- **Allows for Quick Connections when Pre-Molded Cables are not available**
- **Available in Male, Straight and Right Angle Connector configurations**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
CMBD 81..  **CMBSD 81..** 	**CMBD 8141-0/PG9**	**CMBSD 8141-0/PG9**	4 A, 250 V, -40 °C to +85 °C, mates with female 4-pin D-coded Eurofast® cordsets and receptacles	**Female** 
CMBD 82..  **CMBSD 82..** 	**CMBD 8241-0/PG9**	**CMBSD 8241-0/PG9**		**Male** 

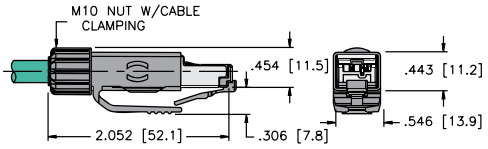
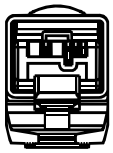
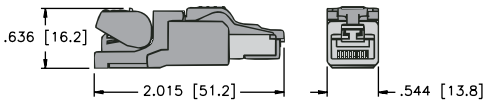
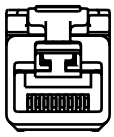
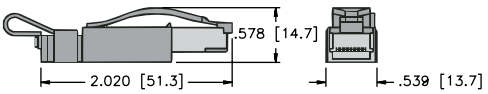
We reserve the right to make technical alterations without prior notice.

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

Ethernet Physical Media Connectivity

Ethernet, RJ45 Field Wireable

- **Allows for Quick Connections in the field**
- **Fully Shielded**
- **Includes assembly instructions**

Housing	Part Number	Features	Pinout
	**Connector, RJ45S IDC**	22-24 AWG stranded, 22-23 AWG solid, -40 °C to +70 °C	**Male** 
	**Connector, FW, RJ45S 84 IDC**	22-27 AWG stranded, 22-24 AWG solid, -40 °C to +85 °C, Cat 6 A	**Male** 
	**Connector, FW, RJ45S 86 IDC CAT 6**	22-26 AWG, -40 °C to +70 °C, Cat 6 A	**Male**

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	L2
Cable Specifications	L3
Cordsets	L4
Receptacles	L8
Field Wireables	L10

Features

- CAT 5e rated cables
- 2 Pair cable option
- 4-pin D-coded M12 connectors
- RJ45 connectors
- Up to 4 Amps and 250 Volt rated
- IP67 rated

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

PROFINET Physical Media Connectivity

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	D	V	42x	-	*M

M12x1 (Eurofast)
R = Straight
W = Right Angle

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body
C = Large Plug Body
S = Shielded to Coupling Nut

Keying Options
D = D-coding Key

Coupling Nut Material
(Blank) = Nickel Plated Brass
V = Stainless Steel

Cable Type (x)
42 = PROFINET

Length in Meters (*)
Consult factory for other lengths.

Eurofast Receptacle Part Number Key

F	K	F	V		42x	-	*M

M12x1 (Eurofast)

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body
(Blank) = Front Mount
FD = Standard Back Panel Mount
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material
D = D-coding Key

Coupling Nut Material
(Blank) = Nickel Plated Brass
V = Stainless Steel

Cable Type (x)
42 = PROFINET

Length in Meters (*)
Consult factory for other lengths.

RJ Network Cordsets Part Number Key

W	RJ45	E	S	M	F	IP67	42x	-	*M

Connector Configuration
(blank) = Straight Connector
W = Right Angle Connector

Connection Style
RJ45 = RJ45 Connector, 8 pins - 8 Connections

Right Angle Connection Style
E = standards for external tab. Tab is on the outside away from the cable
I = Stands for Internal tab. The tab is to the inside. Towards the cable.

Shielding
(blank) = Unshielded
S = Shielded

Material
(blank) = Plastic (IP67)
M = Metal (IP67)

Gender
(Blank) = Male
F = Female

Housing
(Blank) = IP20 RJ45
IP67 = IP67 RJ45

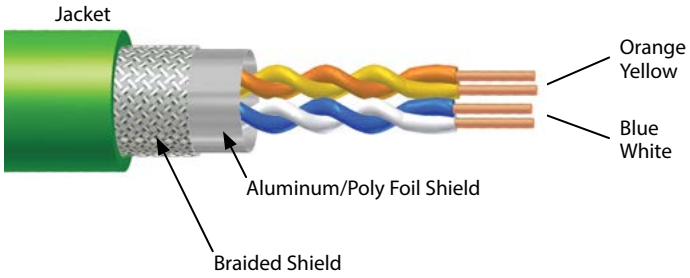
Network
42 = PROFINET

Length in Meters

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

PROFINET, Cable Specifications, 4-wire

- **Compliant with PROFINET Cable Standards**
- **Cable is UL Rated for Sunlight and Oil Resistant**



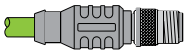
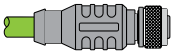
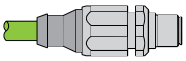
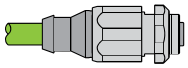
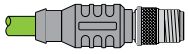
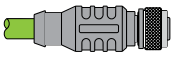
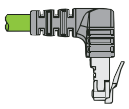
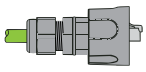
Version	Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
			AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type	
Type A Stationary with solid conductors	**421 80 °C, 600 V**	UL ITC/PLTC AWM	4UTPX22 AWG Solid	17.2 Ohm	TPE/Green 7.8 mm	Foil/Braid	RB51604*M, 49 lbs.
Type C Highly flexible with stranded conductors	**423 80 °C, 600 V**	UL ITC/PLTC	4UTPX22 AWG Stranded	17.5 Ohm	TPE/Green 8.1 mm	Foil/Braid	RB51216-*M, 49 lbs. Flexlife®

* Indicates length
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

PROFINET, (M12x1) Eurofast®, RJ45, Cables and Extensions - Shielded Cable D-coded

		Eurofast (Male)	Eurofast (Female)	Eurofast (Male)	Eurofast (Female)
		1  RSSD	2  RKSD	3  FSSDED	4  FKSDED
	Bare	RSSD 42x-*M	RKSD 42x-*M	FSSDED 42x-*M	FKSDED 42x-*M
Eurofast (Male)	1  RSSD	RSSD RSSD 42x-*M	RSSD RKSD 42x-*M	RSSD FSSDED 42x-*M	RSSD FKSDED 42x-*M
Eurofast (Female)	2  RKSD		RKSD RKSD 42x-*M	RKSD FSSDED 42x-*M	RKSD FKSDED 42x-*M
RJ45 Plug	5 RJ45S			RJ45S FSSDED 42x-*M	RJ45S FKSDED 42x-*M
WRJ45 Plug	6  WRJ45ES			WRJ45ES FSSDED 42x-*M	WRJ45ES FKSDED 42x-*M
RJ45M IP67 Plug	7  RJ45SMIP67			RJ45SMIP67 FSSDED 42x-*M	RJ45SMIP67 FKSDED 42x-*M

See pages L8 - L9 for dimensional drawings.

* Indicates length in meters.

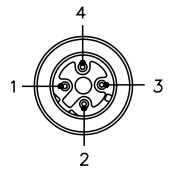
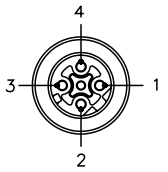
x Indicates cable type.

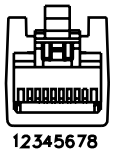
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSD … RSSDV, FSSDED … FSSDEDV.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

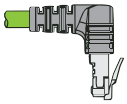
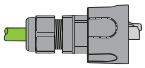
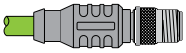
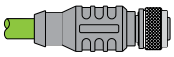
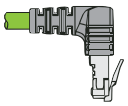
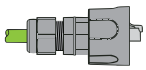
We reserve the right to make technical alterations without prior notice.

Eurofast	Pinouts	Eurofast
Male		Female
	1. Yellow (+tx) 2. White (+rx) 3. Orange (-tx) 4. Blue (-rx)	

RJ45 Pinout	RJ45 Plug
	Male
1. Yellow 2. Orange 3. White 4. N/C 5. N/C 6. Blue 7. N/C 8. N/C	 12345678

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

PROFINET, (M12x1) Eurofast®, RJ45, Cables and Extensions - Shielded Cable D-coded

		RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
		5 RJ45S	6  WRJ45ES	7  RJ45SMIP67
	Bare	RJ45S 42x-*M	WRJ45ES 42x-*M	RJ45SMIP67 42x-*M
Eurofast (Male)	1  RSSD	RSSD RJ45S 42x-*M	RSSD WRJ45ES 42x-*M	RSSD RJ45SMIP67 42x-*M
Eurofast (Female)	2  RKSD	RKSD RJ45S 42x-*M	RKSD WRJ45ES 42x-*M	RKSD RJ45SMIP67 42x-*M
RJ45 Plug	5 RJ45S	RJ45S RJ45S 42x-*M		RJ45S RJ45SMIP67 42x-*M
WRJ45 Plug	6  WRJ45ES	WRJ45ES RJ45S 42x-*M	WRJ45ES WRJ45ES 42x-*M	WRJ45ES RJ45SMIP67 42x-*M
RJ45M IP67 Plug	7  RJ45SMIP67	RJ45SMIP67 RJ45S 42x-*M	RJ45SMIP67 WRJ45ES 42x-*M	RJ45SMIP67 RJ45SMIP67 42x-*M

See pages L8 - L9 for dimensional drawings.

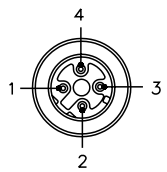
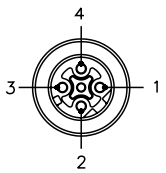
* Indicates length in meters.

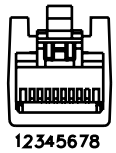
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSD … RSSDV, FSSDED … FSSDEDV.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

Eurofast	Pinouts	Eurofast
Male		Female
	1. Yellow (+tx) 2. White (+rx) 3. Orange (-tx) 4. Blue (-rx)	

RJ45 Pinout	RJ45 Plug
1. Yellow 2. Orange 3. White 4. N/C 5. N/C 6. Blue 7. N/C 8. N/C	Male 

We reserve the right to make technical alterations without prior notice.

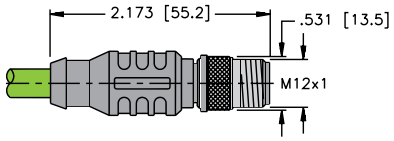
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFINET, Eurofast® Cordset Connector Dimensions / Configuration

Specifications

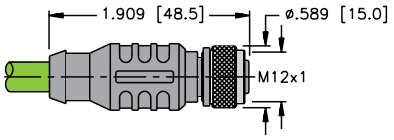
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU (Polyurethane) or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +80 °C (32 °F to +176 °F)

1



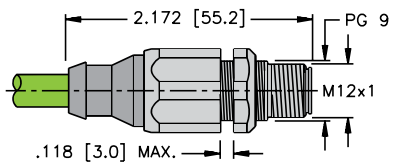
RSCD/RSSD .. **Page L4**

2



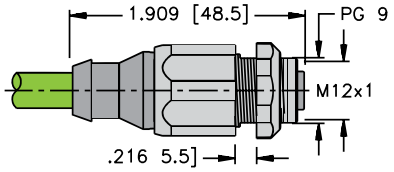
RKCD/RKSD .. **Page L4**

3



FSSDED .. **Page L4**

4



FKSDED .. **Page L4**

We reserve the right to make technical alterations without prior notice.

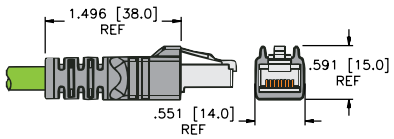
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFINET, RJ45 Connector Dimensions / Configuration

Specifications

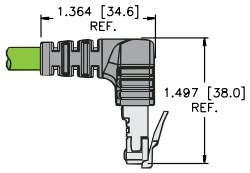
Overmold:	TPU	**Rated Voltage:**	42 V
Plug Material:	Polycarbonate	**Rated Current:**	1.5 A
Protection:	NEMA 1 and IEC IP 20 and IP 67	**Ambient Temperature:**	-25 °C to +75 °C (-22 °F to +176 °F)

5



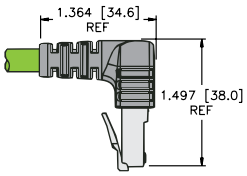
RJ45/RJ45S .. **Page L4**

6 - External tab



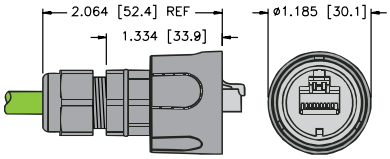
WRJ45E/WRJ45ES .. **External tab** **Page L4**

6 - Internal tab



WRJ45I/WRJ45IS .. **Internal tab** **Page L4**

7



RJ45MIP67/RJ45SMIP67.. **Page L4**

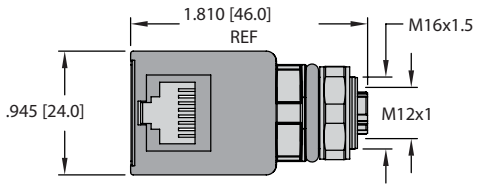
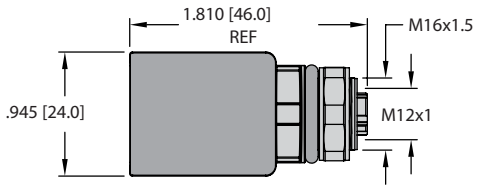
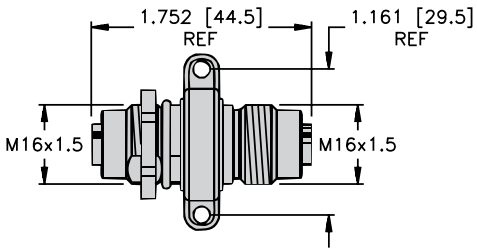
We reserve the right to make technical alterations without prior notice.

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

PROFINET Physical Media Connectivity

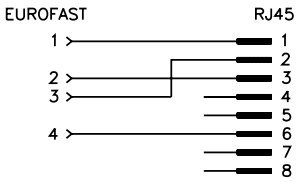
PROFINET, Receptacle

- **Transitions from a RJ45 Connector to a 4-wire Eurofast® Connector**

Housing Style	Part Number	Features
	**FKSDD RJ45SF 44**	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	**FKSDD RJ45SF 44/ST**	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	**FKD FKD 44/M12**	4 A, 50 V, -25 °C to +85 °C, wired one-to-one

Panel mounting clearance hole 19/32" (15 mm). Panel thickness: .060-.120" (1.5-3 mm)

Wiring Diagrams

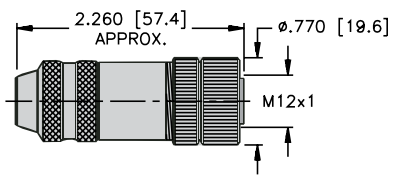
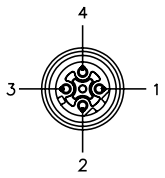
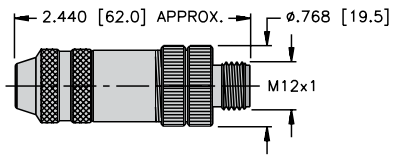
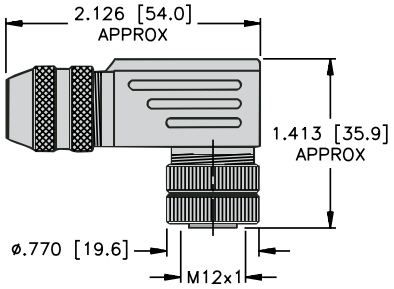
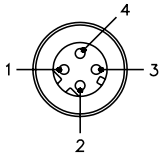
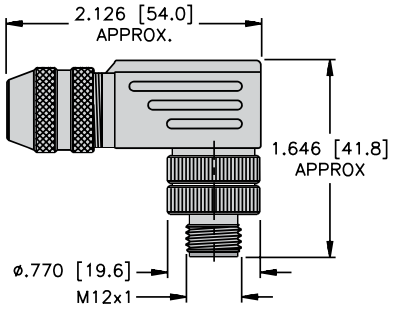


We reserve the right to make technical alterations without prior notice.

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

PROFINET, 4-Pin D-coded Field Wireables

- **Allows for Quick Connections when Pre-Molded Cables are not available**
- **Available in Male, Straight and Right Angle Connector configurations**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
CMBD 81.. 	**CMBD 8141-0/PG9**	**CMBSD 8141-0/PG9**	4 A, 250 V, -40 °C to +85 °C, mates with female 4-pin D-coded Eurofast® cordsets and receptacles	**Female** 
CMBSD 81.. 				
CMBD 82.. 	**CMBD 8241-0/PG9**	**CMBSD 8241-0/PG9**		**Male** 
CMBSD 82.. 				

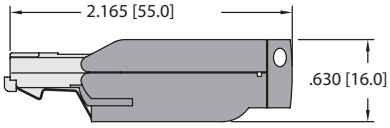
We reserve the right to make technical alterations without prior notice.

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

PROFINET Physical Media Connectivity

PROFINET, RJ45 Field Wireable

- **Allows for Quick Connections in the field**
- **Fully Shielded**
- **Includes assembly instructions**

Housing	Part Number	Features	Pinout
	**Connector, RJ45S 42 IDC**	22-26 AWG, -20 °C to 70 °C, 6 - 7 mm cable diameter	1. Yellow (+TX) 2. Orange (-TX) 3. White (+RX) 4. N/C 5. N/C 6. Blue (-RX) 7. N/C 8. N/C
	Connector, RJ45S 84 IDC (7- 8 mm)	22-26 AWG, -20 °C to 70 °C, 7 - 8 mm cable diameter	

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	M4
Cordsets	M10
Receptacles	M37
Field Wireables	M46

Features

- Cables that meet the requirements of the ODVA
- PLTC rated cable
- Available in thin, mid, and thick styles
- 7/8 and M12 connectors
- Rated up to 9 Amps and 600 Volts
- IP67/IP69K rated

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

DeviceNet System Description

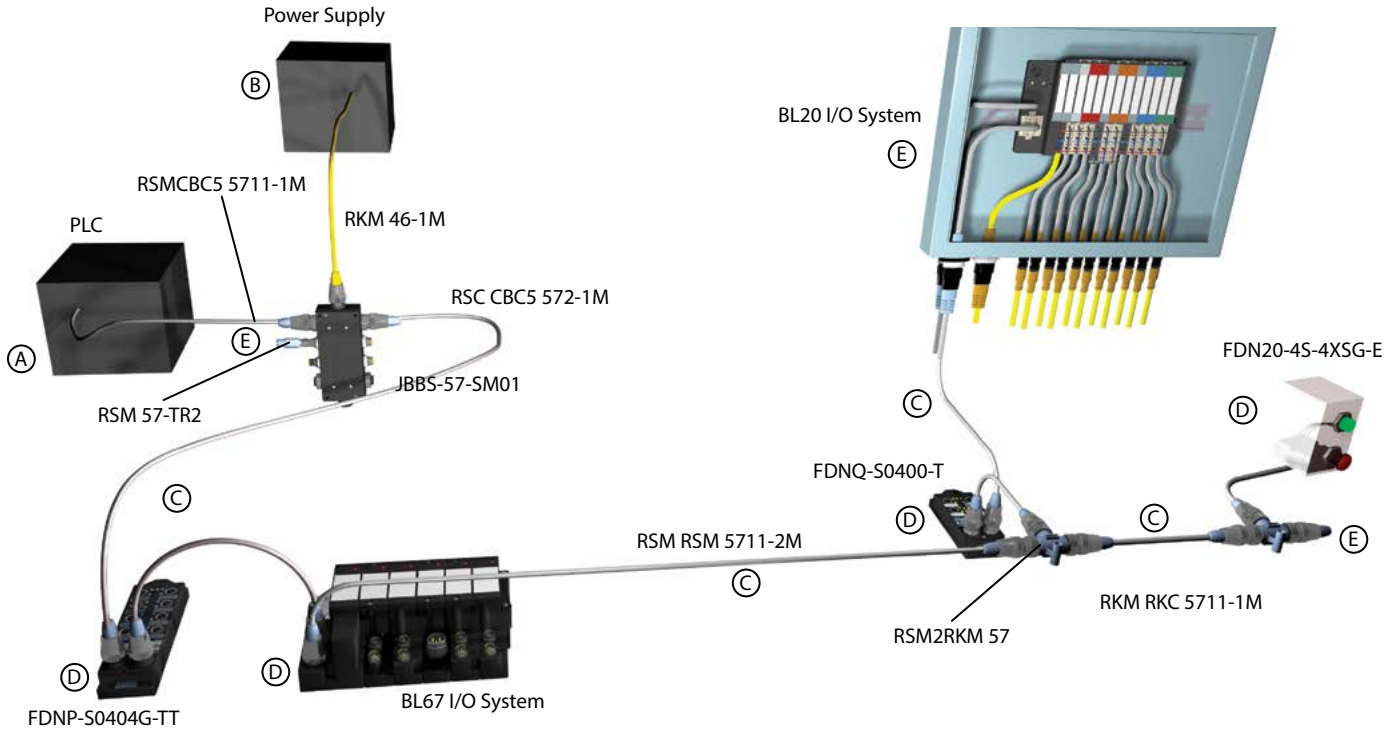
DeviceNet is a low-cost communications protocol that eliminates hard wiring and connects industrial devices such as limit switches, photoelectric sensors, valve manifolds, motor starters, process sensors, bar code readers, variable frequency drives, panel displays and operator interfaces to a network. DeviceNet's direct connection provides improved communication between devices, as well as important device-level diagnostics not easily accessible or available through hard-wired I/O interfaces.

DeviceNet is based on the Controller Area Network (CAN) broadcast-oriented communication architecture. CAN uses a bus arbitration method (CSMA/BA) that ensures the highest priority message is given preference in the event of a data collision. The DeviceNet protocol further defines message priorities such that I/O messages are given top priority and configuration messages have lower priority.

A DeviceNet network supports up to 64 nodes and virtually an unlimited amount of I/O. The bus uses a trunkline/dropline topology, where bus power and communication are supplied on a single cable. Bus power is 24 VDC and supplies current to operate the nodes and, typically, the power input devices. Some Turck stations require an additional 24 VDC auxiliary power to supply current for outputs.

DeviceNet allows peer-to-peer data exchange (where a DeviceNet node can initiate communication with other nodes or peers), and a master/slave configuration in which the master node initiates all communication and all other nodes, or slaves, respond to the master node's requests.

Typical System Configuration



A typical DeviceNet system consists of the following parts:

- A - Controller
- B - Power Supply
- C - DeviceNet Cable
- D - DeviceNet I/O Modules (or Slaves)
- E - Terminating Resistors

DeviceNet stations require a network master (also called a scanner) to interface the stations to the host controller. Turck DeviceNet stations are designed to be fully compatible with DeviceNet equipment from other manufacturers.

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

Cordsets

Turck offers a complete line of molded DeviceNet cordsets to facilitate network installation, resulting in a faster start-up and fewer wiring errors. The bus and drop cables are specially designed foil-shielded, high-flex cables with very low inductance and capacitance to minimize propagation delay time. DeviceNet cables consist of a shielded and twisted data pair, as well as a shielded and twisted power pair for the 24 VDC bus power, with an additional outer shield. The 24 VDC power pair provides bus power to the station's communication electronics and (typically) to input circuits.

The data lines for CAN-High and CAN-Low differential signals conform to the CAN standard, and support network data exchange at the maximum transmission speed of 500 kbps.

In most cases, bus cable connections are made using 5-pin Minifast® (7/8-16 UN) or Eurofast® (M12) connectors. A variety of stations are also available that support terminal-block type connections. Stations with output circuits for DC actuators normally require 24 VDC auxiliary power fed through a separate connection from the communication bus.

Turck cordsets for the DeviceNet system are available in standard lengths. Contact your local sales representative to order custom lengths.

Diagnostics

Turck stations provide increased diagnostics when used with standard proximity or photoelectric sensors and discrete actuators. Turck stations also serve as a buffer between I/O devices and the DeviceNet bus by detecting short-circuits without disrupting DeviceNet communication.

For deluxe style stations, each I/O point on the station provides state and status data. State data represents the real world value of the I/O device; for example, when the sensor is on or the actuator is off. Status data indicates short-circuits in the I/O device or in the wiring between the device and the station. Some models also use status data to indicate open circuits.

State and status data are transferred to the DeviceNet scanner where it is available for fault handling in the control program. Additionally, each input and output has a multicolored LED to indicate its state and status and pinpoint I/O problems quickly; for example, the module status LED indicates the internal health of the station, and the network status LED indicates the station's communication on the DeviceNet network.

Addressing

The valid range of DeviceNet node addresses is 0 to 63. The station's default node address is 63. Each node's address must be initially set, usually via rotary dials or switches on the node. The address can also be set with a DeviceNet configuration tool.

Changes to the address settings take effect when the station power is cycled. Care must be taken to prevent the same address from being assigned to more than one node in a system. If the same address is set on multiple nodes, one node will take control of the address and the others will go into "Critical Link Failure" state, indicated by the network status LED (solid red).

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

DeviceNet™ Physical Media Connectivity

Minifast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

W	K	M		57x	-	*M

7/8-16 UN (Minifast)

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
D = Male Connector, Male Threads

Coupling Nut Material

(blank) = Nylon
M = Nickel Plated Brass
V = Stainless Steel

Length in Meters (*)

Consult factory for other lengths.

Protocol

57 = DeviceNet

Minifast Receptacle Part Number Key

R	K	F		V		57x	-	*M	/NPT

7/8-16 UN (Minifast)

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Designator for Receptacle

Mounting Style

(Blank) = Front Mount
P = Back Panel Mount

Material

(Blank) = Anodized Aluminum
K = Nylon
V = Stainless Steel

Connection Type

(Blank) = Leads or PCB Pins
L = Solder Cup

Connection Thread

(Blank) = 1/2-14 NPSM Threads
/14.5 = 1/2-14 NPT Full Length Threads
/14.75 = 3/4-14 NPT Full Length Threads
/M20 = M20 Threads

Length in Meters (*)

Consult factory for other lengths.

Protocol

57 = DeviceNet

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

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	W	V	57x	-	*M

M12x1 (Eurofast)
R = Straight
W = Right Angle

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body
C = Large Plug Body
G = Robust Large Plug Body
S = Shielded to Coupling Nut
T = Small Plug Body

Keying Options
(blank) = Standard Key
W = Reverse Key

Length in Meters (*)
Consult factory for other lengths.

Cable Type (x)
57 = DeviceNet

Coupling Nut Material
(blank) = Nickel Plated Brass
K = Nylon
V = Stainless Steel

Eurofast Receptacle Part Number Key

F	S	F	V		57x	-	*M

M12x1 (Eurofast)

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Housing Style
(Blank) = Front Mount
FD = Standard Back Panel Mount
S = Shielded to Receptacle Housing
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material
(blank) = Nickel Plated Brass
V = Stainless Steel

Length in Meters (*)
Consult factory for other lengths.

Cable Type (x)
57 = DeviceNet

Keying Options
(Blank) = Standard Key
W = Reverse Key

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

DeviceNet™ Physical Media Connectivity

Picofast® Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P	S	G		5	M	57x	-	*M

M8x1 (Picofast)

Gender

K = Female Connector
S = Male Connector

Configuration

G = Straight
W = Right Angle

Coupling Nut (Threaded coupling nut only)

(blank) = Nickel Plated Brass
V = Stainless Steel

Number of Pins

Locking Method

(Blank) = Snap lock (No Locking Sleeve)
M = M8x1 Threaded Coupling Nut
Z = Snap lock (locking sleeve)

Cable Type (x)

57 = DeviceNet

Length in Meters

Consult factory for other lengths.

M8 Picofast Receptacle Part Number Key

M	F	K	S	5	F	57x	-	*

M8 Picofast Receptacle

M = straight
WM = right angle (PCB pins)

Designator for Receptacle

Gender

K = female connector
S = male connector

Connection Type

(blank) = snap lock
S = threaded
SH = threaded and mounting bracket
SHL = threaded and long mounting bracket

Number of Wires

Locking Method

(Blank) = front mount (rear thread and locknut)
F = rear mount (front thread and locknut)

Cable Type (x)

57 = DeviceNet

Connection Type / Length in Meters

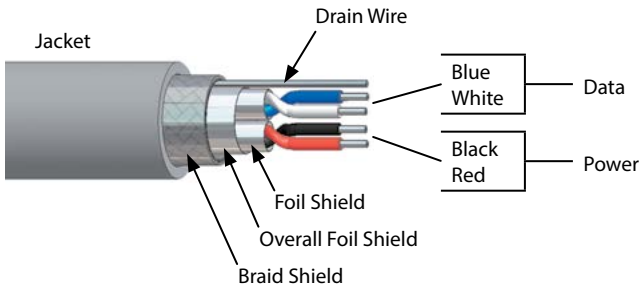
PCB = PCB pins
PCBF = PCB pins

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Thin Cable Specifications

- **Cable that meets the requirements of ODVA Thin or Type 1 Cable**
- **Commonly used as Drop Cable to a maximum length of 6 meters (20 Feet) or Trunk Cable in Networks up to a maximum length of 100 meters (328 feet)**



Data Rate	Maximum Trunk Length	Drop Length	
		Maximum	Cumulative
125 Kbaud	100 meters (328 feet)	6 meters (20 feet)	156 meters (512 feet)
250 Kbaud	100 meters (328 feet)		78 meters (256 feet)
500 Kbaud	100 meters (328 feet)		39 meters (128 feet)

Type	Approvals	Power Pair		Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Characteristic Impedance 1 MHz/Insulation	Material Color Nominal O.D.	Type Drain Wire	
572 80 °C, 300 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X22 AWG BK/RD	18.1 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 7.2 mm (.285 in)	Foil, 22 AWG	RB50603-*M, 44 lbs.
577 80 °C, 300 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X22 AWG BK/RD	17.5 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 8.4 mm (.330 in)	Foil/braid, 22 AWG	RB50629-*M, 65 lbs. Flexlife®
578 80 °C, 600 V	UL PLTC, CL2 CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X22 AWG BK/RD	18.1 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 7.9 mm (.310 in)	Foil/braid, 22 AWG	RB50651-*M, 51 lbs.
5715 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG BK/RD	18.1 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 6.0 mm (.235 in)	Foil (data only), 22 AWG	RB50764-*M, 26 lbs.
5725 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG BK/RD	18.1 Ohms PO	2X24 AWG BU/WH	120 Ohms PE	TPU, VIOLET, 7.0 mm (.276 in)	Foil/braid, 22 AWG	RB51916-*M, 50 lbs. Halogen-free
5732 80 °C, 600 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG BK/RD	18.1 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	TPE, CHARCOAL GRAY, 8.5 mm (.335 in)	Foil/braid, 22 AWG	RB51296-*M, 68 lbs. Flexlife, Weldlife

* Indicates length in meters.

Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

†† Zero Halogen: to DIN VDE 0472 part 815 + IEC 60754-1

We reserve the right to make technical alterations without prior notice.

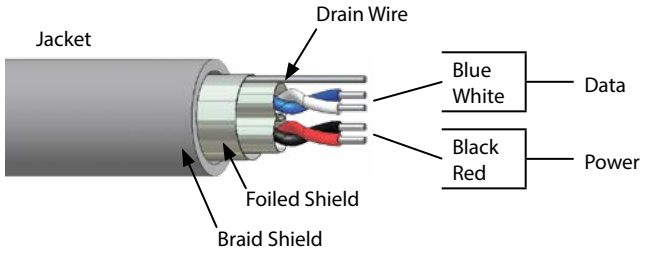
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet™ Physical Media Connectivity

DeviceNet, Mid Cable Specifications

- **Cable that meets the requirements of ODVA Mid or Type III Cable**
- **Provides more flexibility when used as a Trunk Cable up to a maximum length of 300 meters (984 feet)**

Figure A



Data Rate	Maximum Trunk Length
125 Kbaud	300 meters (984 feet)
250 Kbaud	250 meters (820 feet)
500 Kbaud	100 meters (328 feet)

Type	Approvals	Power Pair		Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Characteristic Impedance 1 MHz/Insulation	Material Color Nominal O.D.	Type Drain Wire	
5711 80 °C, 300 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X16 AWG BK/RD	4.1 Ohms PVC	2X20 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 8.4 mm (.330 in)	Foil, 20 AWG	RB50721-*M, 65 lbs.
5722 80 °C, 300 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X17 AWG BK/RD	5.8 Ohms PVC	2X20 AWG BU/WH	110 Ohms HDPE	PVC, GRAY, 8.9 mm (.350 in)	Foil, 20 AWG	RB50876-*M, 71 lbs. Flexlife®
5723 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X17 AWG BK/RD	5.8 Ohms PVC	2X20 AWG BU/WH	110 Ohms HDPE	TPU, GRAY, 8.4 mm (.330 in)	Foil, 20 AWG	RB50877-*M, 60 lbs. Flexlife
5731 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X16 AWG BK/RD	4.1 Ohms PVC	2X20 AWG BU/WH	120 Ohms HDPE	TPE, GRAY, 9.6 mm (.378 in)	Foil/braid, 20 AWG	RB51235-*M, 95 lbs. Weldlife
5737 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X17 AWG BK/RD	5.8 Ohms PVC	2X20 AWG BU/WH	110 Ohms HDPE	TPU, GRAY, 8.4 mm (.330 in)	Foil, 22 AWG	RB51903-*M, 60 lbs. C-track

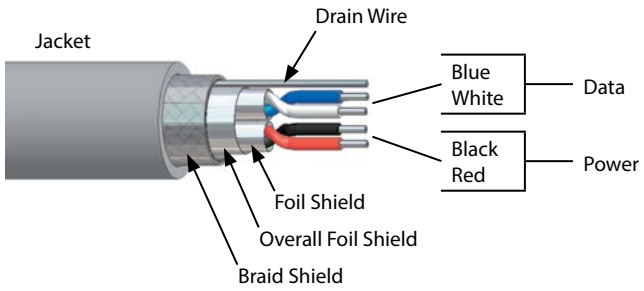
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Thick Cable Specifications

- **Cable that meets the requirements of ODVA Thick or Type 1 Cable**
- **It provides the most power to a Network when used as a Trunk Cable up to a maximum Standard Cable Length of 500 meters (1640 feet)**



Data Rate	Maximum Trunk Length	Maximum Trunk Length (5720)
125 Kbaud	500 meters (1640 feet)	420 meters (1378 feet)
250 Kbaud	250 meters (820 feet)	200 meters (656 feet)

Type	Approvals	Power Pair		Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Characteristic Impedance 1 MHz/Insulation	Material Color Nominal O.D.	Type Drain Wire	
575 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X15 AWG BK/RD	3.6 Ohms PVC	2X18 AWG BU/WH	120 Ohms HDPE	TPU, GRAY, 10.4 mm (.409 in)	Foil/braid, 18 AWG	RB50633-*M, 94 lbs.
579 80 °C, 600 V	UL PLTC, CL2 CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X15 AWG BK/RD	3.6 Ohms PVC	2X18 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 11.2 mm (.440 in)	Foil/braid, 18 AWG	RB50652-*M, 122 lbs.
5720 75 °C, 600 V	UL TC-ER CSA AWM I/II A/B, FT 1	2X16 AWG BK/RD	4.9 Ohms PVC	2X18 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 13.3 mm (.525 in)	Foil/braid, 16 AWG	RB50793-*M, 168 lbs.
5727 80 °C, 600 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X15 AWG BK/RD	3.6 Ohms PVC	2X18 AWG BU/WH	120 Ohms HDPE	PVC, CHARCOAL GRAY, 12.5 mm (.492 in)	Foil/braid, 18 AWG	RB51106-*M, 157 lbs. Flexlife
5730 80 °C, 600 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X15 AWG BK/RD	3.6 Ohms PVC	2X18 AWG BU/WH	120 Ohms HDPE	TPE, GRAY, 10.5 mm (.254 in)	Foil/braid, 18 AWG	RB51231-*M, 110 lbs. Weldlife

* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Cable/Cordset Selection Matrix

		Minifast®				Eurofast® Thin/Mid Only
		(Male)		(Female)		Male
		1 RSM	2 WSM	3 RKM	4 WKM	7 RSC
	Bare	RSM 57x-*M	WSM 57x-*M	RKM 57x-*M	WKM 57x-*M	RSC 57x-*M
Minifast (Male)	1 RSM	RSM RSM 57x-*M	RSM WSM 57x-*M	RSM RKM 57x-*M	RSM WKM 57x-*M	RSM RSC 57x-*M
Minifast (Male)	2 WSM		WSM WSM 57x-*M	WSM RKM 57x-*M	WSM WKM 57x-*M	WSM RSC 57x-*M
Minifast (Female)	3 RKM			RKM RKM 57x-*M	RKM WKM 57x-*M	RKM RSC 57x-*M
Minifast (Female)	4 WKM				WKM WKM 57x-*M	WKM RSC 57x-*M

See pages M16 - M17 for dimensional drawings.

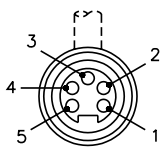
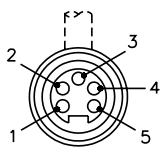
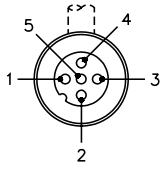
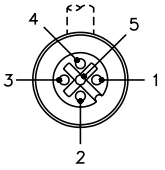
* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

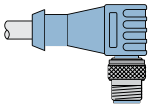
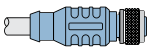
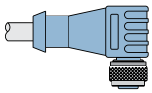
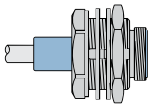
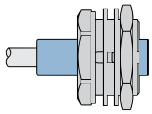
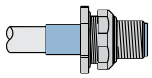
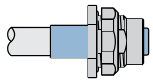
For stainless steel coupling nuts change part number RSM … to RSV, WSM … to WSV.

We reserve the right to make technical alterations without prior notice.

Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. White (CAN_H) 5. Blue (CAN_L)		

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

DeviceNet, Cable/Cordset Selection Matrix

Eurofast® (Thin/Mid Only)			Minifast® Bulkhead		Eurofast Bulkhead (Thin Only)	
Male	Female	Female	Male	Female	Male	Female
8  WSC	9  RKC	10  WKC	5  RSFP	6  RKFP	11  FSFD	12  FKFD
WSC 57x-*M	RKC 57x-*M	WKC 57x-*M	RSFP 57x-*M	RKFP 57x-*M	FSFD 57x-*M	FKFD 57x-*M
RSM WSC 57x-*M	RSM RKC 57x-*M	RSM WKC 57x-*M	RSM RSFP 57x-*M	RSM RKFP 57x-*M	RSM FSFD 57x-*M	RSM FKFD 57x-*M
WSM WSC 57x-*M	WSM RKC 57x-*M	WSM WKC 57x-*M	WSM RSFP 57x-*M	WSM RKFP 57x-*M	WSM FSFD 57x-*M	WSM FKFD 57x-*M
RKM WSC 57x-*M	RKM RKC 57x-*M	RKM WKC 57x-*M	RKM RSFP 57x-*M	RKM RKFP 57x-*M	RKM FSFD 57x-*M	RKM FKFD 57x-*M
WKM WSC 57x-*M	WKM RKC 57x-*M	WKM WKC 57x-*M	WKM RSFP 57x-*M	WKM RKFP 57x-*M	WKM FSFD 57x-*M	WKM FKFD 57x-*M

We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Cable/Cordset Selection Matrix

		Eurofast® (Thin/Mid Only)			
		Male		Female	
		7 RSC	8 WSC	9 RKC	10 WKC
	Bare	RSC 57x-*M	WSC 57x*-M	RKC 57x-*M	WKC 57x-*M
Eurofast (Male) Thin/Mid Only	7 RSC	RSC RSC 57x-*M	RSC WSC 57x-*M	RSC RKC 57x-*M	RSC WKC 57x-*M
	8 WSC		WSC WSC 57x-*M	WSC RKC 57x-*M	WSC WKC 57x-*M
Eurofast (Female) Thin/Mid Only	9 RKC			RKC RKC 57x-*M	RKC WKC 57x-*M
	10 WKC				WKC WKC 57x-*M

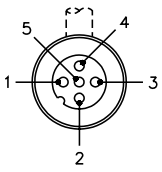
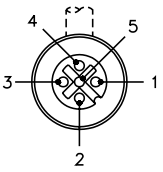
See pages M16 - M17 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

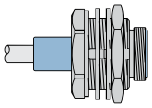
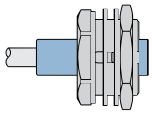
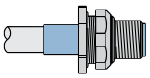
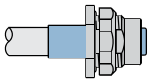
For stainless steel coupling nuts change part number RSM … to RSV, WSM … to WSV.

Pinouts	Eurofast	
	Male	Female
1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. White (CAN_H) 5. Blue (CAN_L)		

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Cable/Cordset Selection Matrix

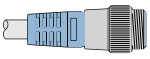
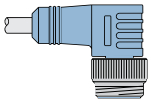
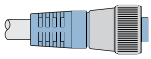
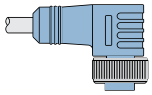
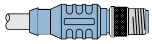
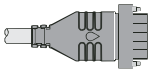
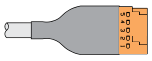
Minifast® Bulkhead		Eurofast® Bulkhead (Thin Only)	
Male	Female	Male	Female
5  RSFP	6  RKFP	11  FSFD	12  FKFD
RSFP 57x-*M	RKFP 57x-*M	FSFD 57x-*M	FKFD 57x-*M
RSC RSFP 57x-*M	RSC RKFP 57x-*M	RSC FSFD 57x-*M	RSC FKFD 57x-*M
WSC RSFP 57x-*M	WSC RKFP 57x-*M	WSC FSFD 57x-*M	WSC FKFD 57x-*M
RKC RSFP 57x-*M	RKC RKFP 57x-*M	RKC FSFD 57x-*M	RKC FKFD 57x-*M
WKC RSFP 57x-*M	WKC RKFP 57x-*M	WKC FSFD 57x-*M	WKC FKFD 57x-*M

We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Open Connector Cordset Selection Matrix

		Minifast®				Eurofast®
		(Male)		(Female)		Male
		1  RSM	2  WSM	3  RKM	4  WKM	7  RSC
15  Bare	CBC5 57x-*M	RSM CBC5 57x-*M	WSM CBC5 57x-*M	RKM CBC5 57x-*M	WKM CBC5 57x-*M	RSC CBC5 57x-*M
16  Bare	BK52C 57x-*M	RSM BK52C 57x-*M	WSM BK52C 57x-*M	RKM BK52C 57x-*M	WKM BK52C 57x-*M	RSC BK52C 57x-*M
	Thin, Mid and Thick Cable					Thin Cable Only

See pages M16 - M17 for dimensional drawings.

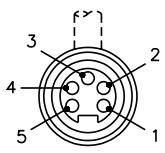
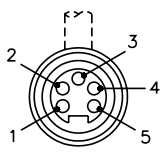
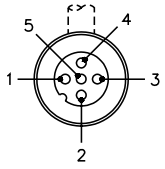
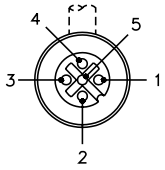
* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

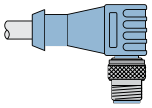
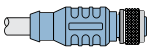
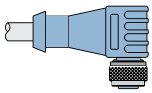
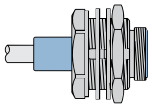
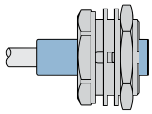
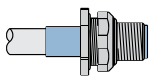
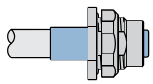
For stainless steel coupling nut: Change part number (RSM … to RSV, RSC … to RSCV).

We reserve the right to make technical alterations without prior notice.

Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. White (CAN_H) 5. Blue (CAN_L)		

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

DeviceNet, Open Connector Cordset Selection Matrix

Eurofast®			Minifast® Bulkhead		Eurofast Bulkhead	
Male	Female	Female	Male	Female	Male	Female
8  WSC	9  RKC	10  WKC	5  RSFP	6  RKFP	11  FSFD	12  FKFD
WSC CBC5 57x-*M	RKC CBC5 57x-*M	WKC CBC5 57x-*M	RSFP CBC5 57x-*M	RKFP CBC5 57x-*M	FSFD CBC5 57x-*M	FKFD CBC5 57x-*M
WSC BK52C 57x-*M	RKC BK52C 57x-*M	WKC BK52C 57x-*M	RSFP BK52C 57x-*M	RKFP BK52C 57x-*M	FSFD BK52C 57x-*M	FKFD BK52C 57x-*M
Thin and Mid Cable Only			Thin, Mid and Thick Cable		Thin Cable Only	

See pages M16 - M17 for dimensional drawings.

* Indicates length in meters.

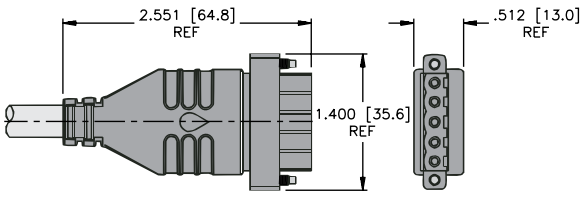
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

Specifications

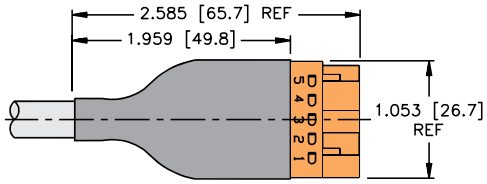
Overmold:	TPU	**Rated Voltage:**	250 V
Contact Carrier:	PA (Nylon)	**Rated Current:**	12 A
Protection:	NEMA 1, and IEC IP 20	**Ambient Temperature:**	-40 °C to +75 °C (-22 °F to +167 °F)

15

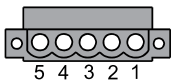
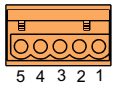


CBC5 .. **Page M14**

16



BK52C .. **Page M14**

CBC5	Pinouts	BK52C
 5 4 3 2 1	1 = Black (- Voltage) 2 = Blue (CAN_L) 3 = Bare (Shield Drain) 4 = White (CAN_H) 5 = Red (+ Voltage)	 5 4 3 2 1

We reserve the right to make technical alterations without prior notice.

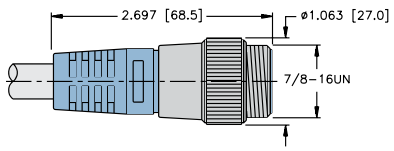
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Minifast® Cordset and Receptacle Connector Dimensions

Specifications

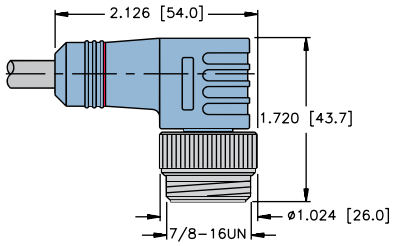
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	300 V
Contact Carrier:	TPU	**Ambient Temperature:**	-40 °C to +75 °C (-22 °F to +167 °F)
Contacts:	Gold Plated CuZn		

1



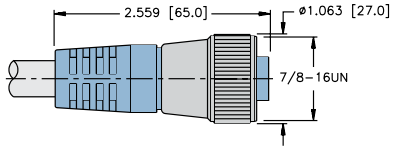
RSM .. **Page M10**

2



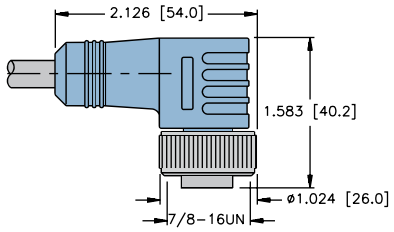
WSM .. **Page M10**

3



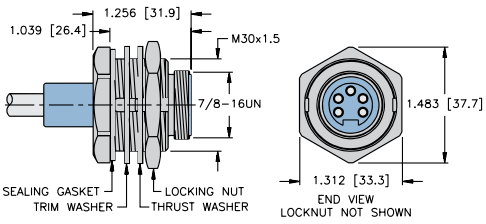
RKM .. **Page M10**

4



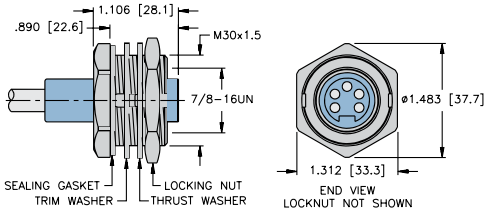
WKM .. **Page M10**

5



RSFP .. **Page M11**

6



RKFP .. **Page M11**

We reserve the right to make technical alterations without prior notice.

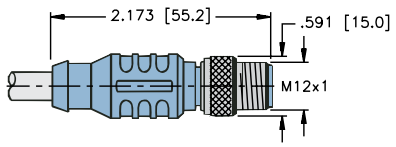
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Eurofast® Cordset and Receptacle Connector Dimensions

Specifications

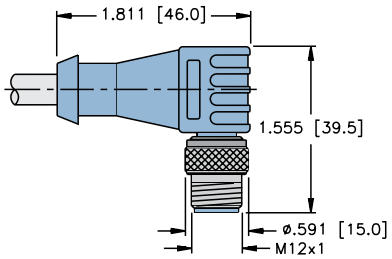
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +75 °C (-22 °F to +167 °F)

7



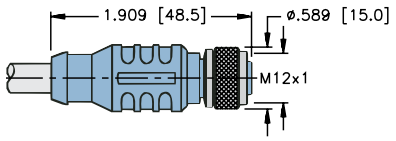
RSC .. **Page M10**

8



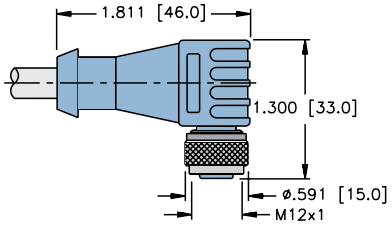
WSC .. **Page M11**

9



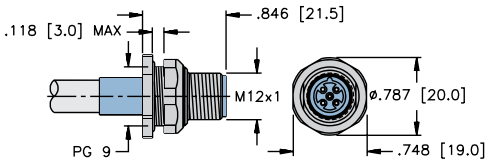
RKC .. **Page M11**

10



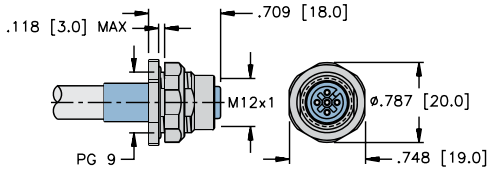
WKC .. **Page M11**

11



FSFD .. **Page M11**

12



FKFD .. **Page M11**

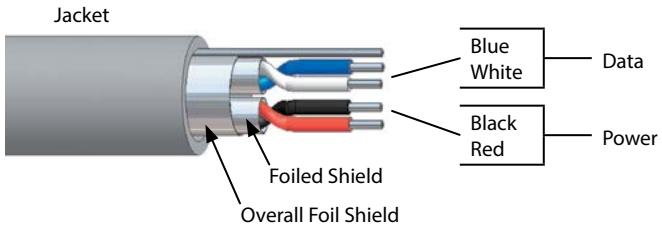
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Pico Cable Specifications

- **Cable that meets the electrical requirements of ODVA Thin Cable**
- **Pico Cable has 24 AWG Conductors which may be used with Picofast® Connectors**



DeviceNet - Pico Cable 5724

Data Rate	Maximum Trunk Length
125 Kbaud	35 meters (115 feet)
250 Kbaud	35 meters (115 feet)
500 Kbaud	35 meters (115 feet)

DeviceNet - Thin Cable 5715

Data Rate	Maximum Trunk Length
125 Kbaud	100 meters (328 feet)
250 Kbaud	100 meters (328 feet)
500 Kbaud	100 meters (328 feet)

Type	Approvals	Power Pair		Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Characteristic Impedance 1 MHz/Insulation	Material Color Nominal O.D.	Type Drain Wire	
5724 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X24 AWG BK/RD	24.9 Ohms PVC	2X24 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 5.7 mm (.224 in)	Foil, 24 AWG	RB51045-*M, 27 lbs.
5715 80 °C, 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG BK/RD	18.1 Ohms PVC	2X22 AWG BU/WH	120 Ohms HDPE	PVC, GRAY, 6.0 mm (.235 in)	Foil (data only), 22 AWG	RB50764-*M, 26 lbs.

* Indicates length in meters.
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

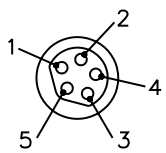
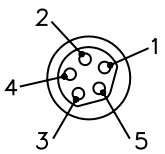
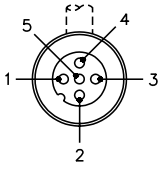
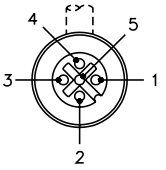
DeviceNet, Cable/Cordsets Selection Matrix - Threaded

		Picofast® (M8)				Eurofast® (M12)			
		Female		Male		Male		Female	
		3 PKG 5M	4 PKW 5M	1 PSG 5M	2 PSW 5M	7 RST	8 WST	9 RKT	10 WKT
	Bare	PKG 5M-57x	PKW 5M-57x	PSG 5M-57x	PSW 5M-57x	RST 57x-*	WST 57x	RKT 57x-*	WKT 57x-*
Picofast (Female)	3 PKG 5M	PKG 5M PKG 5M-57x	PKG 5M PKW 5M-57x	PKG 5M PSG 5M-57x	PKG 5M PSW 5M-57x	PKG 5M RST 57x*M	PKG 5M WST 57x*M	PKG 5M RKT 57x*M	PKG 5M WKT 57x*M
Picofast (Female)	4 PKW 5M		PKW 5M PKW 5M-57x	PKW 5M PSG 5M-57x	PKW 5M PSW 5M-57x	PKW 5M RST 57x*M	PKW 5M WST 57x*M	PKW 5M RKT 57x*M	PKW 5M WKT 57x*M
Picofast (Male)	1 PSG 5M			PSG 5M PSG 5M-57x	PSG 5M PSW 5M-57x	PSG 5M RST 57x*M	PSG 5M WST 57x*M	PSG 5M RKT 57x*M	PSG 5M WKT 57x*M
Picofast (Male)	2 PSW 5M				PSW 5M PSW 5M-57x	PSW 5M RST 57x*M	PSW 5M WST 57x*M	PSW 5M RKT 57x*M	PSW 5M WKT 57x*M

See pages M23 - M24 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type. See page B125 for available cable types.
Standard cable lengths are 1, 2, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.
For stainless steel coupling nuts change part number PSG 5M … to PSGV 5M, PSW 5M … to PSWV 5M.

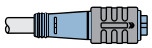
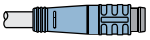
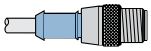
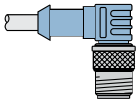
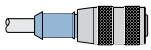
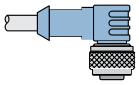
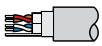
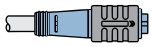
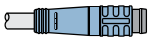
Picofast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. White (CAN_H) 5. Blue (CAN_L)		

We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Cable/Cordsets Selection Matrix - Snap Lock

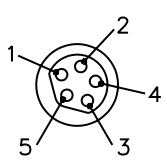
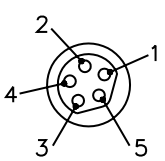
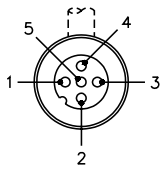
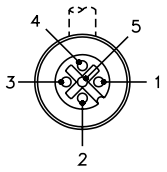
		Picofast® (Male)		Eurofast® (Female)		Eurofast® Male	Eurofast® Male
		6  PKG 5Z	5  PSG 5	7  RST	8  WST	9  RKT	10  WKT
	Bare 	PKG 5Z 57x-*M	PSG 5 57x-*M	RST 57x-*	WST 57x-*	RKT 57x-*	WKT 57x-*
Picofast (Male) (5724 Cable Only)	6  PKG 5Z	PKG 5Z PKGZ 5Z 57x-*M	PKG 5Z PSG 57x-*M	PKG 5Z RST 57x-*M	PKG 5Z WST 57x-*M	PKG 5Z RKT 57x-*M	PKG 5Z WKT 57x-*M
Picofast (Female) (5724 Cable Only)	5  PSG 5		PSG 5 PSG 5 57x-*M	PSG 5 RST 57x-*M	PSG 5 WST 57x-*M	PSG 5 RKT 57x-*M	PSG 5 WKT 57x-*M

See pages M23 - M24 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type. See page M20 for available cable types.
Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

Picofast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. White (CAN_H) 5. Blue (CAN_L)		

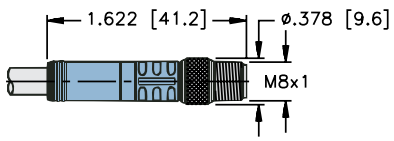
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Picofast® Cable/Cordsets Connector Dimensions

Specifications

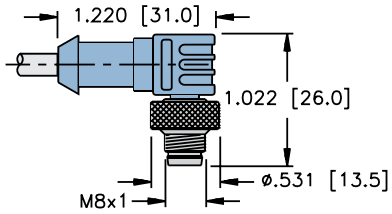
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel (thread), Nylon (snap lock)	**Rated Voltage:**	30 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	3 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +80 °C (-22 °F to +176 °F)

1



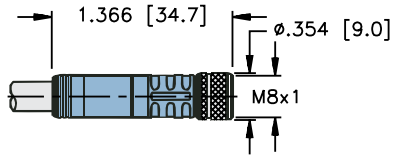
PSG 5M .. **Page M19**

2



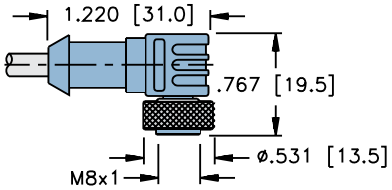
PSW 5M .. **Page M19**

3



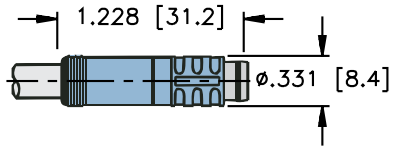
PKG 5M .. **Page M19**

4



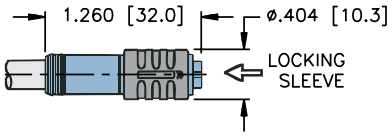
PKW 5M .. **Page M19**

5



PSG 5 .. **Page M20**

6



PKG 5Z .. **Page M20**

We reserve the right to make technical alterations without prior notice.

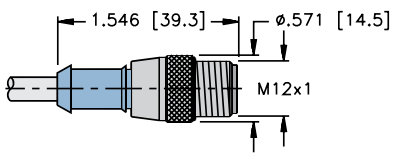
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Eurofast® Cable/Cordsets Connector Dimensions

Specifications

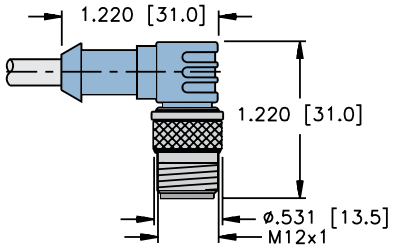
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +80 °C (-22 °F to +176 °F)

7



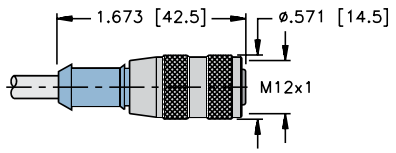
RST .. **Page M19**

8



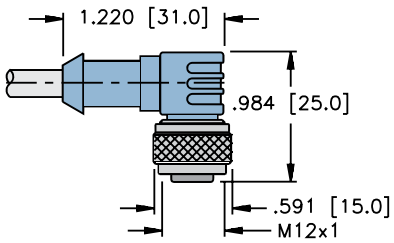
WST .. **Page M19**

9



RKT .. **Page M19**

10



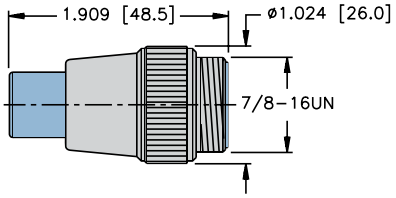
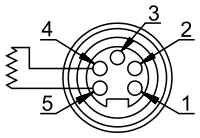
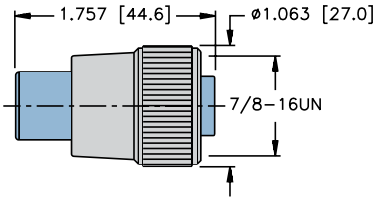
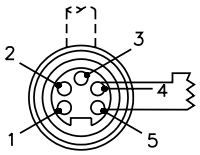
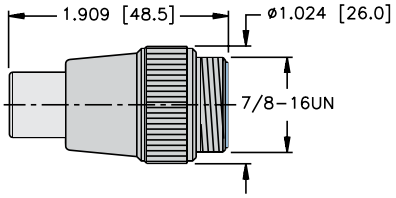
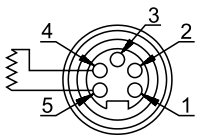
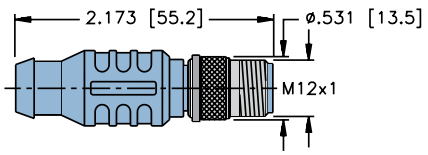
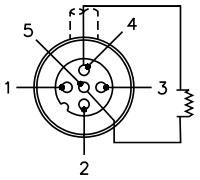
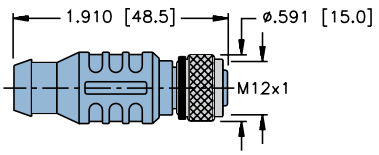
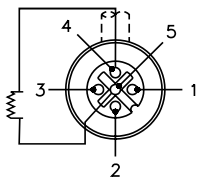
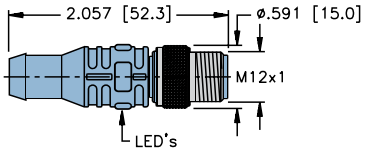
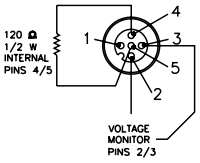
WKT .. **Page M19**

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Terminating Resistors

- **Terminating Resistors stabilize and minimize reflections on the Bus Line**
- **A Terminating Resistor is required at the beginning and end of the Main Bus Line**

Housing Style	Part Number	Features	Pinout
	**RSM 57-TR2**	Nickel plated brass or stainless steel, 300 V (7.6 V max. on pins with resistor) , -40 °C to +80 °C, IP 67, 120 Ohms, 1/2 W internal resistance	Male 
	**RKM 57-TR2**	Nickel plated brass or stainless steel, 300 V (7.6 V max. on pins with resistor), -40 °C to +80 °C, IP 67, 120 Ohms, 1/2 W internal resistance	Female 
	**RSM 57-TR2/VM**	Nickel plated brass or stainless steel, 24 V (7.6 V max. on pins with resistor), -40 °C to +80 °C, IP 67, 120 Ohms, 1/2 W internal resistance, voltage monitoring Led indication: Red - reverse polarity Green - okay	Male 
	**RSE 57-TR2**	Nickel plated CuZn or stainless steel, 250 V(7.6 V max. on pins with resistor), 4 A, -40 °C to +80 °C, IP 68, 120 Ohms, 1/2 W internal resistance	Male 
	**RKE 57-TR2**	Nickel plated CuZn or stainless steel, 250 V (7.6 V max. on pins with resistor), 4 A, -40 °C to +80 °C, IP 68, 120 Ohms, 1/2 W internal resistance	Female 
	**RSE 57-TR2/VM**	Nickel plated CuZn or stainless steel, 10-30 VDC, -40 °C to +80 °C, IP 68, 120 Ohms, 1/2 W internal resistance, voltage monitoring Led indication: Red - reverse polarity Green - okay	Female 

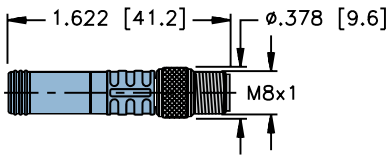
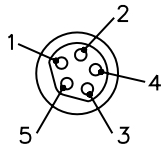
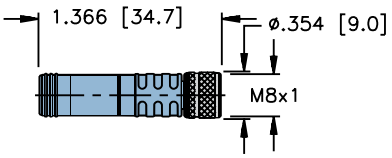
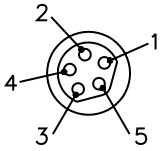
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Terminating Resistors

- **Terminating Resistors stabilize and minimize reflections on the Bus Line**
- **A Terminating Resistor is required at the beginning and end of the Main Bus Line**

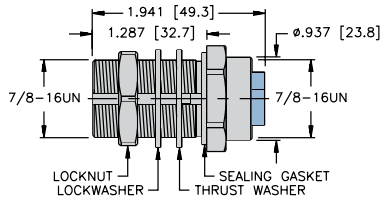
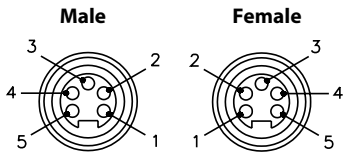
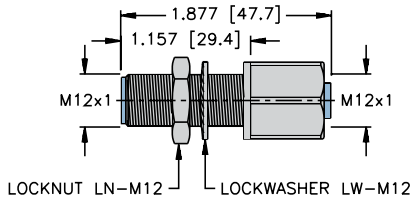
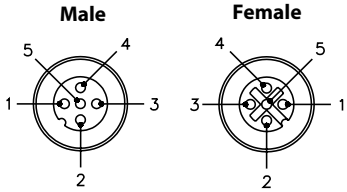
Housing Style	Part Number	Features	Pinout
	**PSG 5M 57-TR**	Nickel plated brass or stainless steel, 125 V(7.6 V max on resistor), 2 A, -40 °C to +105 °C, IP 67, male Picofast® connector, 120 Ohms, 1/2 W internal resistance	**Male** 
	**PKG 5M 57-TR**		**Female** 

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Receptacles

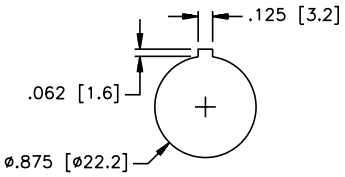
- **Receptacles provide transition from Male to Female Connectors**
- **Available for Bulkhead and Feed Through applications**

Housing Style	Part Number	Features	Pinout
	**RSF RKF 57/22**	Straight male/female feed through, nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +75 °C, IP 67	
	**FKM FS 57/M12**	Straight male/female feed through, nickel plated CuZn or stainless steel, 150 V, 4 A, -40 °C to +75 °C, IP 67	

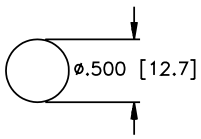
Standard housing material is nickel plated brass. "RSF RKF.."; "RSFV RKFV.." indicates stainless steel housing.

We reserve the right to make technical alterations without prior notice.

Panel Cutout RSF RKF 57/22



Panel Cutout FKM FS 57/M12

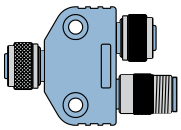
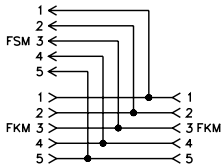
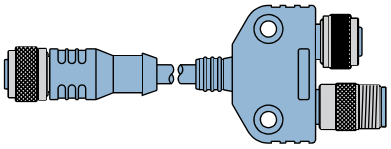
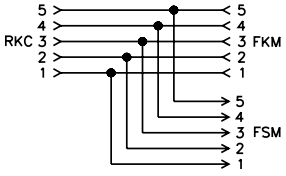
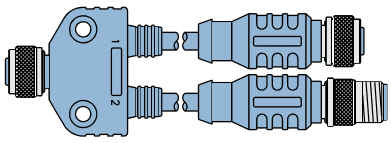
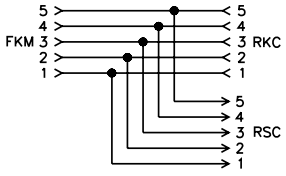


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet™ Physical Media Connectivity

DeviceNet, Eurofast® Drop Junctions

- **Creates a Drop or Branch from the Main Bus Line**
- **Cable Drop Lengths available up to a maximum of 6 meters**

Housing Style	Part Number	Features	Wiring Diagrams
	**VB2-FKM/FKM/FSM 57**	Ready for Eurofast drop and trunk cordsets, maximum six meter drop	
	**VB2-RKC 57x-*/FKM FSM**	Ready for Eurofast trunk line, maximum six meter drop	
	**VB2-FKM/RKC RSC 57x-*M-*M**	Ready for Eurofast drop cordsets, maximum six meter branch	

* Indicates length in meters.
x Indicates cable type.

We reserve the right to make technical alterations without prior notice.

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

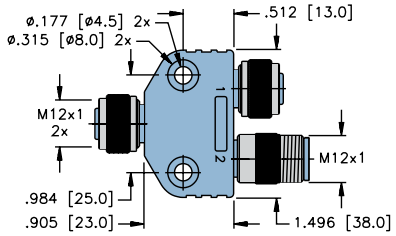
DeviceNet, Eurofast® Drop Junctions Dimensions

Specifications

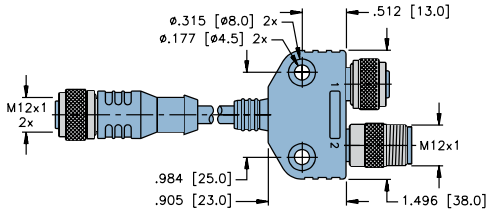
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +75 °C (32 °F to +167 °F)

Mounting: Mounting hole accepts #8 screw.

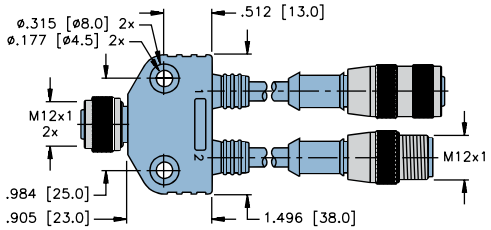
VB2-FKM/FKM/FSM 57



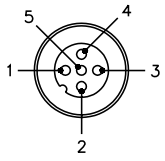
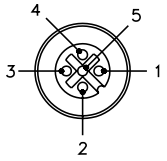
VB2-RKC 57x-*M-FKM FSM



VB2-FKM/FKM/FSM 57



Pinouts

Eurofast	
Male	**Female**
	

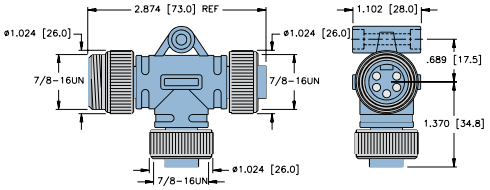
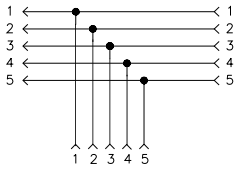
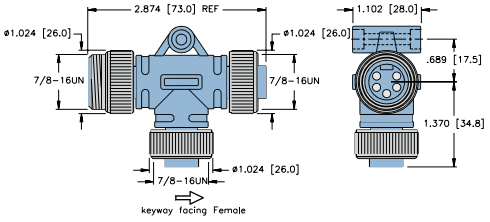
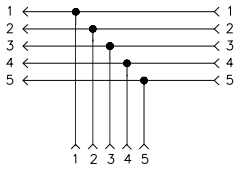
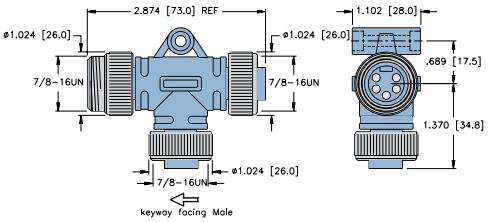
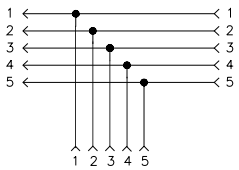
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

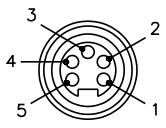
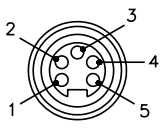
DeviceNet, Bus Drop Tees

- **Creates a Drop or Branch from the Main Bus Line**
- **(7/8-16 UN) Minifast® Connectors on Bus and Drop Lines**
- **Available in three Keyway options**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM-2RKM 57**	TPU, 300 V, 9 A, -40 °C to +75 °C, maximum six meter branch, Standard keyway	
	**RSM 2RKM 57-KF**	TPU, 300 V, 9 A, -40 °C to +75 °C, maximum six meter branch, keyway facing female	
	**RSM 2RKM 57-KM**	TPU, 300 V, 9 A, -40 °C to +75 °C, maximum six meter branch, keyway facing male	

We reserve the right to make technical alterations without prior notice.

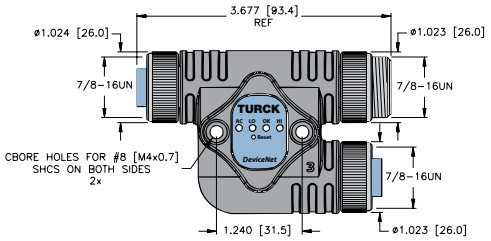
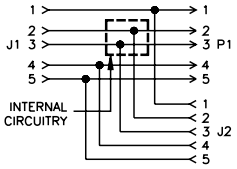
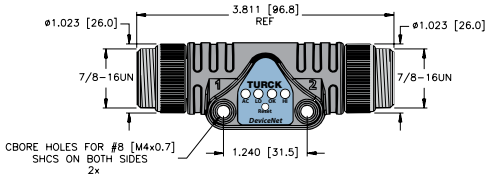
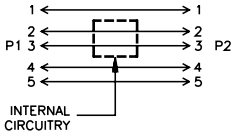
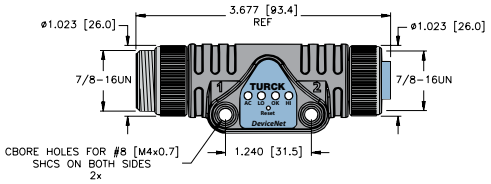
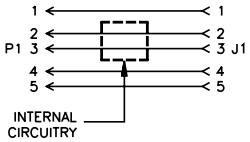
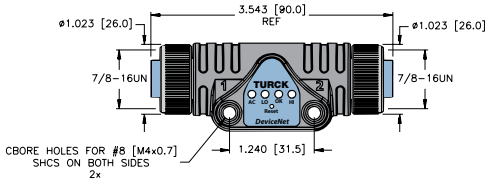
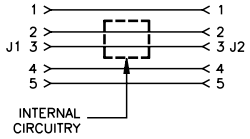
Pinouts

Minifast	
Male	Female
	

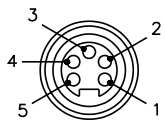
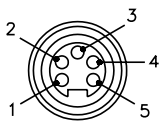
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Bus Drop and Diagnostic Tee

- Creates a Drop or Branch from the Main Bus Line
- (7/8-16 UN) Minifast® Connectors on Bus and Drop Lines
- Available in three Keyway options
- Different genders available
- LED Status Indicator

Housing Style	Part Number	Features	Wiring Diagrams
	**SH-RKM/RSM/RKM 57/VM**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C, maximum six meter branch	
	**RSM RSM 57-0/VM**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C, maximum six meter branch	
	**RSM RKM 57-0/VM**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C, maximum six meter branch	
	**RKM RKM 57-0/VM**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C	

Pinouts

Minifast	
Male	Female
	

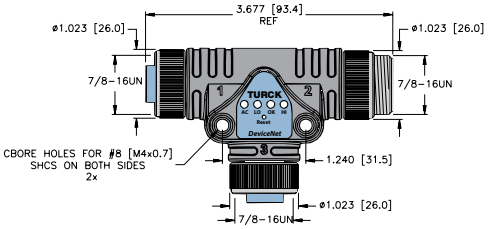
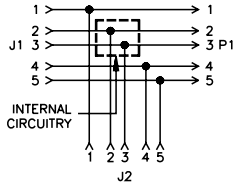
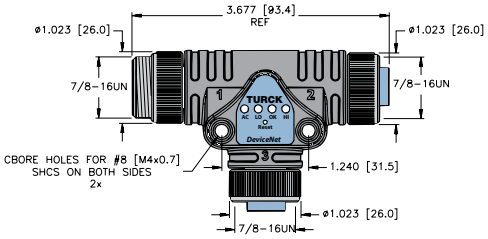
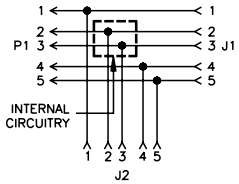
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Bus Drop and Diagnostic Tee

- **Creates a Drop or Branch from the Main Bus Line**
- **(7/8-16 UN) Minifast® Connectors on Bus and Drop Lines**
- **Available in three Keyway options**
- **Different genders available**
- **LED Status Indicator**

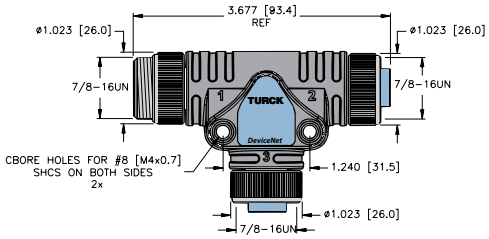
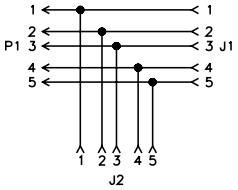
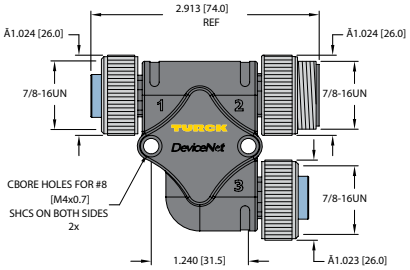
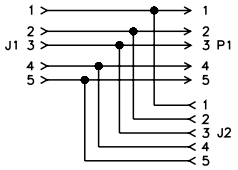
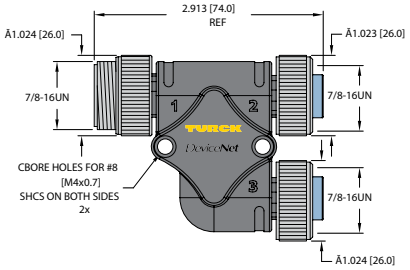
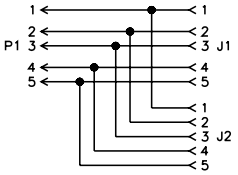
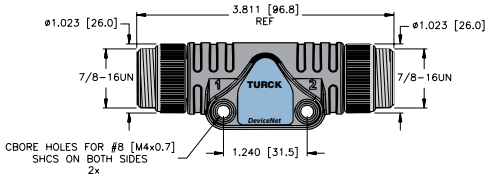
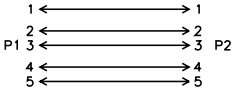
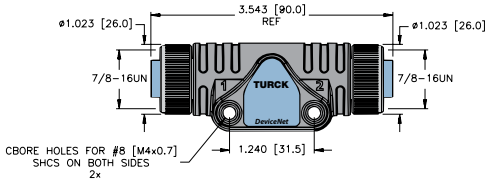
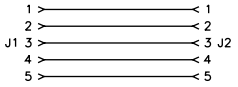
Housing Style	Part Number	Features	Wiring Diagrams
	**MT-RKM/RSM/RKM 57/DNET/VM**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C	
	**MT-RSM/2RKM 57/DNET/VM**		

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Bus Drop Tee

- Creates a Drop or Branch from the Main Bus Line
- (7/8-16 UN) Minifast® Connectors on Bus and Drop Lines
- Available in three Keyway options
- Different genders available

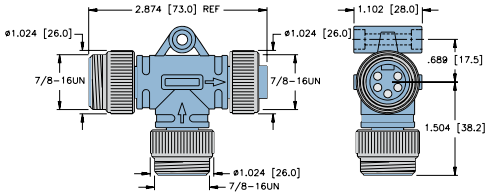
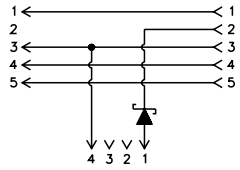
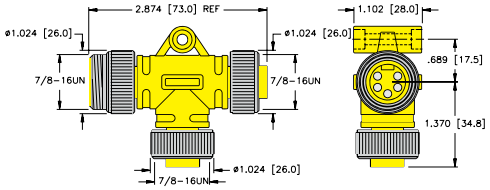
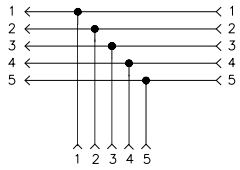
Housing Style	Part Number	Features	Wiring Diagrams
	**MT-RSM/2RKM 57/DNET**	TPU (Polyurethane), 30 V, 9 A, -40 °C to +105 °C	
	**XSH-RKM/RSM/RKM 57**		
	**XSH-RSM-2RKM 57**		
	**RSM RSM 57-0**		
	**RKM RKM 57-0**		

We reserve the right to make technical alterations without prior notice.

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

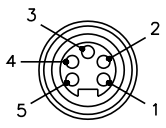
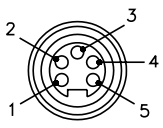
DeviceNet, Power and Diagnostic Tees

- **Provide a Drop to insert Power or Diagnostic Equipment**
- **(7/8-16 UN) Minifast® Connectors on Bus and Drop Lines**
- **Reverse Current Protection on Power Tap**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM RKM 57 WSM 40 PST**	TPU, 300 V, 9 A, -40 °C to +75 °C, bus power tee provides segment power, includes reverse current protection	
	**RSM-2RKM 57 DGT**	TPU, 300 V, 9 A, -40 °C to +75 °C, bus diagnostic tee provides easy connection for diagnostic tools, tap protected with cover when not in use (not shown)	

We reserve the right to make technical alterations without prior notice.

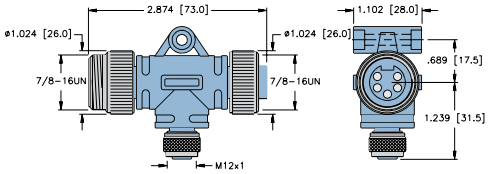
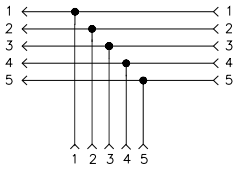
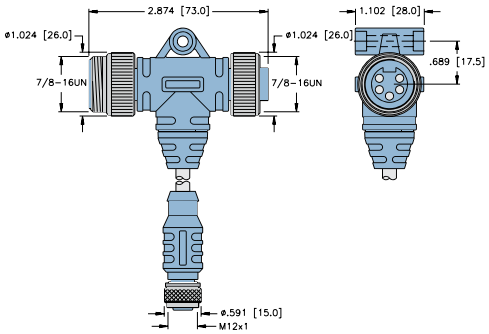
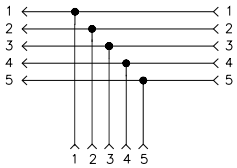
Pinouts

Minifast	
Male	Female
	

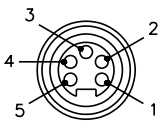
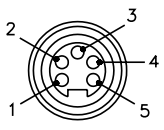
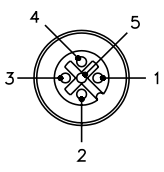
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Bus Tees

- Creates a Drop or Branch from the Main Bus Line
- Cable Drop can be up to a maximum of 6 meters
- Eurofast® Drop Connector or Extension Cordset

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM FKM RKM 57**	TPU, 250 V, 4 A, -40 °C to +75 °C, Minifast® to Eurofast bus power and data drop	
	**RSM RKC 57x-*M-RKM 57**	TPU, 250 V, 4 A, -40 °C to +75 °C, Minifast to Eurofast cordset, bus power and data drop	

Pinouts

Minifast		Eurofast
Male	Female	Female
		

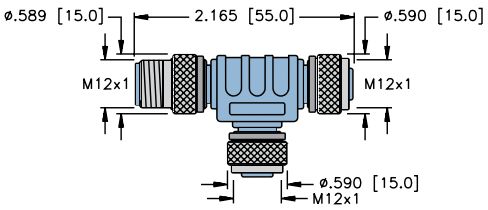
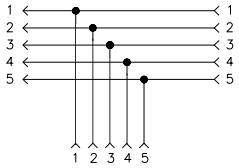
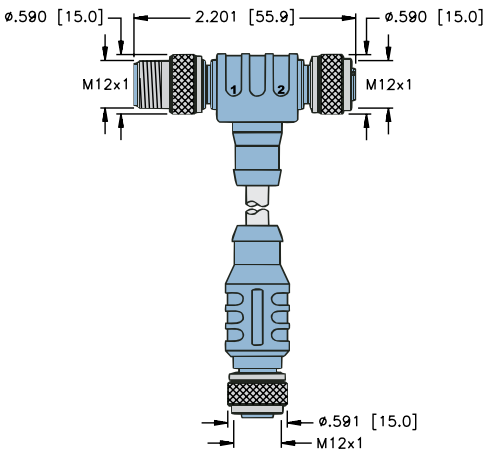
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

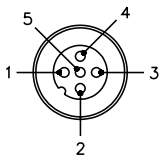
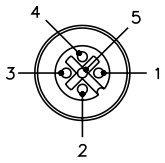
DeviceNet, Eurofast® Bus Tees

- **Creates a Drop or Branch from the Main Bus Line**
- **Cable Drop can be up to a maximum of 6 meters**
- **Eurofast Drop Connector**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSC 2RKC 57**	TPU, 250 V, 4 A, -40 °C to +75 °C, Eurofast trunk and drop	
	RSC 2RKC 57/KS	TPU, 250 V, 4 A, -40 °C to +75 °C, Eurofast trunk and drop, keyway aligns tee in-line on (M8x1) Piconet® boxes	
	**RSC RKC 572-*M/RKC 57**	TPU, 32 V, 4 A (pins 2,3) 1 A (all others), -40 °C to +80 °C	

We reserve the right to make technical alterations without prior notice.

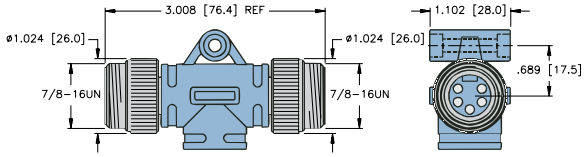
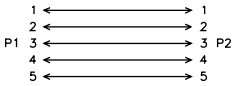
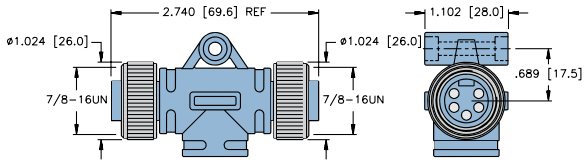
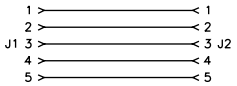
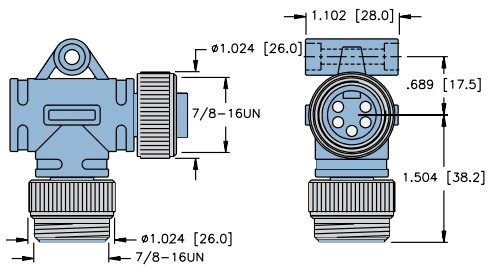
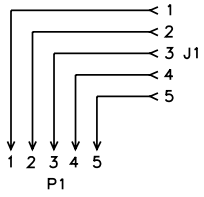
Pinouts

Eurofast	
Male	Female
	

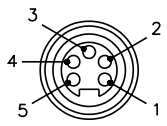
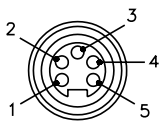
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet, Gender Changers and Elbow Connectors

- **Allows quick and easy changes from Male to Female Connectors**
- **Available in Straight and Right Angle Styles with Minifast® Connectors**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM RSM 57**	TPU, 300 V, 9 A, -40 °C to +80 °C, changes female cordset to male cordset	
	**RKM RKM 57**	TPU, 300 V, 9 A, -40 °C to +80 °C, Changes male cordset to female cordset changes straight male or female cordset to right angle cordset	
	**WSM RKM 57**	TPU, 300 V, 9 A, -40 °C to +80 °C, right angle male to female connector	

Pinouts

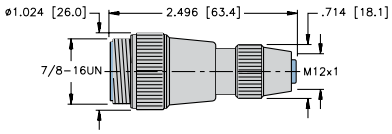
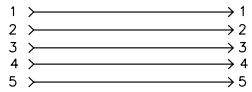
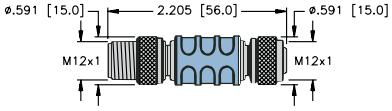
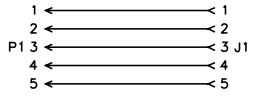
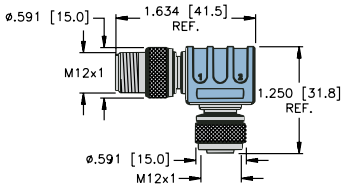
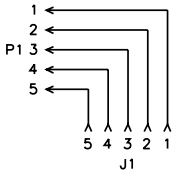
Minifast	
Male	Female
	

We reserve the right to make technical alterations without prior notice.

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

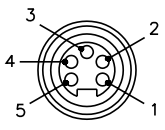
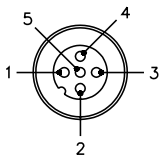
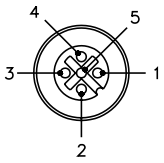
DeviceNet, Gender Changers and Elbow Connectors

- **Allows quick and easy changes from Male to Female and Minifast® to Eurofast® Connectors**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM 57-FK 4.5**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +75 °C, female Eurofast to male Minifast adapter	
	**RSC RKC 57**	Nickel plated CuZn, 250 V, 4 A, -40 °C to +105 °C, male Eurofast to female Eurofast adapter	
	**RSC WKC 57**		

We reserve the right to make technical alterations without prior notice.

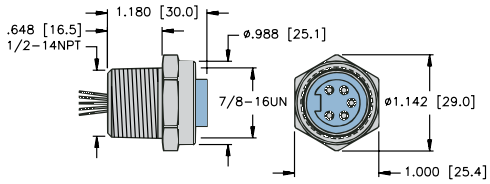
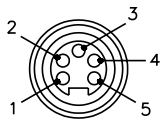
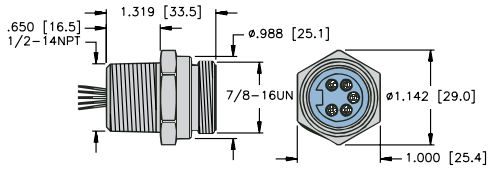
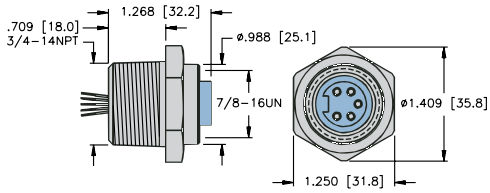
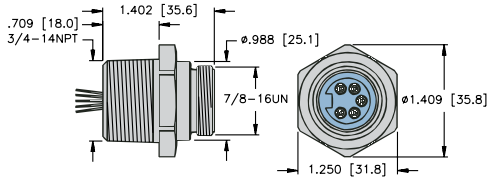
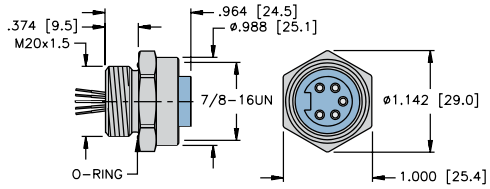
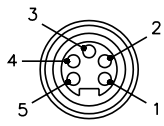
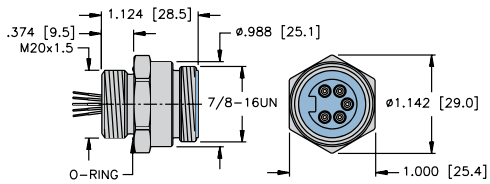
Pinouts

Minifast	Eurofast	
Male	Male	Female
		

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

DeviceNet, (7/8-16 UN) Minifast® Male Receptacles

- **Provides quick connection to Field Devices or Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKF 57../14.5 	**RKF 57-*M/14.5**	**RSF 57-*M/14.5**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	**Female** 
RSF 57../14.5 				
RKF 57../14.75 	**RKF 57-*M/14.75**	**RSF 57-*M/14.75**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 3/4-14 NPT full length threads	
RSF 57../14.75 				
RKF 57../M20 	**RKF 57-*M/M20**	**RSF 57-*M/M20**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, M20x1.5 threads	**Male** 
RSF 57../M20 				

* Length in meters.
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

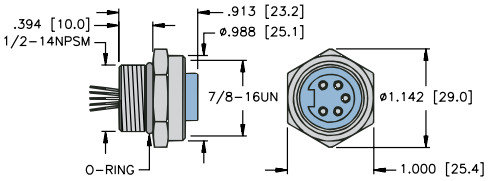
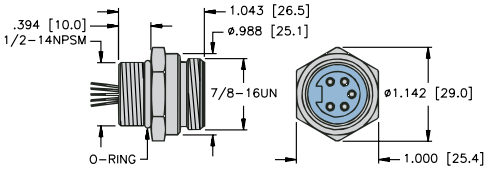
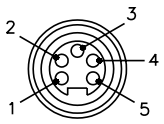
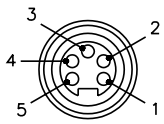
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, (7/8-16 UN) Minifast® Male Receptacles

- **Provides quick connection to Field Devices or Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF 57..  RSF 57.. 	**RKF 57-*M**	**RSF 57-*M**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 1/2-14 NPSM threads	1. GY 2. RD 3. BK 4. WH 5. BU	**Female**  **Male** 

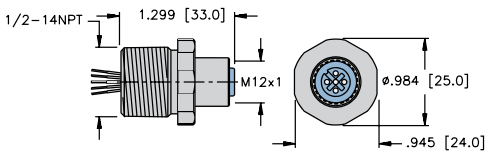
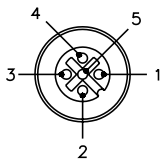
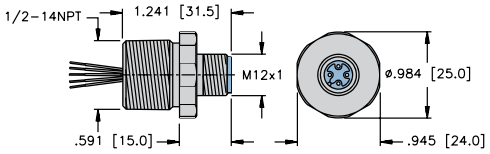
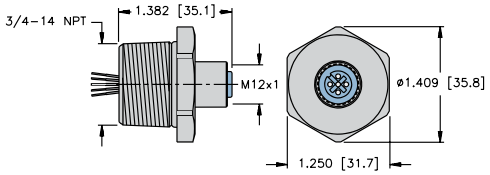
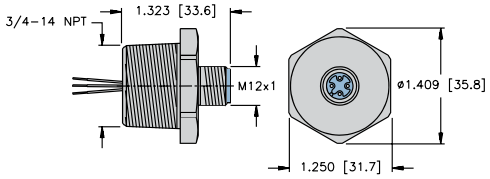
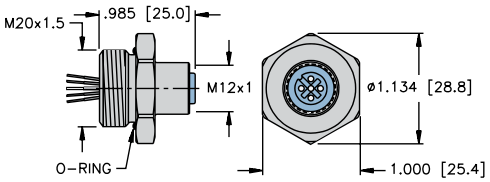
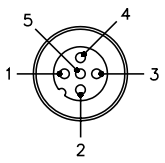
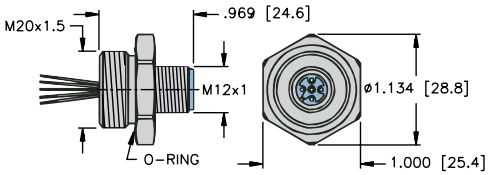
* Length in meters.
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, (M12x1) Eurofast® Male Receptacles

- **Provides quick connection to Field Devices**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK 57../14.5 	**FK 57-*M/14.5**	**FS 57-*M/14.5**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	1. GY 2. RD 3. BK 4. WH 5. BU	Female 
FS 57../14.5 					
FK 57../14.75 	**FK 57-*M/14.75**	**FS 57-*M/14.75**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 3/4-14 NPT full length threads		
FS 57../14.75 					
FK 57.../M20 	**FK 57-*M/M20**	**FS 57-*M/M20**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, M20x1.5 threads		Male 
FS 57../M20 					

* Length in meters.
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.

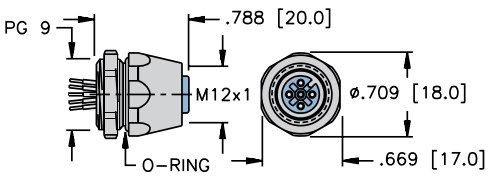
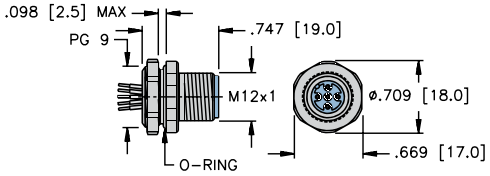
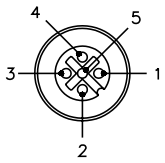
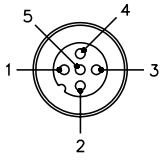
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, (M12x1) Eurofast® Male Receptacles

- **Provides quick connection to Field Devices**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK 57...  FS 57.. 	**FK 57-*M**	**FS 57-*M**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, PG 9 threads	1. GY 2. RD 3. BK 4. WH 5. BU	**Female**  **Male** 

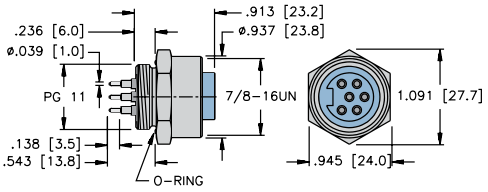
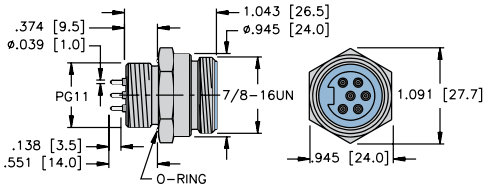
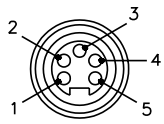
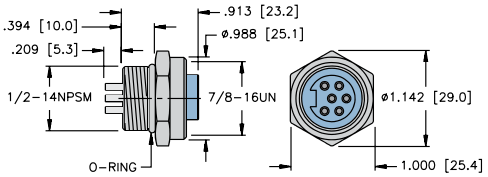
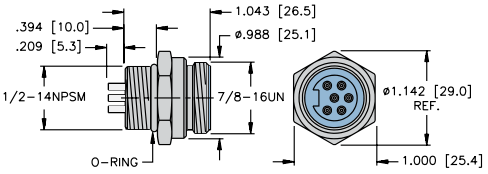
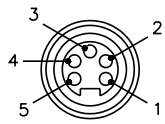
* Length in meters.
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF .."; "RKFV .." indicates 316 stainless steel housing.

We reserve the right to make technical alterations without prior notice.

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

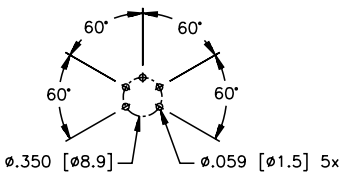
DeviceNet, Minifast® PCB and Solder Cup Receptacles

- **Provides (7/8-16 UN) Minifast connection to Field Devices**

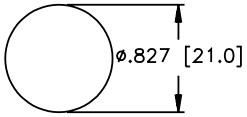
Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF 57 PCB  RSF 57 PCB 	**RKF 57-PCB**	**RSF 57-PCB**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, Minifast PCB pins	1. BARE 2. RD 3. BK 4. WH 5. BU	**Female** 
RKF 57  RSF 57 	**RKF 57**	**RSF 57**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, Minifast solder cups		**Male** 

Standard housing material is nickel plated brass “RSFV ..”; “RKFV ..” indicates 316 stainless steel.

Board Layout (reference only)
FK ... FS



Panel Cutout
FK ... FS



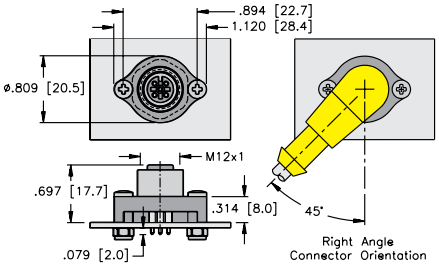
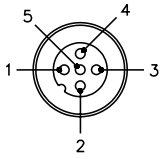
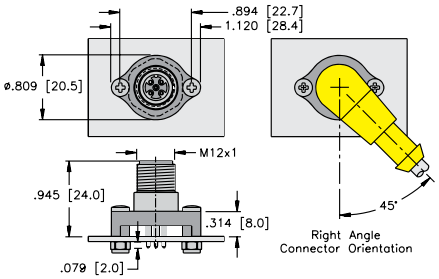
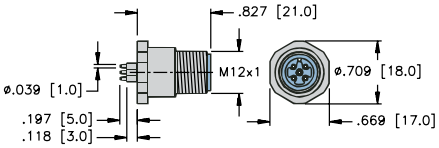
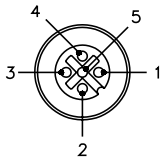
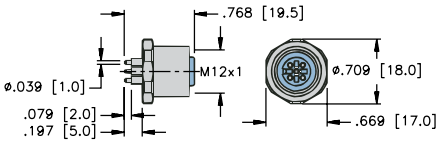
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

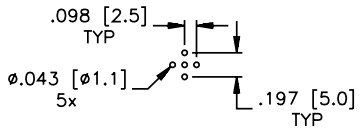
DeviceNet, Eurofast® PCB and Solder Cup Receptacles

- **Provides (M12x1) Eurofast Connection to Field Devices**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK 57-PCB KIT 	**FK 57-PCB KIT**	**FS 57-PCB KIT**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, male Eurofast with mounting kit	1. BARE 2. RD 3. BK 4. WH 5. BU	Male 
FS 57-PCB KIT 					
FS 57-PCB 	**FK 57-PCB**	**FS 57-PCB**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, male Eurofast		Female 
FK 57-PCB 					

Standard housing material is nickel plated brass "FSV ..."; "FKV .." indicates 316 stainless steel.

Board Layout (reference only)
FK ... FS

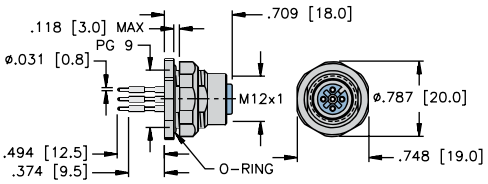
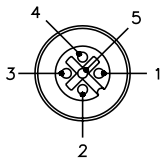
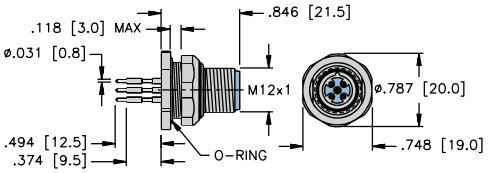
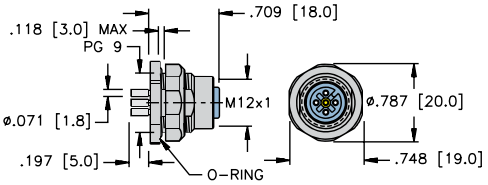
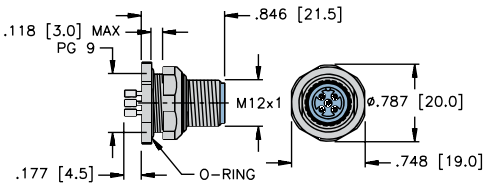
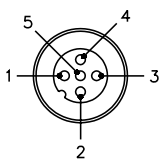
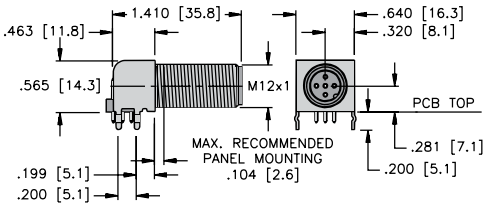


We reserve the right to make technical alterations without prior notice.

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

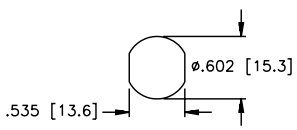
DeviceNet, Eurofast® PCB Pins and Solder Cup Receptacles

- **Provides (M12x1) Eurofast Connection to Field Devices**

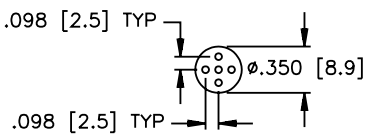
Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKFD 57 PCB 	**FKFD 57-PCB**	**FSFD 57-PCB**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, male Eurofast PCB pins	1. BARE 2. RD 3. BK 4. WH 5. BU	Female 
FSFD 57 PCB 					
FKFDL 57 	**FKFDL 57**	**FSFDL 57**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, male Eurofast solder cups		
FSFDL 57 					Male 
WFS 57 PCB 	**WFS 57-PCB**		Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, male Eurofast right angle PCB pins		

Standard housing material is nickel plated brass "FKFD .."; "FKFDV .." indicates 316 stainless steel.

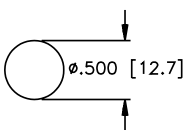
Panel Cutout FKFD … FSFD



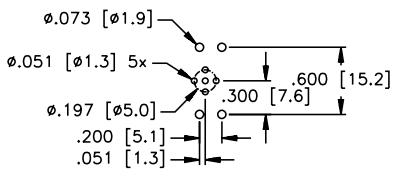
Board Layout (reference only) FKFD … FSFD



Panel Cutout WFS



Board Layout (reference only) WFS



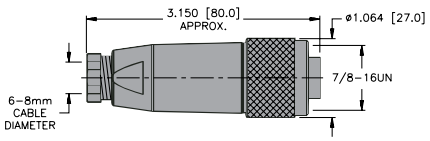
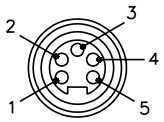
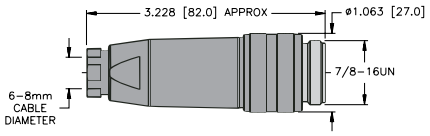
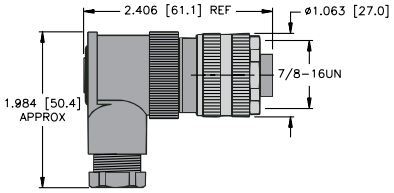
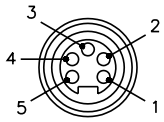
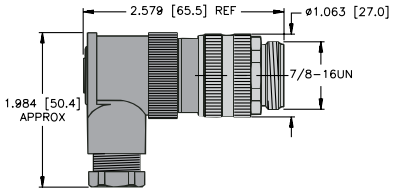
We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

DeviceNet, Minifast® Field Wireable Connectors

- **Allows for quick connection when Pre-Molded Cables not available**
- **Available for Male and Female connectors**
- **Color Coded Wire Connections for DeviceNet**

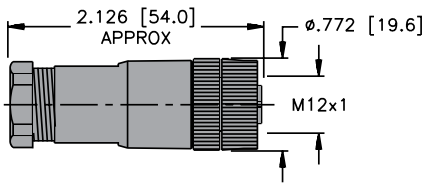
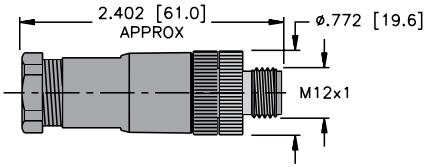
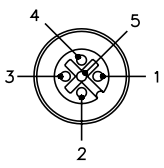
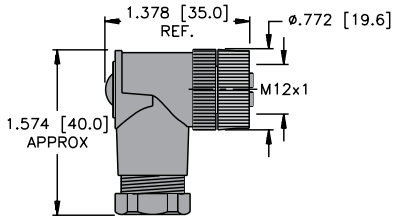
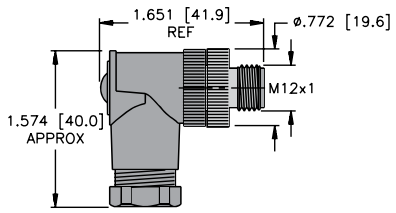
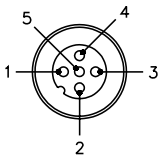
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 4151.. 	**B 4151-0/9/DNET**	**BS 4151-0/9/DNET**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 85 °C, 250 V, 9 A, mates with all 5-pin cordsets and receptacles	**Female** 
BS 4151.. 	**B 4251-0/9/DNET**	**BS 4251-0/9/DNET**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 85 °C, 250 V, 9 A, mates with all 5-pin cordsets and receptacles	
B 4251.. 	**B 4151-0/13.5/DNET**	**BS 4151-0/13.5/DNET**	Glass filled nylon, PG 13.5 cable gland, accepts 10-12 mm cable diameter, screw terminals 85 °C, 250 V, 9 A, mates with all 5-pin cordsets and receptacles	**Male** 
BS 4251.. 	**B 4151-0/16/DNET**	**BS 4151-0/16/DNET**	Glass filled nylon, PG 16 cable gland, accepts 12-14 mm cable diameter, screw terminals 85 °C, 250 V, 9 A, mates with all 5-pin cordsets and receptacles	

We reserve the right to make technical alterations without prior notice.

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

DeviceNet, Eurofast® Field Wireable Connectors

- **Allows for quick connection when Pre-Molded Cables not available**
- **Available for Male and Female connectors in Straight or Right-Angle configurations**
- **Color Coded Wire Connections for DeviceNet**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81...  **BS 81...** 	**B 8151-0/PG9/DNET**	**BS 8151-0/PG9/DNET**	PBT, Black, PG 9 cable gland, accepts 4-8 mm cable diameter, screw terminals, 85 °C, 125 V, 4 A, mates with 5-pin cordsets and receptacles	**Female** 
B 82...  **BS 82...** 	**B 8251-0/PG9/DNET**	**BS 8251-0/PG9/DNET**	PBT, Black, PG 9 cable gland, accepts 4-8 mm cable diameter, screw terminals, 85 °C, 125 V, 4 A, mates with 5-pin cordsets and receptacles	**Male** 

We reserve the right to make technical alterations without prior notice.

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

DeviceNet™ Physical Media Connectivity

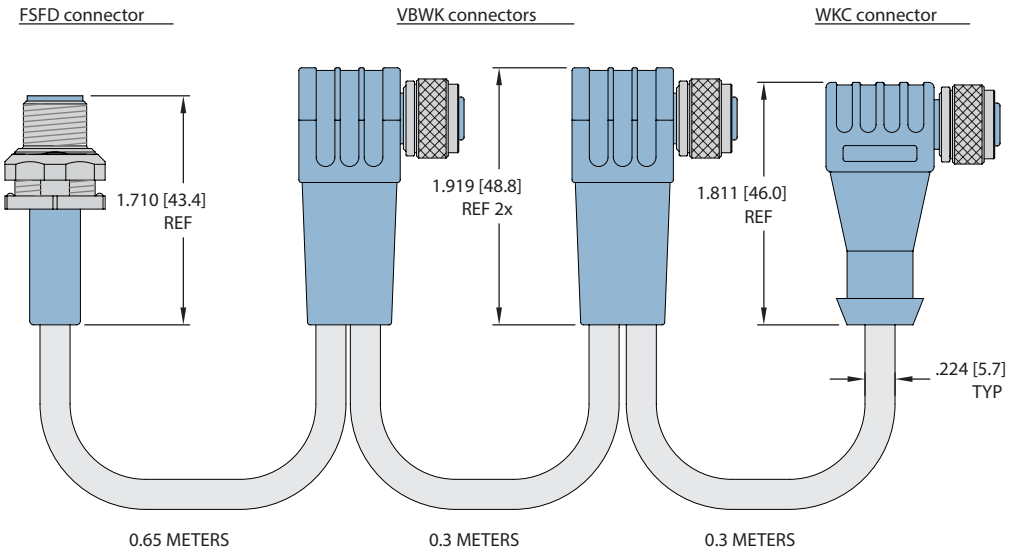
DeviceNet, Eurofast® Daisy Chain Configurations

- **Multi-drop Harnesses designed for OEM applications**
- **Provides cost effective solution vs. Single Tees and Drops**

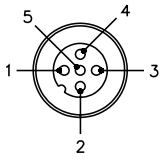
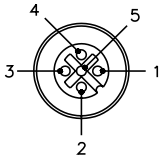
Part Number	Features
FSFD 2VBWK WKC 5724-DCL	TPU, 250 V, 4 A, -40 °C to +75 °C, available in custom configurations including length, number of drops and end connector styles

Consult factory for other designs.

We reserve the right to make technical alterations without prior notice.



Pinouts

Eurofast	
Male	**Female**
	

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

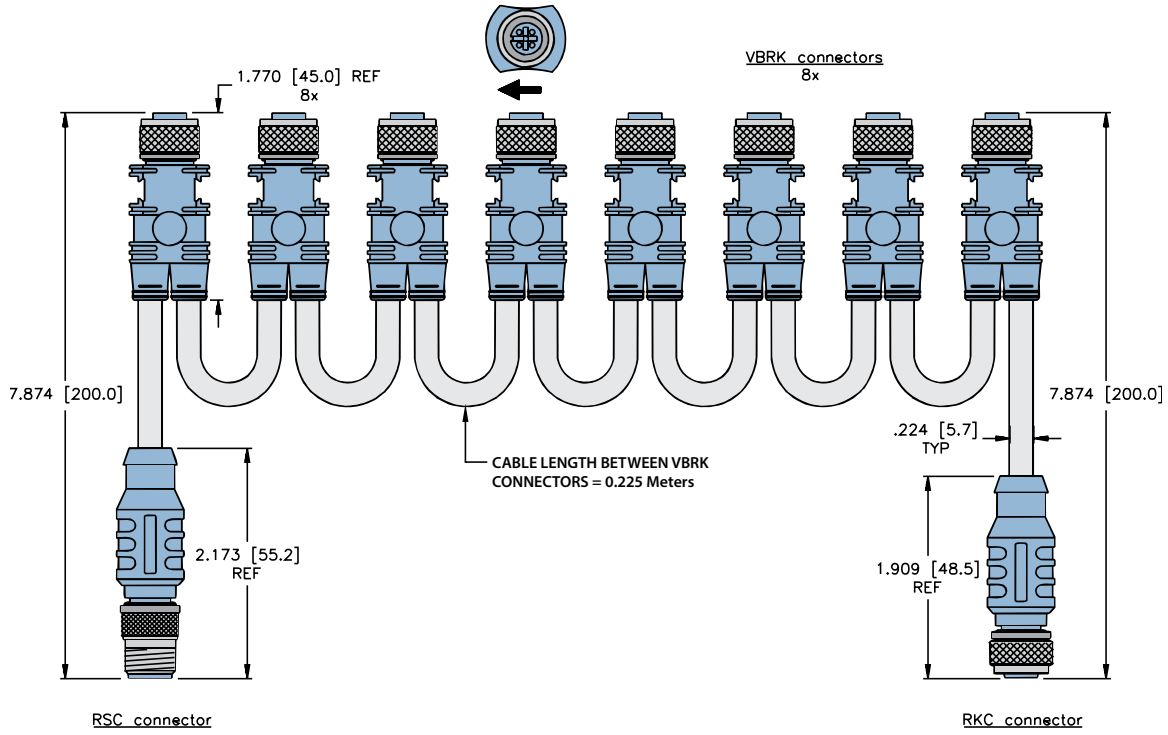
DeviceNet, Eurofast® Daisy Chain Configurations

- **Multi-drop Harnesses designed for OEM applications**
- **Provides cost effective solution vs. Single Tees and Drops**

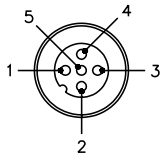
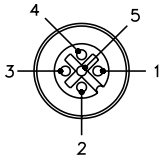
Part Number	Features
RSC 8VBRK RKC 5724-DCL	TPU, 250 V, 4 A, -40 °C to +75 °C, available in custom configurations including length, number of drops and end connector styles

Consult factory for other designs.

We reserve the right to make technical alterations without prior notice.



Pinouts

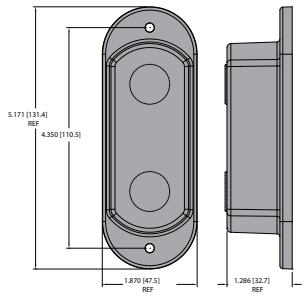
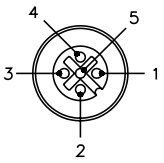
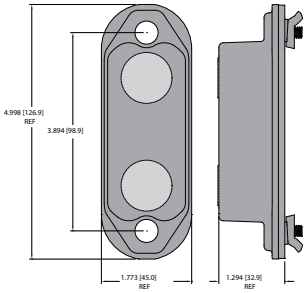
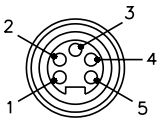
Eurofast	
Male	**Female**
	

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

DeviceNet™ Physical Media Connectivity

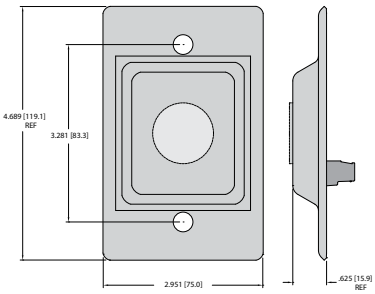
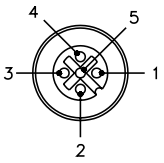
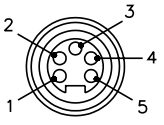
Conduit Adapters

- Converts Standard Conduits to Quick Disconnect
- Fiberglass Reinforced Nylon Housings
- Nickel Plated Brass Connectors available
- Gasket and Mounting Screws provided
- IP67

Housing Style	1-Port Part Number	2-Port Part Number	Specifications	Pinout
	BCA-57-E123	BCA-57-E223	3/4" Form 8 or Mark 9 conduit to M12x1 adapter, -30 °C to +80 °C (-22 °F to +176 °F)	Female 
	BCA-57-M123	BCA-57-M223	3/4" Form 8 or Mark 9 conduit to 7/8"-16 UN, -40 °C to +75 °C (-40 °F to +167 °F)	
	BCA1-F7-57-M123	BCA1-F7-57-M223	1" Form 7 conduit adapter, -40 °C to +75 °C (-40 °F to +167 °F)	Female 

Wall Plate Adapters

- Attaches to Standard Single Gang Electrical Box
- Stainless Steel with Stainless Steel Connectors
- Gasket and Mounting Screws provided
- IP67

Housing Style	M12x1 Part Number	7/8-16UN Part Number	Specifications	Pinout
	BPA-57-E113	BPA-57-M113	IP67 rated, -40 °C to +75 °C (-40 °F to +167 °F)	Female  Female 

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	N4
Cordsets	N8
Tees	N13
Receptacles	N17
Field Wireables	N21

Features

- Cables that meet the requirements of Foundation fieldbus FF-844 Type A Cable
- ITC/PLTC listed cable (CSA FT4)
- Expose Run (ER) and Direct Buried (DB) listed cable
- Oil resistant II and sunlight resistant
- 7/8 and M12 connectors
- Up to 9 Amps and 600 Volt rated
- IP67/IP69K rated

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

FOUNDATION fieldbus General Specifications

FOUNDATION fieldbus is a communication protocol and physical method to interconnect smart devices such as temperature transmitters, pressure transmitters and valve actuators. The physical layer conforms to ISA SP50.02 and IEC 1158-2 standards for fieldbuses.

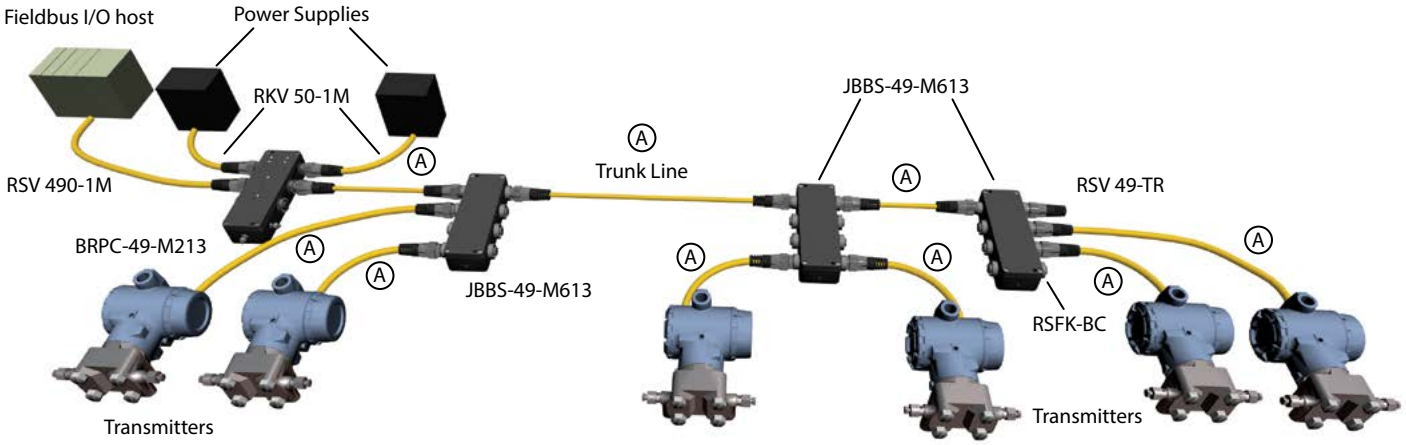
Fieldbus technology allows many smart devices to share one communication medium. The digital communication signal is superimposed onto a DC carrier. This reduces the amount of terminations to connect all the field devices to a host system and allows greater flexibility for future additions of I/O points.

A FOUNDATION fieldbus device is addressable and can store and transmit data. The devices can store values, track changes and use pre-set alarms to trigger. Based on pre-defined tag names, host systems can read transmitter values such as temperature and pressure to set values of a valve actuator.

Digital signal encoding is done using Manchester BiPhase-L and error checking is done with the CRC method. FOUNDATION fieldbus has two types of devices - A Basic Device (BD) which reads inputs, track values and set outputs if programmed to do so, and a Link Active Scheduler (LAS) which performs the same features as a BD and handles network communication timing between all the active devices on the network.

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

Topology



A = RSV RKV 490-1M

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

FOUNDATION™ fieldbus Physical Media Connectivity

Minifast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

W	K	M		49x	-	*M

7/8-16 UN (Minifast)

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Coupling Nut Material

(blank) = Nylon
M = Nickel Plated Brass
V = Stainless Steel

Length in Meters (*)

Consult factory for other lengths.

Protocol

49 = FOUNDATION fieldbus

Minifast Receptacle Part Number Key

R	K	F		V		49x	-	*M	/14.5

7/8-16 UN (Minifast)

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Designator for Receptacle

Mounting Style

(Blank) = Front Mount
P = Back Panel Mount

Material

(Blank) = Nickel Brass
K = Nylon
V = Stainless Steel

Connection Type

(Blank) = Leads or PCB Pins
L = Solder Cup

Connection Thread

(Blank) = 1/2-14 NPSM Threads
/14.5 = 1/2-14 NPT Full Length Threads
/14.75 = 3/4-14 NPT Full Length Threads
/M20 = M20 Threads

Length in Meters (*)

Consult factory for other lengths.

Protocol

49 = FOUNDATION fieldbus

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

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	W	V		49x	-	*M

M12x1 (Eurofast)
R = Straight
W = Right Angle

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body
C = Large Plug Body
G = Robust Large Plug Body
S = Shielded to Coupling Nut

Keying Options
(blank) = Standard Key

Coupling Nut Material
(Blank) = Nickel Plated Brass
K = Nylon
V = Stainless Steel

Cable Type (x)
49 = FOUNDATION fieldbus

Length in Meters (*)
Consult factory for other lengths.

Eurofast Receptacle Part Number Key

F	S	F	V			49x	-	*M	/14.5

M12x1 (Eurofast)

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Housing Style
(Blank) = Front Mount
FD = Standard Back Panel Mount
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material
(blank) = Nickel Plated Brass
V = Stainless Steel

Keying Options
(Blank) = Standard Key

Cable Type (x)
49 = FOUNDATION fieldbus

Length in Meters (*)
Consult factory for other lengths.

Connection Thread
(Blank) = PG9 Threads
/14.5 = 1/2-14 NPT Full Length Threads
/14.75 = 3/4-14 NPT Full Length Threads
/M20 = M20 Threads

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

FOUNDATION™ fieldbus Physical Media Connectivity

Cable Specifications (with ground)

- **Cables are compliant with FOUNDATION fieldbus FF-844 Cable Specification for Type A cable, IEC 61158-2 and ISA/SP50**
- **Cables are available in 3-wire versions with a Device Ground or 2-wire versions**

Type A Cable Specifications

- Temperature range: -40 °C to +105 °C
- UV Resistant and Oil Resistant
- PLTC and ITC Listed (CSA FT1, FT4)
- Exposed Run (ER) and Direct Buried (DB) Listed
- Maximum Attenuation at 1.25 f_r (39 kHz) = 3.0 dB/km
- Characteristic Impedence 100 Ω ± 10 Ω @ 31.25 KHz
- Capacitance: 20 pF/Ft nominal
- Inductance: 0.22 µH/Ft. nominal

Figure A

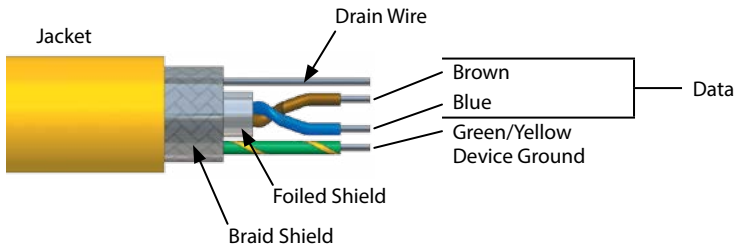
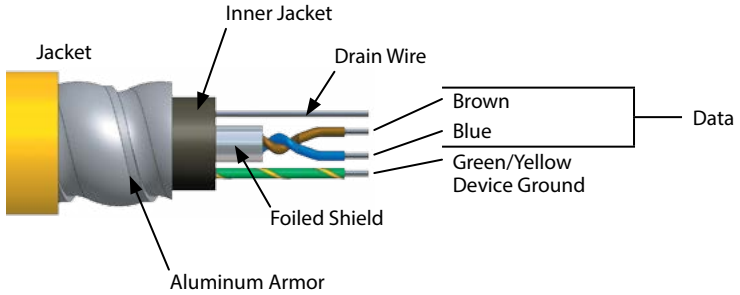


Figure B



Type	Approvals	Data Pair		Device Ground	Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Material Color Nominal O.D.	Type Drain Wire	
490 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, YELLOW, 8.4 mm (.330 in)	Foil, 20 AWG	RB50693-*M, 66 lbs.
490B 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, BLUE, 8.4 mm (.330 in)	Foil, 20 AWG	B50783-*M, 66 lbs.
492A 105 °C, 300 V	UL ITC-ER DB, CSA ACIC HL-ABCD, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, YELLOW, 15.6 mm (.615 in)	Foil/armor, 20 AWG	RB50874-*M, 184 lbs.
492BA 105 °C, 300 V	UL ITC-ER DB, CSA ACIC HL-ABCD, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, BLUE, 15.6 mm (.615 in)	Foil/armor, 20 AWG	RB50803-*M, 184 lbs.

* Indicates length in meters.
Standard cable spool lengths are 30, 75, 100, 150, 200, 225 and 300 meters.

We reserve the right to make technical alterations without prior notice.

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

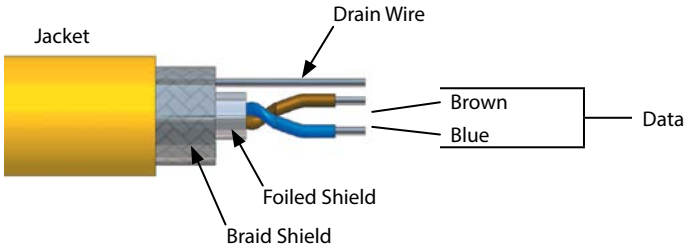
Cable Specifications (without ground)

- **Cable that Meets the Requirements of ISA/SP50 and FOUNDATION™ fieldbus Requirements for Type A Cable**
- **Cables are available in 3-wire versions with a Device Ground or 2-wire versions**

Type A Cable Specifications

- Temperature range: -40 °C to +105 °C
- UV Resistant and Oil Resistant
- PLTC and ITC Listed (CSA FT1, FT4)
- Exposed Run (ER) and Direct Buried (DB) Listed
- Maximum Attenuation at 1.25 f_r (39 kHz) = 3.0 dB/km
- Characteristic Impedence 100 Ω ± 10 Ω @ 31.25 KHz
- Capacitance: 20 pF/Ft nominal
- Inductance: 0.22 µH/Ft. nominal

Figure C



Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number/ Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
493 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	PVC, YELLOW, 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50784-*M, 66 lbs.
493B 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	PVC, BLUE, 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50786-*M, 66 lbs.
493O 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	PVC, ORANGE, 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50785-*M, 66 lbs.
496 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X16 AWG BU/BN	4.05 Ohms XLPE	PVC, YELLOW, 9.1 mm (.360 in)	Foil, 18 AWG	RB50891-*M, 69 lbs.
496BK 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X16 AWG BU/BN	4.05 Ohms XLPE	PVC, BLACK, 9.1 mm (.360 in)	Foil, 18 AWG	RB51300-*M, 69 lbs.

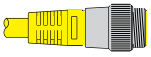
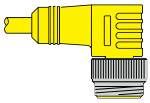
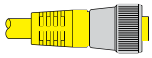
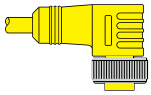
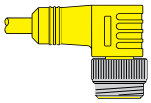
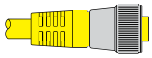
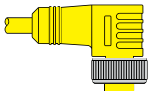
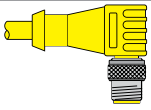
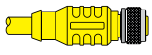
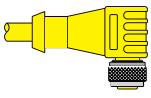
* Indicates length in meters.
Standard cable spool lengths are 30, 75, 100, 150, 200, 225 and 300 meters.

We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

Cable and Cordset Selection Matrix

		Minifast®				Eurofast®
		(Male)		(Female)		Male
		1  RSV	2  WSV	3  RKV	4  WKV	7 RSCV
	Bare	RSV 49x-*M	WSV 49x-*M	RKV 49x-*M	WKV 49x-*M	RSCV 49x-*M
Minifast (Male)	1 RSV	RSV RSV 49x-*M	RSV WSV 49x-*M	RSV RKV 49x-*M	RSV WKV 49x-*M	RSV RSCV 49x-*M
Minifast (Male)	2 WSV 		WSV WSV 49x-*M	WSV RKV 49x-*M	WSV WKV 49x-*M	WSV RSCV 49x-*M
Minifast (Female)	3 RKV 			RKV RKV 49x-*M	RKV WKV 49x-*M	RKV RSCV 49x-*M
Minifast (Female)	4 WKV 				WKV WKV 49x-*M	WKV RSCV 49x-*M
Eurofast (Male)	7 RSCV					RSCV RSCV 49x-*M
Eurofast (Male)	8 WSCV 					
Eurofast (Female)	9 RKCV 					
Eurofast (Female)	10 WKCV 					

See pages N10 - N11 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

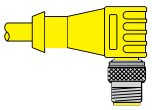
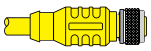
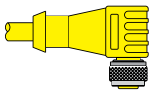
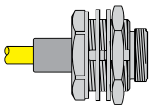
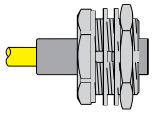
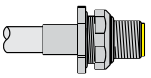
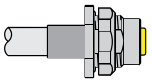
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15....50 Meters. Consult factory for other lengths.

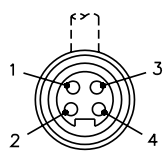
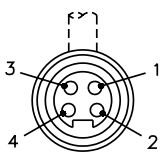
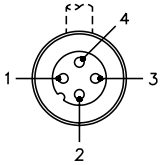
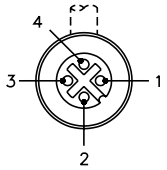
For stainless steel coupling nuts change part number RSM … to RSV, WSM … to WSV.

We reserve the right to make technical alterations without prior notice.

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

Cable and Cordset Selection Matrix

Eurofast®			Minifast® Bulkhead		Eurofast Bulkhead	
Male	Female		Male	Female	Male	Female
8  WSCV	9  RKCV	10  WKCV	5  RSFPV	6  RKFPV	11  FSFDV	12  FKFDV
WSCV 49x-*M	RKCV 49x-*M	WKCV 49x-*M	RSFPV 49x-*M	RKFPV 49x-*M	FSFDV 49x-*M	FKFDV 49x-*M
RSV WSCV 49x-*M	RSV RKCV 49x-*M	RSV WKCV 49x-*M	RSV RSFPV 49x-*M	RSV RKFPV 49x-*M	RSV FSFDV 49x-*M	RSV FKFDV 49x-*M
WSV WSCV 49x-*M	WSV RKCV 49x-*M	WSV WKCV 49x-*M	WSV RSFPV 49x-*M	WSV RKFPV 49x-*M	WSV FSFDV 49x-*M	WSV FKFDV 49x-*M
RKV WSCV 49x-*M	RKV RKCV 49x-*M	RKV WKCV 49x-*M	RKV RSFPV 49x-*M	RKV RKFPV 49x-*M	RKV FSFDV 49x-*M	RKV FKFDV 49x-*M
WKV WSCV 49x-*M	WKV RKCV 49x-*M	WKV WKCV 49x-*M	WKV RSFPV 49x-*M	WKV RKFPV 49x-*M	WKV FSFDV 49-*M	WKV FKFDV 49x-*M
RSCV WSCV 49x-*M	RSCV RKCV 49x-*M	RSCV WKCV 49x-*M	RSCV RSFPV 49x-*M	RSCV RKFPV 49x-*M	RSCV FSFDV 49x-*M	RSCV FKFDV 49x-*M
WSCV WSCV 49x-*M	WSCV RKCV 49x-*M	WSCV WKCV 49x-*M	WSCV RSFPV 49x-*M	WSCV RKFPV 49x-*M	WSCV FSFDV 49x-*M	WSCV FKFDV 49x-*M
	RKCV RKCV 49x-*M	RKCV WKCV 49x-*M	RKCV RSFPV 49x-*M	RKCV RKFPV 49x-*M	RKCV FSFDV 49x-*M	RKCV FKFDV 49x-*M
		WKCV WKCV 49x-*M	WKCV RSFPV 49x-*M	WKCV RKFPV 49x-*M	WKCV FSFDV 49x-*M	

Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Blue (- Voltage) 2. Brown (+ Voltage) 3. Bare (Shield Drain Wire) 4. Green/Yellow (Ground)		

We reserve the right to make technical alterations without prior notice.

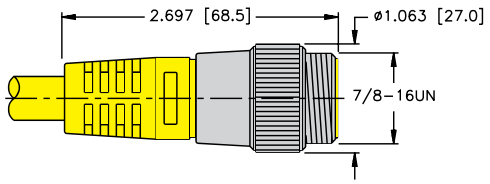
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Cordset and Receptacle Connector Dimensions

Specifications

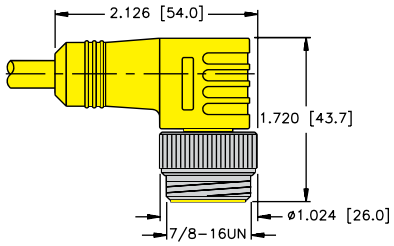
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	300 V
Contact Carrier:	TPU	**Rated Current:**	9 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221°F)

1



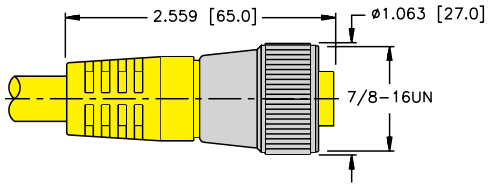
RSV .. **Page N8**

2



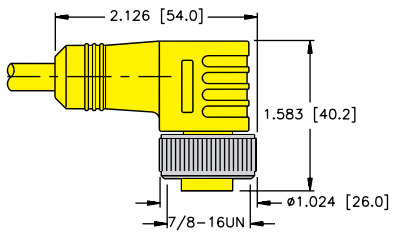
WSV .. **Page N8**

3



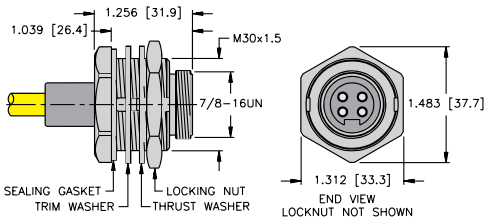
RKV .. **Page N8**

4



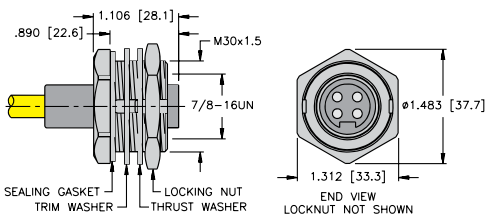
WKV .. **Page N8**

5



RSFPV .. **Page N9**

6



RKFPV .. **Page N9**

We reserve the right to make technical alterations without prior notice.

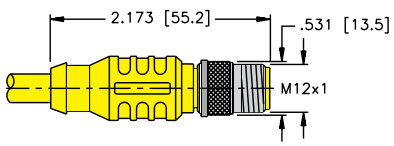
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Cordset and Receptacle Connector Dimensions

Specifications

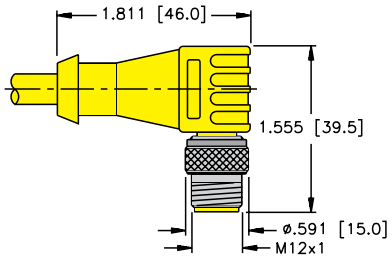
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221°F)

7



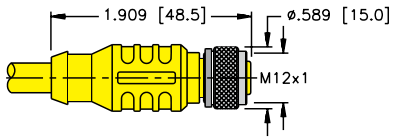
RSCV .. **Page N8**

8



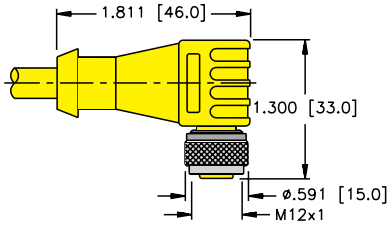
WSCV .. **Page N8**

9



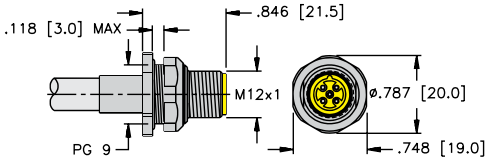
RKCV .. **Page N8**

10



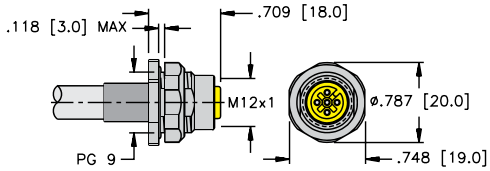
WKCV .. **Page N8**

11



FSFDV .. **Page N9**

12



FKFDV .. **Page N9**

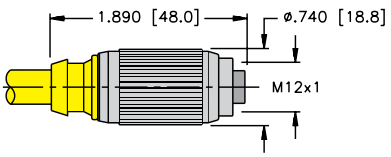
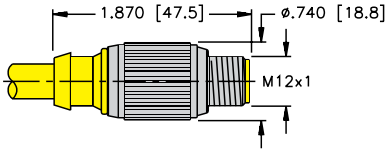
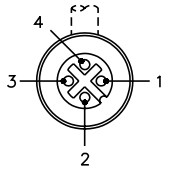
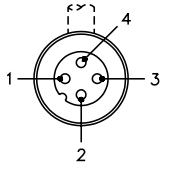
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

Eurofast® Heavy Duty Cordsets

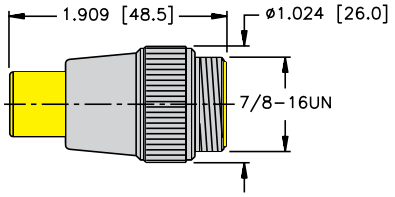
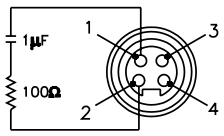
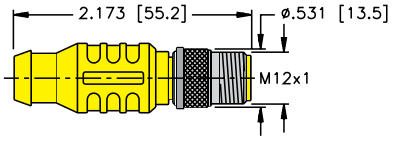
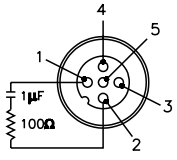
- **Heavy Duty Coupling Nut completely supports the Molded Plug Body**
- **Provides superior strength**

Housing Style	Female Part Number	Female Part Number	Features	Pinout
RKGV..  **RSGV..**  	**RKGV-49x-*M**	**RSGV-49x-*M**	TPU Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, heavy coupling nut completely supports the molded plug body to provide superior strength	**Female**  **Male** 

* Indicates length in meters.
x Indicates cable type.
For nickel plated brass coupling nut change: RSGV … to RSG … or RKGV … to RKG …

Terminating Resistors

- **Terminating Resistors stabilize and minimize Reflections on the Bus Line**
- **A Terminating Resistor is required at the beginning and end of the Main Bus Line**

Housing Style	Part Number	Features	Pinout
 	**RSV 49-TR**	Nickel plated brass or stainless steel, 250 V, 4 A, -40 °C to +75 °C, male Minifast® connector	**Male** 
 	**RSEV 49-TR**	Nickel plated brass or stainless steel, 250 V, 4 A, -40 °C to +75 °C, male Eurofast connector	**Male** 

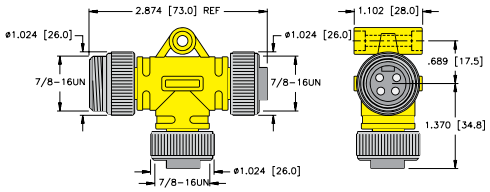
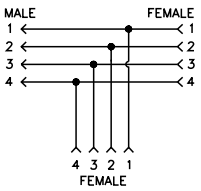
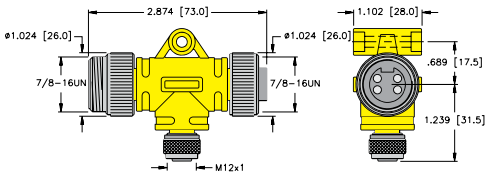
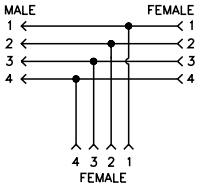
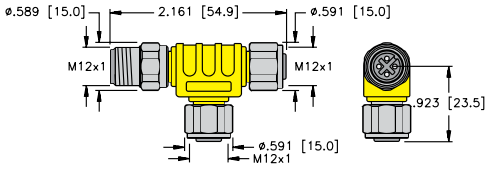
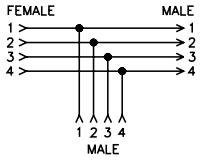
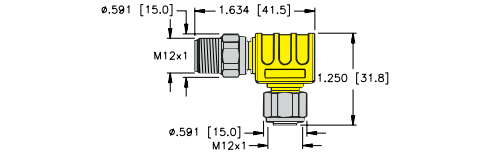
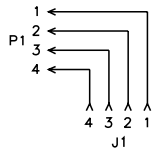
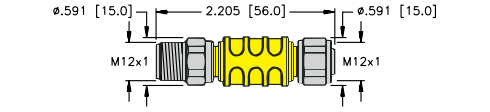
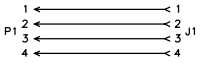
We reserve the right to make technical alterations without prior notice.

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

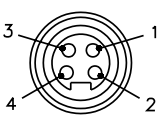
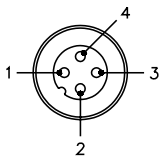
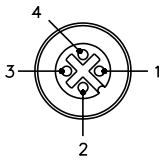
TURCK

Tees

- Creates a Drop or Branch from the Main Bus Line
- Minifast® Connectors on Bus Line
- Minifast or Eurofast® Connectors on Dropline

Housing Style	Part Number	Features	Wiring Diagrams
	**RSV-2RKV 49**	TPU, 250 V, 4 A, -40 °C to +75 °C, data, ground, shield stainless steel coupling nuts	
	**RSV FKV RKV 49**	TPU, 250 V, 4 A, -40 °C to +75 °C, data, ground, shield stainless steel coupling nuts	
	**RSCV 2RKCV 49**	TPU, 250 V, 4 A, -40 °C to +75 °C, stainless steel coupling nuts	
	**RSCV WKCV 49**	TPU, 250 V, 4 A, -40 °C to +75 °C, stainless steel coupling nuts	
	**RSCV RKCV 49**	TPU, 250 V, 4 A, -40 °C to +75 °C, stainless steel coupling nuts	

Pinouts

Minifast		Eurofast	
Male	Female	Male	Female
			

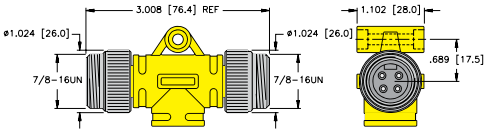
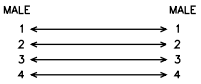
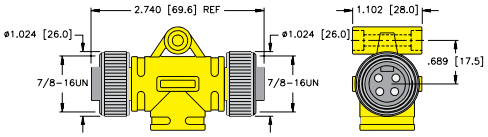
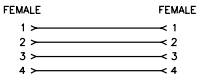
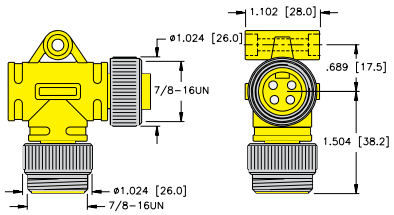
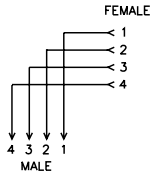
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

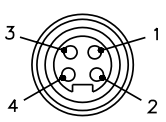
Gender Changers and Elbow Connectors

- **Allows quick and easy changes from Male to Female Minifast® Connectors**

Housing Style	Part Number	Specs	Application	Wiring Diagrams
	**RSV RSV 49**	TPU 250 V, 4 A -40 °C to +75 °C	Male Minifast Gender Changer • Changes female cordset to male receptacle	
	**RKV RKV 49**		Female Minifast Gender Changer • Changes female cordset to male receptacle	
	**WSV RKV 49**		Minifast Elbow • Right angle male to female connector	

We reserve the right to make technical alterations without prior notice.

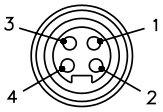
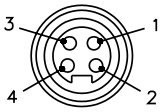
Pinouts

Minifast	
Male	Female
	

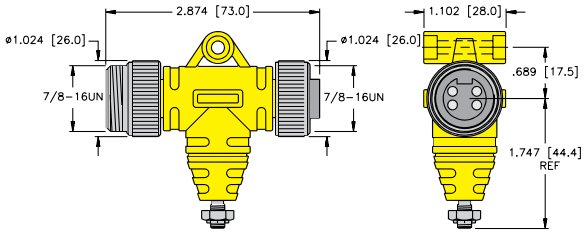
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Surge Suppressor

- **Protects Data Communication Lines (V+ and V-)**
- **Absorbs the front end of the Transient, responding in less than a Nanosecond**
- **Diverts the Surge Energy to Ground**

Housing	Part Number	Features	Application	Pinout
See Drawing 1	**RSV RKV 49 SS**	**Electrical** Contact Carrier Material . . . . . Thermoplastic Polyurethane Mold Material/Color . . . . . Thermoplastic Polyurethane/Yellow Contact Material/Plating . . . . . Gold-Plated Brass Coupling Nut Material . . . . . Stainless Steel Max. Operating Voltage . . . . . 36 VDC Max. Operating Current . . . . . 600 mA Max. Clamping Voltage . . . . . 58 V Surge Current (8/20µs ≤5 shots) . . . . . 20kA Temperature Rating . . . . . -40 °C to +85 °C Protection Class (VDE 0110 b) . . . . . Meets NEMA 1,3,4,6,13 Insulation Resistance . . . . . ≥40 MΩ Capacitance Between V+, V- at 24 V . . . . 0.4nF **Mechanical** • Ground Stud: 10-32 stainless steel • Operating temperature: -40 °C to +85 °C	Male and Female Minifast®, 4-pin	**Female**  **Female** 

1



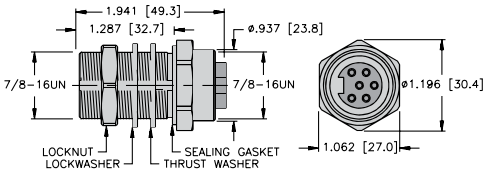
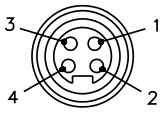
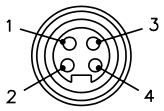
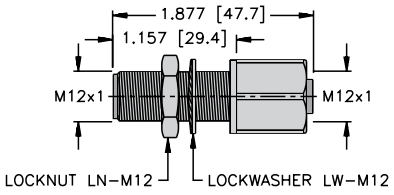
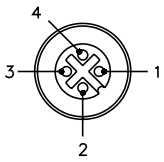
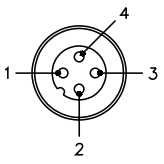
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

Feed Through Connectors

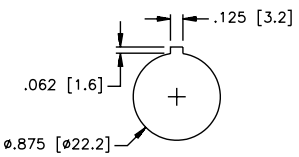
- **Receptacles provide transition from Male to Female Connectors**
- **Available for Bulkhead and Feed Through applications**

Housing Style	Part Number	Features	Pinout
	**RSFV RKFV 49/22**	Stainless steel, 300 V, 9 A, -40 °C to +75 °C, straight male/female feed-through, for use with Minifast® cordsets	**Female**  **Male** 
	**FKV FSV 49/M12**	Stainless steel, 250 V, 4 A, -40 °C to +75 °C, straight male/female connector, for use with Eurofast® cordsets	**Female**  **Male** 

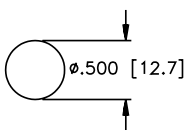
Standard housing material is nickel plated brass. “RSF RKF ..”; “RSFV RKFV ..” indicates stainless steel housing.

We reserve the right to make technical alterations without prior notice.

Panel Cutout RSFV RKFV 48/22



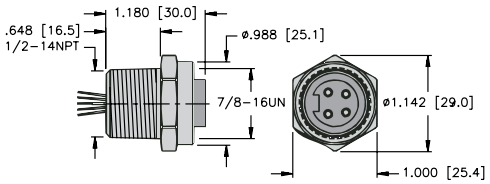
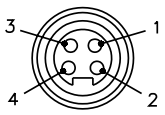
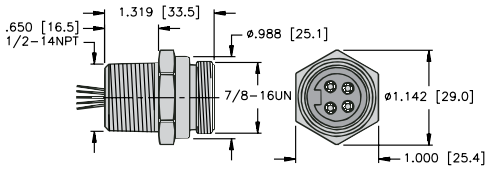
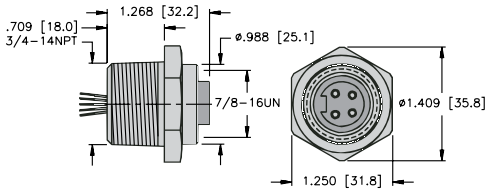
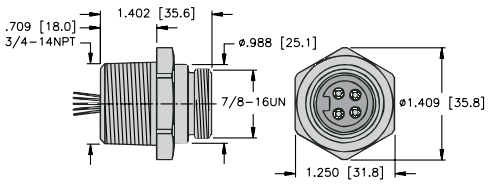
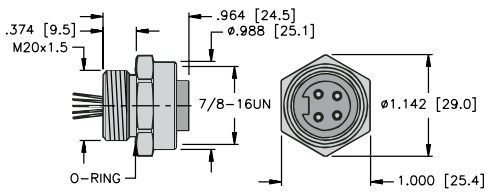
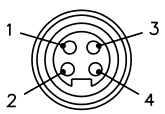
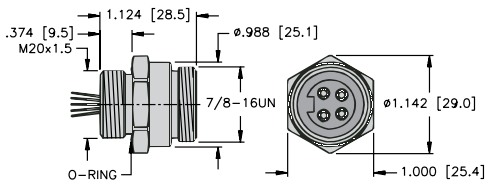
Panel Cutout WFS



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

(7/8-16 UN) Minifast® Receptacles

- **Provides quick connection to Field Devices**
- **available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKFV../14.5 	**RKFV 49-*M/14.5**	**RSFV 49-*M/14.5**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	**Female** 
RSFV../14.5 				
RKFV../14.75 	**RKFV 49-*M/14.75**	**RSFV 49-*M/14.75**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 3/4-14 NPT full length threads	
RSFV../14.75 				
RKFV..*M20 	**RKFV 49-*M/M20**	**RSFV 49-*M/M20**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, M20x1.5 threads	**Male** 
RSFV..*M20 				

Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass housing. "RKF .."; "RKFV .." indicates 316 stainless steel.
For locknuts to be included, add "W/LN" to the end of the part number.

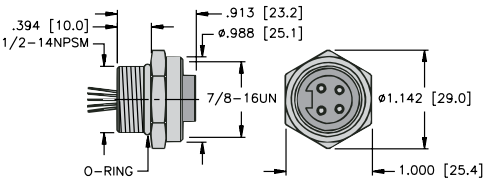
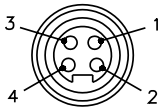
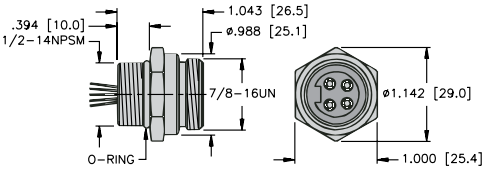
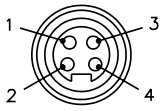
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

(7/8-16 UN) Minifast® Receptacles

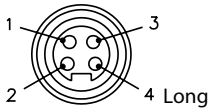
- **Provides quick connection to Field Devices**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKFV..*M 	**RKFV 49-*M**	**RSFV 49-*M**	Nickel plated CuZn or stainless steel, 300 V, 9 A, -40 °C to +105 °C, 1/2-14 NPSM threads	**Female** 
RSFV..*M 				**Male** 

Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass housing. "RKF ..."; "RKFV .." indicates 316 stainless steel.
For locknuts to be included, add "W/LN" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

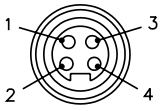
Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = N/C
4 = GN/YE (ground)

49 Series

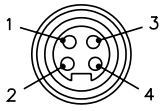
Male End View



1 = BU
2 = BN
3 = N/C
4 = N/C

49T Series

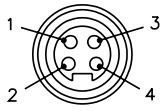
Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = GY
4 = N/C

49D Series

Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = GY
4 = GN/YE (ground)

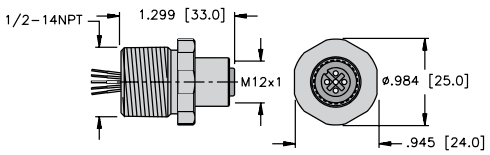
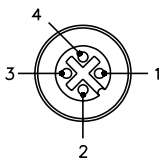
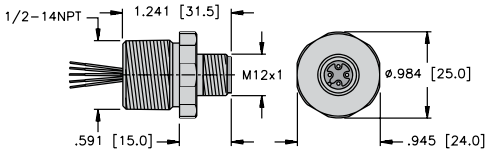
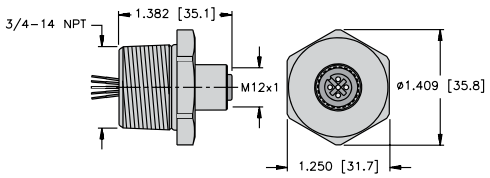
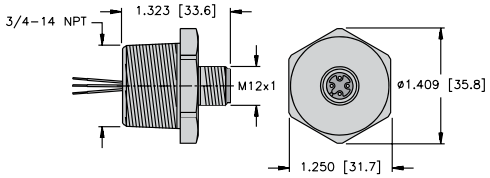
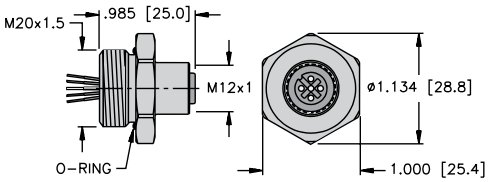
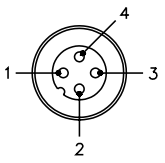
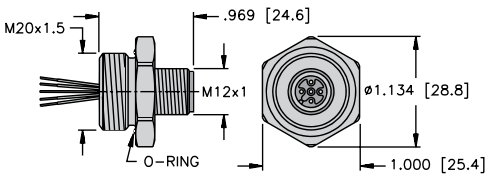
49E Series

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

TURCK

(M12x1) Eurofast® Female Receptacles

- **Mounted for quick connection to Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKV../14.5 	**FKV 49-*M/14.5**	**FSV 49-*M/14.5**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	**Female** 
FSV../14.5 				
FKV../14.75 	**FKV 49-*M/14.75**	**FSV 49-*M/14.75**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 3/4-14 NPT full length threads	
FSV../14.75 				
FKV..*M20 	**FKV 49-*M/M20**	**FSV 49-*M/M20**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, M20x1.5 Threads	**Male** 
FKV..*M20 				

Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is stainless steel. "RKF ..."; "RKFV ..." indicates 316 nickel plated brass housing.

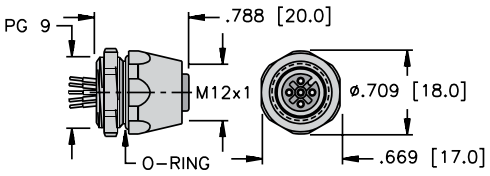
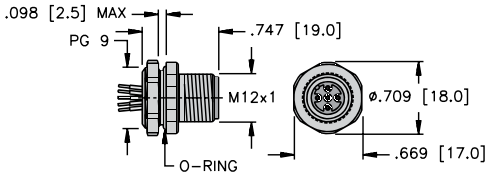
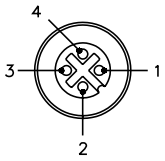
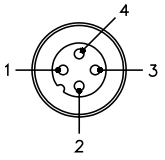
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

(M12x1) Eurofast® Female Receptacles

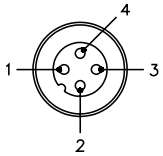
- **Mounted for quick connection to Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKV..*M  **FSV..*M** 	**FKV 49-*M**	**FSV 49-*M**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 1/2-14 NPSM threads	**Female**  **Male** 

Standard cable length is 0.5 meters. Consult factory for other lengths.
Receptacles require a 13/16" (21.0 mm) clearance hole for panel mounting.
Standard housing material is stainless steel. "RKF .."; "RKFV .." indicates 316 nickel plated brass housing.

We reserve the right to make technical alterations without prior notice.

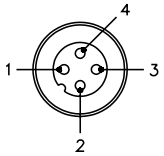
Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = N/C
4 = GN/YE (ground)

49 Series

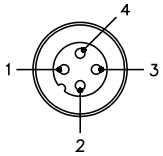
Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = N/C
4 = N/C

49T Series

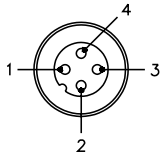
Male End View



1 = BU (-voltage)
2 = BN (+ voltage)
3 = GY
4 = N/C

49D Series

Male End View



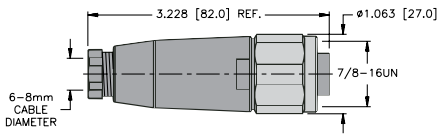
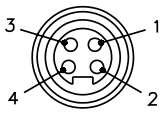
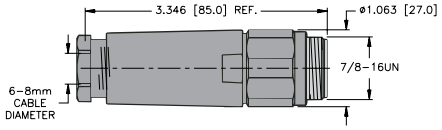
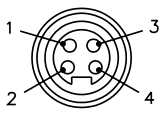
1 = BU (-voltage)
2 = BN (+ voltage)
3 = GY
4 = GN/YE (ground)

49E Series

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

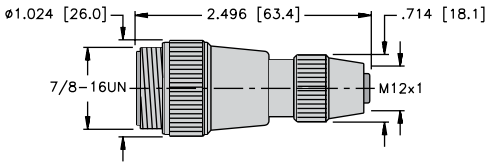
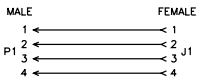
Minifast® Field Wireable Connectors with Labels

- Allows for quick connection when Pre-Molded Cables are not available
- Available for Male and Female Connectors
- Color Coded Wire Connection for FOUNDATION fieldbus

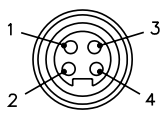
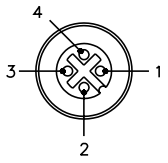
Housing Style	Female Part Number	Male Part Number	Features	Pinout
	BKV 4140-0/11/FF	BSV 4140-0/11/FF	Glass filled nylon, stainless steel coupling nut, PG 9 cable gland, accepts 8-10 mm cable diameter, screw terminals, 90 °C, 300 V, 9 A, mates with standard, 4-pin cordsets and receptacles	Female 
	BKV 4140-0/16/FF	BSV 4140-0/16/FF	Glass filled nylon, stainless steel coupling nut, PG 16 cable gland, accepts 12-14 mm cable diameter, screw terminals, 90 °C, 600 V, 9 A, mates with standard, 4-pin cordsets and receptacles	Male 

Gender Changer

- Allows Quick and Easy Changes from Male to Female and Minifast to Eurofast® Connectors

Housing Style	Part Number	Features	Wiring Diagrams
	RSM 49-FK 4.4	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +75 °C, female Eurofast, male Minifast, 4-pin	

Pinouts

Minifast	Eurofast
Male	Female
	

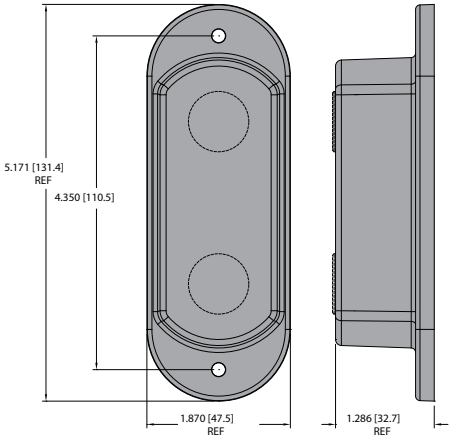
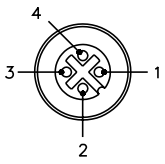
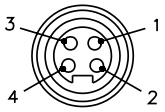
We reserve the right to make technical alterations without prior notice.

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

FOUNDATION™ fieldbus Physical Media Connectivity

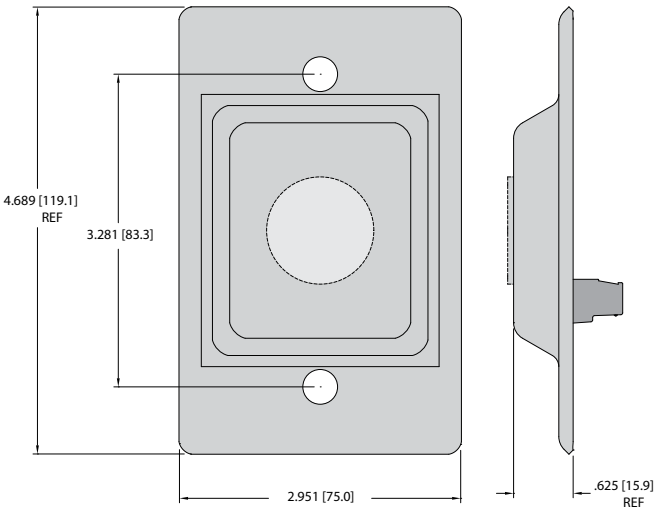
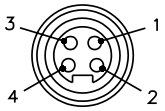
FOUNDATION fieldbus, Conduit Adapters

- Converts Standard Conduits to Quick Disconnect
- Fiberglass Reinforced Nylon Housings
- Nickel Plated Brass Connectors available
- 3/4" Form 8 or Mark 9
- 1" Form 7 available upon request
- Gasket and Mounting Screws provided
- IP67

Housing Style	1 Port Part Number	2 Port Part Number	Specifications	Pinout
	BCA-49-E123	BCA-49-E223	3/4" Form 8 or Mark 9, M12 x 1 stainless steel connectors	Female 
	BCA-49-M123	BCA-49-M223	3/4" Form 8 or Mark 9, 7/8"-16 UN stainless steel connectors	Female 
	BCA-49SC-M123	BCA-49SC-M223	Short circuit protection, 3/4" Form 8 or Mark 9, 7/8"-16 UN stainless steel connectors	

FOUNDATION™ fieldbus, Conduit Adapters

- Attaches to Standard Single Gang Electrical Box
- Stainless Steel with Stainless Steel Connectors
- Gasket and Mounting Screws Provided
- IP67

Housing Style	Part Number	Specifications	Pinout
	BPA-49-M113	7/8"-16 UN, -40 °C to +75 °C (-40 °F to +167 °F)	Female 

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-DP Cable	P3
Part Number Key	P4
Cordsets	P6
Receptacles	P13
Field Wireables	P17

Features

- Cables that meet the requirements of EN 50170 for communication up to 12 MBAUD
- PLTC rated cable (CSA FT4)
- Oil RES II and sunlight resistant
- M12 reverse keyed connectors
- Up to 4 Amp and 250 Volt rated
- IP67/IP69K rated

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

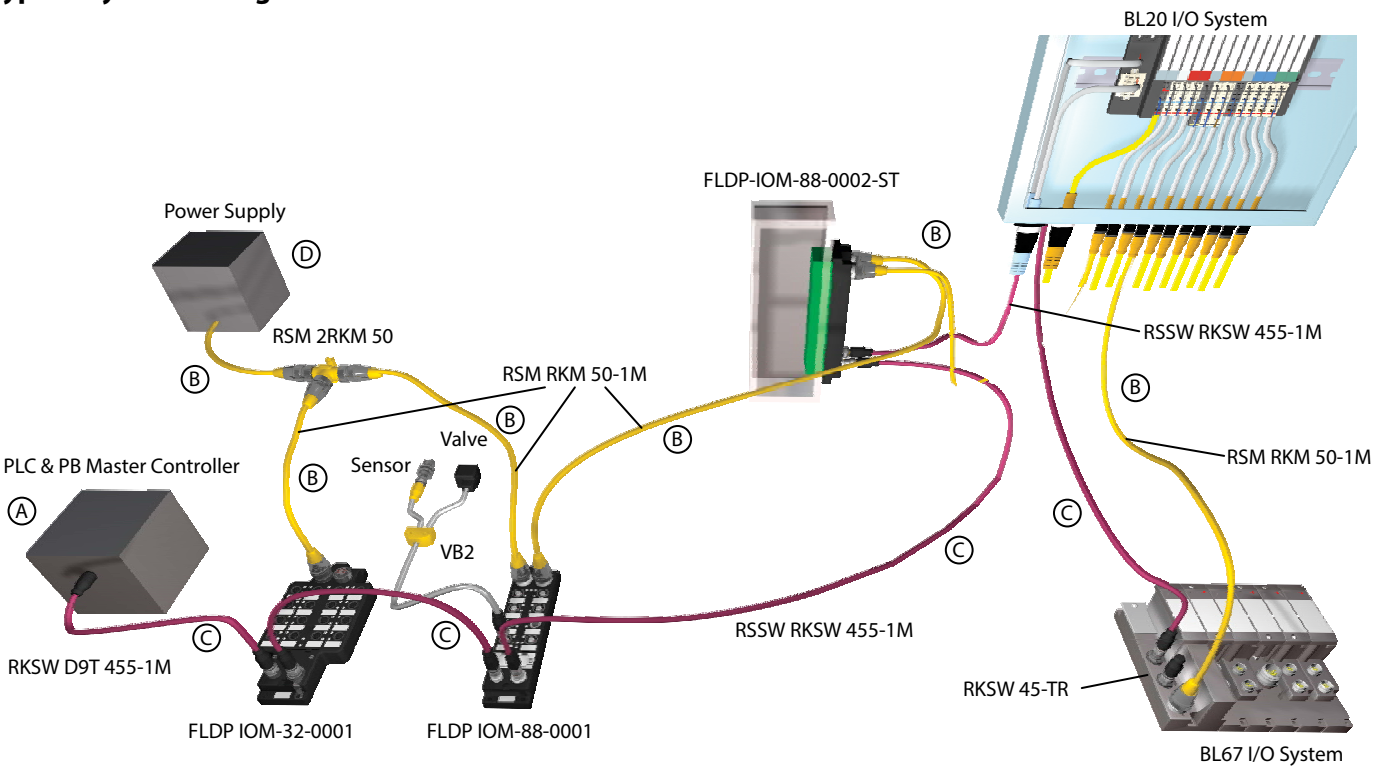
PROFIBUS-DP System Description

PROFIBUS-DP is an industrial network protocol that connects field I/O devices in order to eliminate hard wiring. The network connection increases device-level diagnostic capabilities, while also providing high-speed communication between devices.

PROFIBUS-DP is based on the RS-485 serial data transfer standard. In most cases, the termination and physical media rules for PROFIBUS-DP are the same as those required for RS-485 communication. A PROFIBUS-DP network supports up to 126 nodes and virtually an unlimited amount of I/O. The bus uses a trunkline/dropline topology. Power and communication are provided via separate cables, allowing easy segmentation of the power structure to avoid overloading.

PROFIBUS-DP is capable of running at data rates as high as 12 Mbaud. When used at high data rates, the cable drop length from the trunk to a node is severely limited. For example, when used at 12 Mbaud, nodes must be directly connected to the trunk, with no drop length allowed.

Typical System Configuration



Basic Parts List

A typical PROFIBUS-DP system consists of the following parts:

- A - Master
- B - Power cable
- C - Communication cable
- D - Power supply

PROFIBUS-DP stations require a network master (also called a scanner) to interface the stations to the host controller. Turck PROFIBUS-DP stations are designed to be fully compatible with PROFIBUS-DP equipment from other manufacturers.

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

Cordsets

Turck offers a complete line of molded PROFIBUS-DP cordsets to facilitate network installation, resulting in a faster start-up and fewer wiring errors. The bus and drop cables are specially designed foil-shielded, high-flex cables with very low inductance and capacitance to minimize propagation delay time. PROFIBUS-DP cables consist of a shielded and twisted data pair with a bare drain wire.

In most cases, connections of the bus cable to the stations are made using 5-pin reverse-key Eurofast® (M12) connectors. A variety of stations are also available that support D9 type connections. Power for most stations is provided through one or two 5-pin Minifast® (7/8-16 UN) connectors.

Turck cordsets for the PROFIBUS-DP system are available in standard lengths. Please contact your local sales representative to order custom lengths.

Communication Rate/Cycle Time

PROFIBUS-DP specifications define multiple transmission speeds ranging from 9.6 Kbaud to 12 Mbaud. All nodes on a network must communicate at the same rate.

The complete cycle time of a PROFIBUS-DP system is affected by several factors:

- Number of nodes being scanned
- Amount of data produced and consumed by the nodes
- Network communication rate
- Cycle time of the control program

All of these factors must be considered when calculating the cycle time of a particular network.

Maximum Ratings

The PROFIBUS-DP bus uses a trunkline/dropline topology. The trunk is the main communication cable and requires the appropriate RS-485 termination at both ends of the trunk. Terminating resistors are available as plug-in Eurofast modules or can be built into the D9 connectors. The length of the trunk depends on the communication rate. Drops or branches off the trunk are allowed, but are greatly limited as the communication rate increases. The table shows the maximum ratings for a trunk at different communication rates.

Communication Rate	Max. Segment Length
9.6 kbps	1200 m
19.2 kbps	1200 m
93.75 kbps	1200 m
187.5 kbps	1000 m
500 kbps	400 m
1.5 Mbps	200 m
12 Mbps	100 m

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

PROFIBUS®–DP Physical Media Connectivity

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	W	V		45x	-	*M

M12x1 (Eurofast)

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body

C = Large Plug Body
G = Robust Large Plug Body
S = Shielded to Coupling Nut
T = Small Plug Body

Keying Options

W = Reverse Key

Coupling Nut Material

(Blank) = Nickel Plated Brass
K = Nylon
V = Stainless Steel

Cable Type (x)

45 = PROFIBUS®-DP
48 = PROFIBUS®-PA

Length in Meters (*)

Consult factory for other lengths.

Eurofast Receptacle Part Number Key

F	S	F	V			57x	-	*M

M12x1 (Eurofast)

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Housing Style

(Blank) = Front Mount
F = Standard
FD = Standard Back Panel Mount
S = Shielded to Receptacle Housing
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material

(blank) = Nickel Plated Brass
V = Stainless Steel

Keying Options

W = Reverse Key

Cable Type (x)

45 = PROFIBUS®-DP
48 = PROFIBUS®-PA

Length in Meters (*)

Consult factory for other lengths.

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

PROFIBUS-DP, Cable Specifications

- **Cable that meets the requirements of EN50170-2-2:1996 for communications up to 12 Mbaud**

Figure A

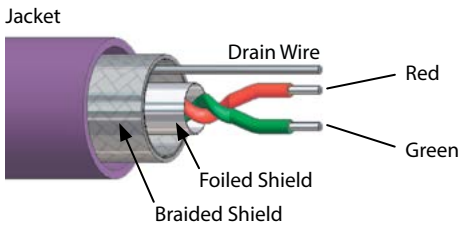
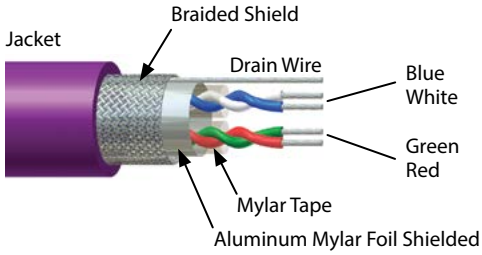


Figure B



Baud Rate (k baud)	9.6	19.2	93.75	187.5	500	1500	1200
Maximum Trunk Length	1200 meters	1200 meters	1200 meters	1000 meters	400 meters	200 meters	100 meters

Type	Approvals	Data Pair		2nd Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	Characteristic Impedance @ 1 MHz/Insulation	AWG Color Code	Characteristic Impedance @ 1 MHz/Insulation	Material Color Nominal O.D.	Type Drain Wire	
455 80 °C 300 V	UL PLTC-ER DB CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X22 AWG RD/GN	150 Ohms HDPE	None	n/a	PVC, VIOLET, 8.5 mm (.335 in)	Foil/braid, 22 AWG	RB50672-*M, 63 lbs.
456 80 °C 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG RD/GN	150 Ohms HDPE	None	n/a	TPU, VIOLET, 7.9 mm (.310 in)	Foil/braid, 22 AWG	RB50683-*M, 45 lbs.
457 80 °C 600 V	UL recognized AWM VW-1	2X22 AWG RD/GN Solid	150 Ohms HDPE	None	n/a	TPU, VIOLET, 7.8 mm (.305 in)	Foil/braid	RB50708-*M, 39 lbs.
458 80 °C 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG RD/GN	150 Ohms HDPE	None	n/a	TPU, PLUM, 8.5 mm (.335 in)	Foil/braid, 22 AWG	RB50692-*M, 52 lbs. Flexlife®
4511 80 °C 300 V	UL PLTC CSA CMX-OUTDOOR-CMG AWM I/II A/B, FT 4	2X22 AWG RD/GN	150 Ohms HDPE	None	n/a	PVC, VIOLET, 8.5 mm (.335 in)	Foil/braid, 22 AWG	RB50881-*M, 58 lbs. Flexlife
4515 80 °C 600 V	IEC-60332-3 IEC-60754-1 EN 50267-2-2	2X22 AWG RD/GN	150 Ohms HDPE	None	n/a	TPU, VIOLET, 7.9 mm (.310 in) Halogen-free	Foil/braid, 22 AWG	RB51225-*M, 41 lbs.
590 80 °C 300 V	UL recognized AWM CSA AWM I/II A/B, FT 1	2X22 AWG RD/GN	150 Ohms HDPE	2X22 AWG BU/WT	150 Ohms HDPE	PVC, VIOLET, 8.4 mm (.330 in)	Foil/braid, 22 AWG	RB51057-*M, 52 lbs.

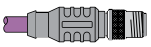
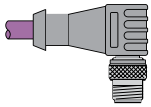
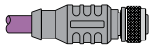
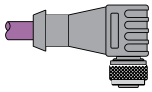
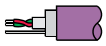
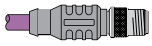
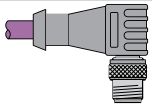
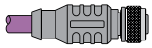
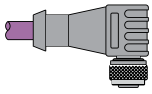
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–DP Physical Media Connectivity

PROFIBUS-DP, (M12x1) Eurofast® Cable and Cordset Selection Matrix

		Eurofast (Male)		Eurofast (Female)	
		1  RSSW	2  WSSW	3  RKSW	4  WKSW
	 Bare	RSSW 45x-*M	WSSW 45x-*M	RKSW 45x-*M	WKSW 45x-*M
Eurofast (Male)	1  RSSW	RSSW RSSW 45x-*M	RSSW WSSW 45x-*M	RSSW RKSW 45x-*M	RSSW WKSW 45x-*M
Eurofast (Male)	2  WSSW		WSSW WSSW 45x-*M	WSSW RKSW 45x-*M	WSSW WKSW 45x-*M
Eurofast (Female)	3  RKSW			RKSW RKSW 45x-*M	RKSW WKSW 45x-*M
Eurofast (Female)	4  WKSW				WKSW WKSW 45x-*M

See page P8 for dimensional drawings.

* Indicates length in meters.

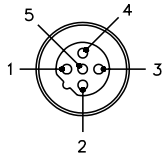
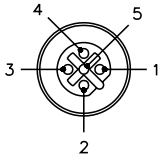
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSW...RSSWV.

We reserve the right to make technical alterations without prior notice.

Pinouts

Eurofast	45 series pinout	59 series pinout	Eurofast
Male			Female
	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Bare (Shield Drain Wire)	1. Blue (TxD_1) 2. Green (TxD) 3. White (RxD_1) 4. Red (RxD) 5. Bare (Shield Drain Wire)	

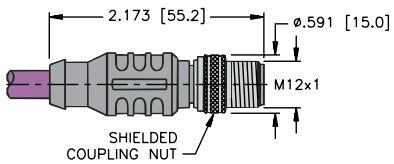
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFIBUS-DP, (M12x1) Eurofast® Cable and Cordsets

Specifications

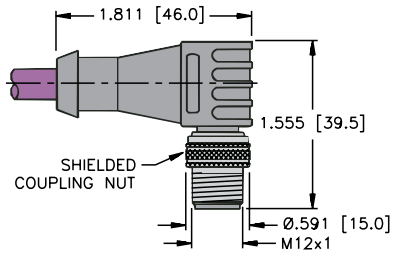
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +75 °C (-22 °F to +167 °F)

1



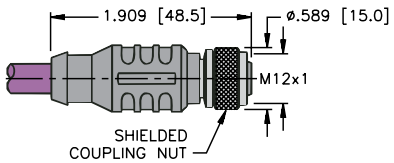
RSSW .. **Page P6**

2



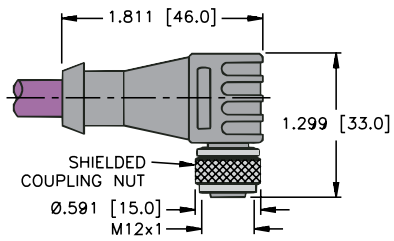
WSSW .. **Page P6**

3



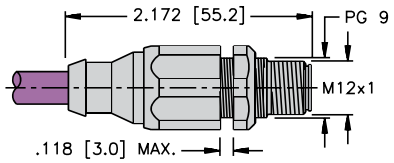
RKSW .. **Page P6**

4



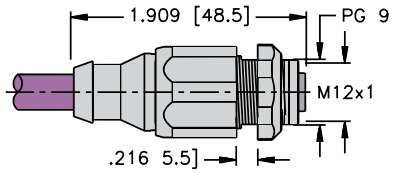
WKSW .. **Page P6**

5



FSSDWE .. **Page P8**

6



FKSDWE .. **Page P8**

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–DP Physical Media Connectivity

PROFIBUS-DP, (M12x1) Eurofast® Cable and Cordset Selection Matrix

				Eurofast					
				Male		Female		Male	Female
			Bare	1 RSSW	2 WSSW	3 RKSW	4 WKSW	5 FSSDWE	6 FKSDWE
9-Pin Sub D Connector	Terminator	10 D9S/T	D9S/T 45x-*M	RSSW D9S/T 45x-*M	WSSW D9S/T 45x-*M	RKSW D9S/T 45x-*M	WKSW D9S/T 45x-*M	FSSDWE D9S/T 45x-*M	FKSDWE D9S/T 45x-*M
	Master	12 D9SM/T	D9SM/T 45x-*M	RSSW D9SM/T 45x-*M	WSSW D9SM/T 45x-*M	RKSW D9SM/T 45x-*M	WKSW D9SM/T 45x-*M	FSSDWE D9SM/T 45x-*M	FKSDWE D9SM/T 45x-*M
		11 SD9S/T	SD9S/T 45x-*M	RSSW SD9S/T 45x-*M	WSSW SD9S/T 45x-*M	RKSW SD9S/T 45x-*M	WKSW SD9S/T 45x-*M	FSSDWE SD9S/T 45x-*M	FKSDWE SD9S/T 45x-*M

See page P8 and P11 for dimensional drawings.

* Indicates length in meters.

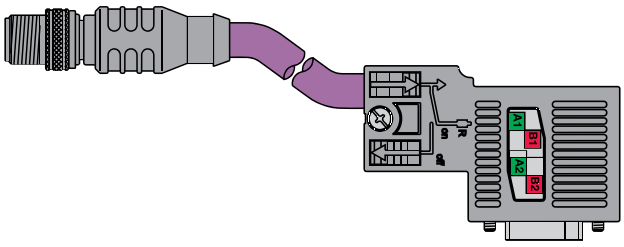
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSW...RSSWV.

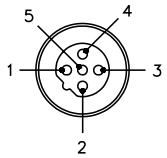
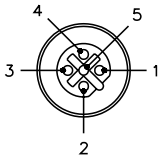
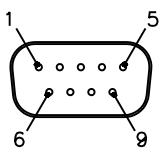
We reserve the right to make technical alterations without prior notice.

Extension Example:



RSSW D9S/T 455-0.3M

Pinouts

Eurofast	45 series pinout	Eurofast	D9	D9 pinout
Male		Female	Male	
	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Bare (Shield Drain Wire)			1 = N/C 2 = N/C 3 = RD (RXD) 4 = N/C 5 = N/C 6 = N/C 7 = N/C 8 = GN (TXD) 9 = N/C

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

PROFIBUS-DP, (M12x1) Eurofast® Cable and Cordset Selection Matrix

			Eurofast					
			Male		Female		Male	Female
		Bare	1 RSSW	2 WSSW	3 RKSW	4 WKSW	5 FSSDWE	6 FKSDWE
Node	10 D9S	D9S 45x-*M	RSSW D9S RSSW 45x-*M-*M	WSSW D9S WSSW 45x-*M-*M	RKSW D9S RKSW 45x-*M-*M	WKSW D9S WKSW 45x-*M-*M	FSSDWE D9S FSSDWE 45x-*M-*M	FKSDWE D9S FKSDWE 45x-*M-*M
Straight	11 SD9S	SD9S 45x-*M	RSSW SD9S RSSW 45x-*M-*M	WSSW SD9S WSSW 45x-*M-*M	RKSW SD9S RKSW 45x-*M-*M	WKSW SD9S WKSW 45x-*M-*M	FSSDWE SD9S FSSDWE 45x-*M-*M	FKSDWE SD9S FKSDWE 45x-*M-*M
	12 D9SM	D9SM 45x-*M	RSSW D9SM RSSW 45x-*M	WSSW D9SM WSSW 45x-*M-*M	RKSW D9SM RKSW 45x-*M-*M	WKSW D9SM WKSW 45x-*M-*M	FSSDWE D9SM FSSDWE 45x-*M-*M	FKSDWE D9S FKSDWE 45x-*M-*M

			Eurofast					
			Male	Female	Male	Female	Male	Female
		Bare	1 RSSW	3 RKSW	2 WSSW	4 WKSW	5 FSSDWE	6 FKSDWE
Node	10 D9S	D9S 45x-*M	RSSW D9S RKSW 45x-*M-*M		WSSW D9S WKSW 45x-*M-*M		FSSDWE D9S FKSDWE 45x-*M-*M	
Straight	11 SD9S	SD9S 45x-*M	RSSW SD9S RKSW 45x-*M-*M		WSSW SD9S WKSW 45x-*M-*M		FSSDWE SD9S FKSDWE 45x-*M-*M	
	12 D9SM	D9SM 45x-*M	RSSW D9SM RKSW 45x-*M-*M		WSSW D9SM WKSW 45x-*M-*M		FSSDWE D9SM FKSDWE 45x-*M-*M	

See page P8 and P11-P12 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSSW...RSSWV.

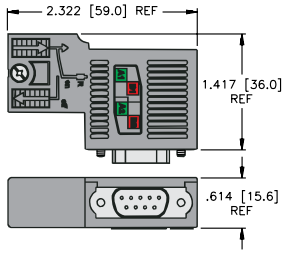
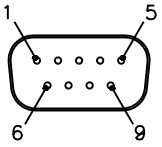
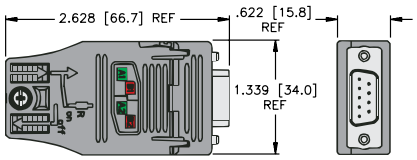
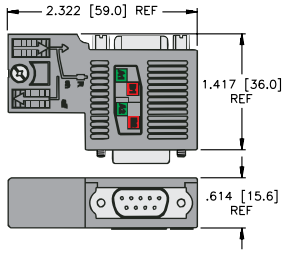
We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–DP Physical Media Connectivity

PROFIBUS-DP, Field Wireable D9 Connectors

- **Provides connection to Master or Node in the field**
- **Maximum Cable O.D. is 8.5 mm**

Housing Style	Part Number	Features	Pinout	
	**Connector,PDP,D9S**	-25 °C to +80 °C, right angle, terminating switch	1. N/C 2. N/C 3. RED (Bus_B) 4. N/C 5. N/C 6. N/C 7. N/C 8. Green (Bus_A) 9. N/C	**Male** 
	**Connector,PDP,SD9S**	-25 °C to +80 °C, straight, terminating switch		
	**Connector,PDP,D9SM**	-25 °C to +80 °C, right angle, master, terminating switch		

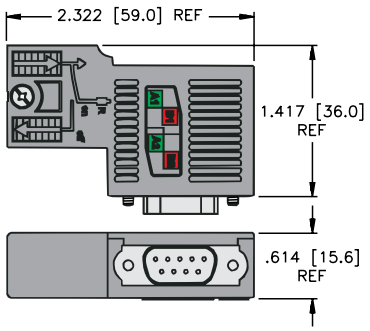
We reserve the right to make technical alterations without prior notice.

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

Specifications - (D9)

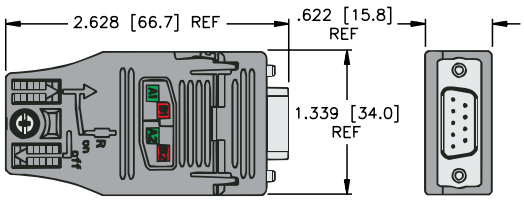
Terminating Switch:	Yes	**Rated Current:**	5 mA
Protection:	IEC IP 20	**Temperature Rating:**	-25 °C to +60 °C
Rated Voltage:	4.75-5.25 VDC	*Max. Cable diameter: 8.5 mm	

10



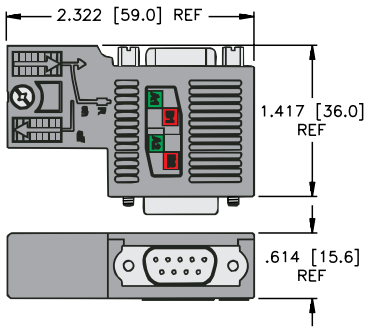
Connector, PDP, D9S **Page P8**

11



Connector, PDP, SD9S **Page P8**

12



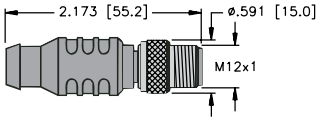
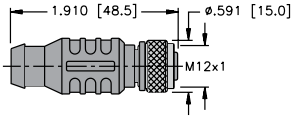
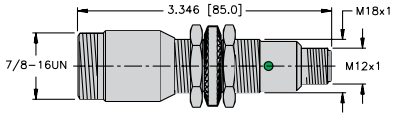
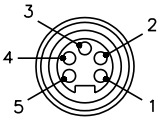
Connector, PDP, D9SM **Page P8**

We reserve the right to make technical alterations without prior notice.

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

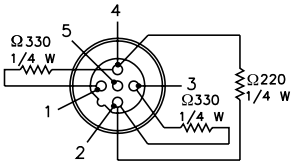
PROFIBUS-DP, Terminating Resistors

- **Terminating Resistors stabilize and minimize reflections on the Bus Line**
- **A Terminating Resistor is required at the beginning and end of the Main Bus Line**

Housing Style	Part Number	Features	Pinout	
	**RSSW 45-TR**	Nickel plated brass, 250 V, 4 A, -40 °C to +75 °C, internal resistor, male Eurofast connector, reverse keyed	1. N/C 2. GN 3. N/C 4. RD 5. BARE	See Below
	**RKSW 45-TR**	Nickel plated brass, 250 V, 4 A, -40 °C to +75 °C, internal resistor, female Eurofast connector, reverse keyed	1. N/C 2. GN 3. N/C 4. RD 5. BARE	See Below
	**PDP-TRA**	Nickel plated brass, 250 V, 4 A, -40 °C to +75 °C, active terminating resistor, external power supply Minifast® and Eurofast connector, LED signal for power status	1. N/C 2. BUS_A 3. N/C 4. BUS_B 5. N/C	See Below
			1. N/C 2. GND 3. N/C 4. UI=24 VDC 5. N/C	**Male** 

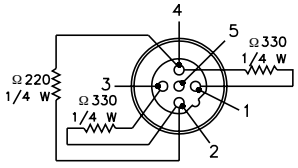
We reserve the right to make technical alterations without prior notice.

Pinout Diagram, RSSW 45-TR



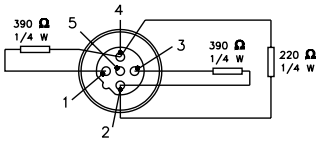
Eurofast Male Connector

Pinout Diagram, RKSW 45-TR



Eurofast Female Connector

Pinout Diagram, PDP-TRA

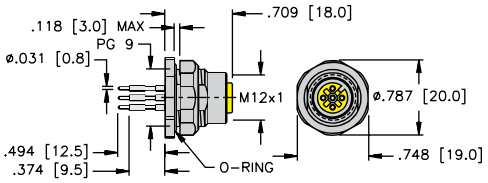
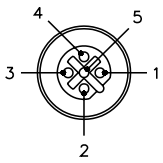
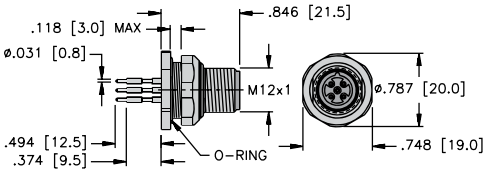
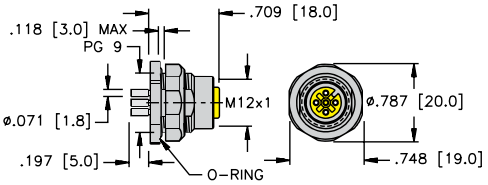
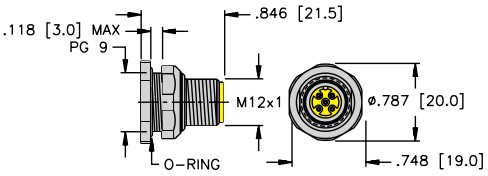
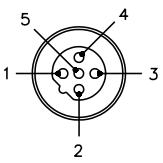
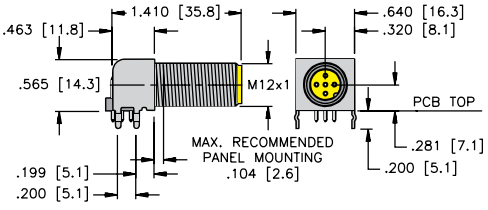


Eurofast Male Connector

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

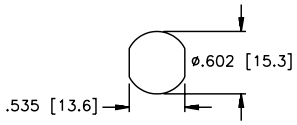
PROFIBUS-DP, Circuit Board Connectors and OEM Receptacles

- **Provides (M12x1) Eurofast® Connection to Field Devices**

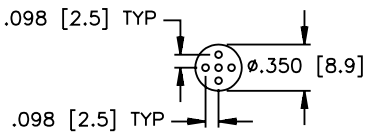
Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKFDW 45.. 	**FKFDW 45-PCB**	**FSFDW 45-PCB**	Nickel plated CuZn or stainless Steel, 250 V, 4 A, -40 °C to +75 °C, male Eurofast PCB pins	1. N/C 2. GN 3. N/C 4. RD 5. BARE	**Female** 
FSFDW 45.. 					
FKFDLW 45.. 	**FKFDLW 45**	**FSFDLW 45**	Nickel plated CuZn or stainless Steel, 250 V, 4 A, -40 °C to +75 °C, male Eurofast solder cups		
FSFDLW 45.. 					**Male** 
WFSW 45.. 		**WFSW 45-PCB**	Nickel plated CuZn or stainless Steel, 250 V, 4 A, -40 °C to +75 °C, male Eurofast right angle PCB pins		

Standard housing material is nickel plated brass "FKFD .."; "FKFDV .." indicates 316 stainless steel.

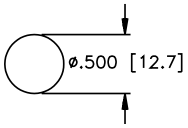
Panel Cutout FKFD … FSFD



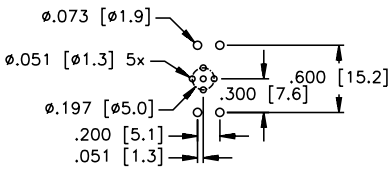
Board Layout (reference only) FKFD … FSFD



Panel Cutout WFS



Board Layout (reference only) WFS

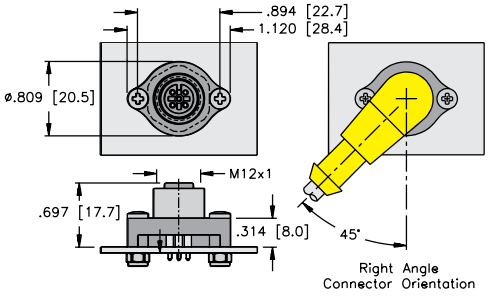
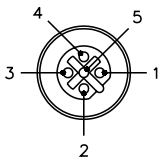
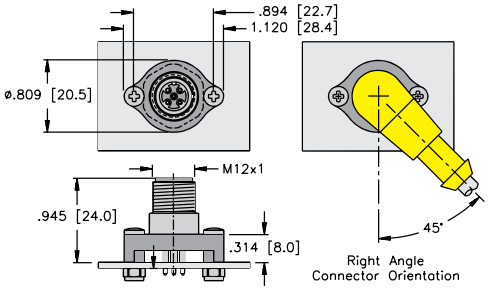
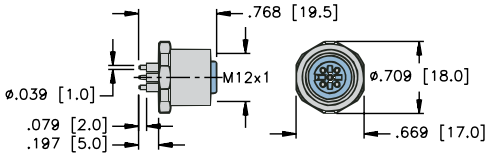
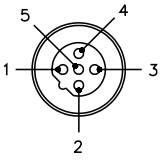
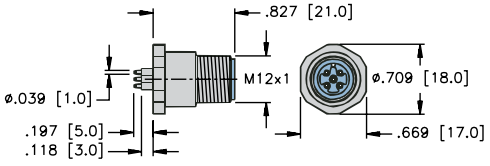


We reserve the right to make technical alterations without prior notice.

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

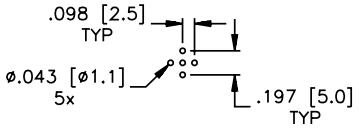
PROFIBUS-DP, Circuit Board Connectors and OEM Receptacles

- **Provides (M12x1) Eurofast® Connection to Field Devices**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKW 45 PCB KIT 	**FKW 45-PCB KIT**	**FSW 45-PCB KIT**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -30 °C to +75 °C, male Eurofast with mounting kit, reverse key	1. N/C 2. GN 3. N/C 4. RD 5. BARE	**Female** 
FSW 45 PCB KIT 					
FK 45 PCB 	**FK 45-PCB**	**FSW 45-PCB**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -30 °C to +75 °C, male Eurofast, reverse key		**Male** 
FSW 45 PCB 					

Standard housing material is nickel plated brass “FKFD ..”; “FKFDV ..” indicates 316 stainless steel.

Board Layout (reference only)
FK ... FS

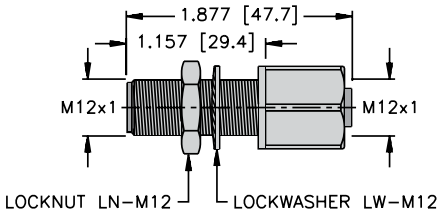
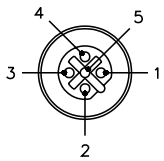
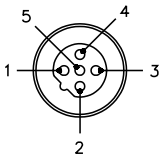


We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-DP, Eurofast® Feed Through Receptacle

- **Provides Bulkhead Panel Mount Connection**

Housing Style	Part Number	Features	Pinout
	**FKW FSW 45/M12**	Nickel plated brass or stainless steel, 250 V, 4 A, -40 °C to +75 °C, straight male/female connector, for pre-molded reverse keyed Eurofast cables	**Female**  **Male** 

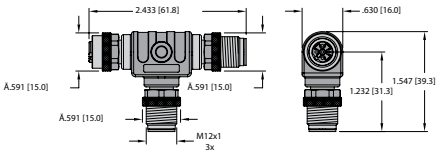
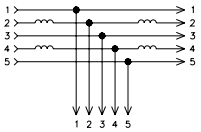
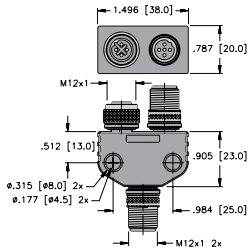
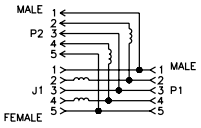
For stainless steel change part number to FKWV FSWV 45/M12

We reserve the right to make technical alterations without prior notice.

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

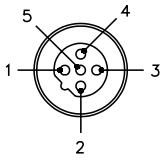
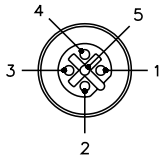
PROFIBUS-DP, Eurofast® Bus Tees

- **Creates a Branch from the Main Bus Line**

Housing Style	Part Number	Features	Wiring Diagrams
	**RKSW 2RSSW 45/CM**	TPU, Nickel plated brass, 250 V, 4 A, -40 °C to +75 °C, male Eurofast drop connector, fully shielded Eurofast tee, passive termination	
	**VB2-FSW/FKW/FSW 45**	TPU, Nickel plated brass, 250 V, 4 A, -40 °C to +75 °C, Y Junction, fully shielded Eurofast connectors	

We reserve the right to make technical alterations without prior notice.

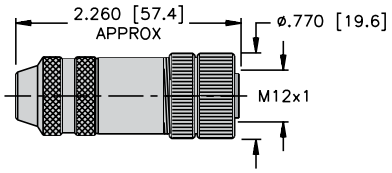
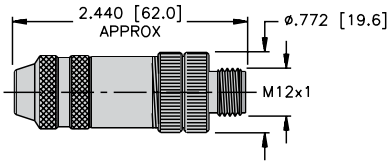
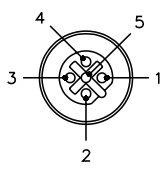
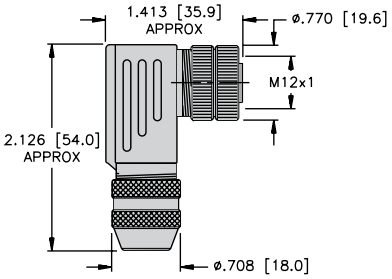
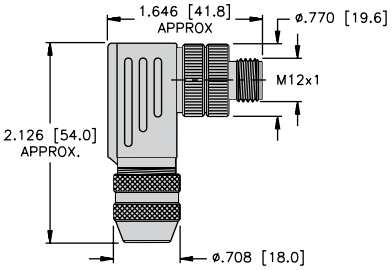
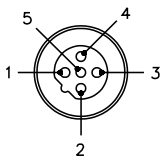
Pinouts

Eurofast	
Male	Female
	

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

PROFIBUS-DP, Eurofast® Field Wireable Connectors with Labels

- **Allows for Quick Connection when Pre-Molded Cables not available**
- **Available for Male and Female connectors**
- **Color Coded Wire Connection for PROFIBUS-DP**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FKFD 57 PCB  **FKFD 57 PCB** 	**BMWS 8151-8.5/PDP**	**BMSWS 8151-8.5/PDP**	Nickel plated brass, PG 9 cable gland, accepts 4-9 mm cable diameter, screw terminals, accepts up to 18 AWG conductors 85 °C, 125 V, 4 A, mates with reverse key, 5-pin cordsets and receptacles, metal, fully shielded	**Female** 
FKFD 57 PCB  **FKFD 57 PCB** 	**BMWS 8251-8.5/PDP**	**BMSWS 8251-8.5/PDP**	Nickel plated brass, PG 9 cable gland, accepts 4-9 mm cable diameter, screw terminals, accepts up to 18 AWG conductors 85 °C, 125 V, 4 A, mates with reverse key, 5-pin cordsets and receptacles, metal, fully shielded	**Male** 

We reserve the right to make technical alterations without prior notice.

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

Notes

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

Cordsets	P22
Receptacles	P24
Terminating resistors	P30
Tees	P31
Field Wireables	P33

Features

- Cable that meets the requirements of ISA/SP 50 and PROFIBUS-PA requirements for Type A Cable
- All cables are rated -40 °C to +105 °C and are sunlight resistant
- Available in 3-wire versions with a device ground or 2-wire versions
- PLTC and ITC listed (CSA FTA)
- Exposed Run (ER) and Direct Burial listed
- IP67 Rated

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

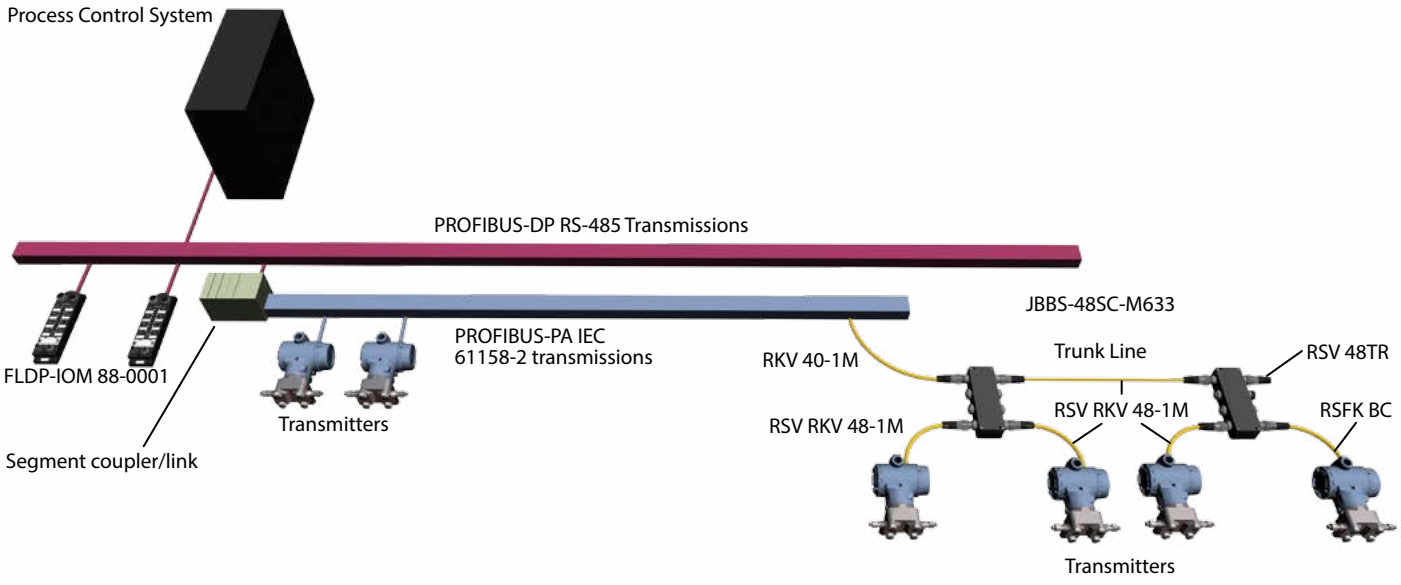
PROFIBUS-PA Overview

PROFIBUS-PA (Process Automation) uses synchronous transfer mode technology, as defined in IEC 61158-2, to communicate between field devices and the RS 485 backbone of PROFIBUS®-DP. A segment coupler, or gateway is installed to bridge PROFIBUS-DP with PROFIBUS-PA. Otherwise, the protocols are identical, allowing transparent communication between general purpose automation systems and decentralized field devices.

PROFIBUS-PA is a master-slave bus. Transmitters used in the process industry are typically slave devices or passive stations which only communicate at the request of the master.

General Layout Topologies

The topology for PROFIBUS-DP is a linear bus. Branching can be accomplished with repeaters or, in the case of PROFIBUS-PA, this can be accomplished with the segment couplers. The PROFIBUS-PA topology follows the physical layer as defined in ISA SP50.02. Daisy chain or star topologies are allowed.



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

PROFIBUS-PA, Cable Specifications

- **Cable that meets the requirements of ISA/SP50 and PROFIBUS-PA requirements for Type A Cable**
- **All Cables are rated -40 °C to +105 °C and are Sunlight Resistant**
- **Available in 3-wire versions with a Device Ground or 2-wire versions**

Type A Cable Specifications

- Temperature range: -40 °C to +105 °C
- UV Resistant
- PLTC and ITC Listed (CSA FT4)
- Exposed Run (ER) and Direct Buried (DB) Listed
- Maximum Attenuation at 1.25 f_r (39 kHz) = 3.0 dB/km
- Characteristic Impedence 100 Ω ± 10 Ω @ 31.25 KHz
- Capacitance: 20 pF/Ft nominal
- Inductance: 0.22 µH/Ft. nominal
- Conductor Cross-sectional area (wire size) = nominal 0.75 mm² (#18 AWG) or 1.5 mm² (#16 AWG)
- Shield Coverage =100 %

Figure A

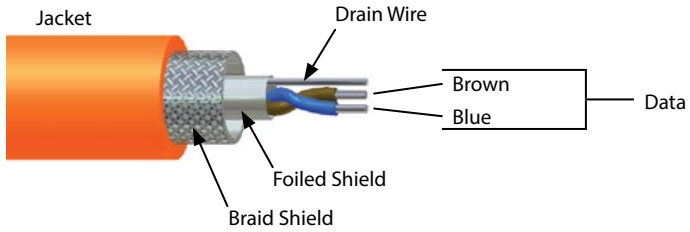
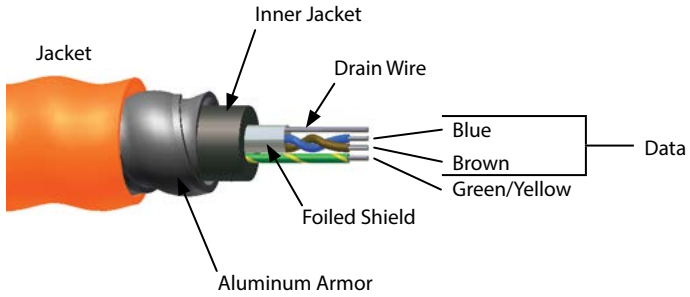


Figure B



Type	Approvals	Data Pair		Device Ground	Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	Material Color Nominal O.D.	Type Drain Wire	
483 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	None	PVC, ORANGE, 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50785-*M, 66 lbs.
483B 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	None	PVC, BLUE, 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50786-*M, 66 lbs.
482A 105 °C, 300 V	UL ITC-ER DB CSA ACIC HL-ABCD, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, ORANGE, 15.6 mm (.615 in)	Foil/armor, 20 AWG	RB50929-*M, 184 lbs.
482BA 105 °C, 300 V	UL ITC-ER DB CSA ACIC HL-ABCD, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	18 AWG, GN-YE	PVC, BLUE, 15.6 mm (.615 in)	Foil/armor, 20 AWG	RB50803-*M, 184 lbs. Flexlife
483BK 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X18 AWG BU/BN	7.06 Ohms XLPE	None	PVC, BLACK 8.5 mm (.335 in)	Foil/braid, 20 AWG	RB50860-*M, 66 lbs.

* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–PA Physical Media Connectivity

PROFIBUS-PA, Cable and Cordset Selection Matrix

		Minifast® (Male)		Minifast® (Female)		Eurofast® Male
		1 RSV	3 WSV	2 RKV	4 WKV	7 RSCV
	Bare	RSV 48x-*M	WSV 48x-*M	RKV 48x-*M	WKV 48x-*M	RSCV 48x-*M
Minifast (Male)	1 RSV	RSV RSV 48x-*M	RSV WSV 48x-*M	RSV RKV 48x-*M	RSV WKV 48x-*M	RSV RSCV 48x-*M
Minifast (Male)	3 WSV		WSV WSV 48x-*M	WSV RKV 48x-*M	WSV WKV 48x-*M	WSV RSCV 48x-*M
Minifast (Female)	2 RKV			RKV RKV 48x-*M	RKV WKV 48x-*M	RKV RSCV 48x-*M
Minifast (Female)	4 WKV				WKV WKV 48x-*M	WKV RSCV 48x-*M
Eurofast (Male)	7 RSCV					RSCV RSCV 48x-*M
Eurofast (Male)	9 WSCV					
Eurofast (Female)	8 RKCV					
Eurofast (Female)	10 WKCV					

See pages P26 - P27 for dimensional drawings.

* Indicates length in meters.

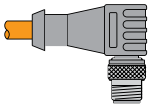
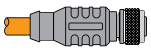
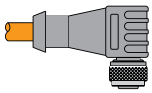
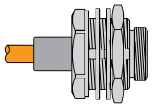
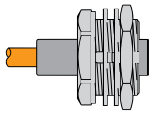
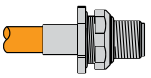
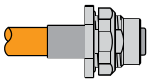
x Indicates cable type.

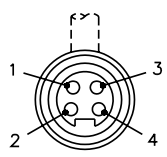
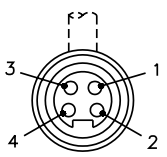
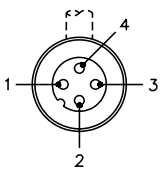
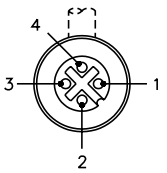
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-PA, Cable and Cordset Selection Matrix

Eurofast®			Minifast® Bulkhead		Eurofast Bulkhead	
Male	Female		Male	Female	Male	Female
9 	8 	10 	5 	6 	11 	12 
WSCV	RKCV	WKCV	RSFPV	RKFPV	FSFDV	FKFDV
WSCV 48x-*M	RKCV 48x-*M	WKCV 48x-*M	RSFPV 48x-*M	RKFPV 48x-*M	FSFDV 48x-*M	FKFDV 48x-*M
RSV WSCV 48x-*M	RSV RKCV 48x-*M	RSV WKCV 48x-*M	RSV RSFPV 48x-*M	RSV RKFPV 48x-*M	RSV FSFDV 48x-*M	RSV FKFDV 48x-*M
WSV WSCV 48x-*M	WSV RKCV 48x-*M	WSV WKCV 48x-*M	WSV RSFPV 48x-*M	WSV RKFPV 48x-*M	WSV FSFDV 48x-*M	WSV FKFDV 48x-*M
RKV WSCV 48x-*M	RKV RKCV 48x-*M	RKV WKCV 48x-*M	RKV RSFPV 48x-*M	RKV RKFPV 48x-*M	RKV FSFDV 48x-*M	RKV FKFDV 48x-*M
WKV WSCV 48x-*M	WKV RKCV 48x-*M	WKV WKCV 48x-*M	WKV RSFPV 48x-*M	WKV RKFPV 48x-*M	WKV FSFDV 48x-*M	WKV FKFDV 48x-*M
RSCV WSCV 48x-*M	RSCV RKCV 48x-*M	RSCV WKCV 48x-*M	RSCV RSFPV 48x-*M	RSCV RKFPV 48x-*M	RSCV FSFDV 48x-*M	RSCV FKFDV 48x-*M
WSCV WSCV 48x-*M	WSCV RKCV 48x-*M	WSCV WKCV 48x-*M	WSCV RSFPV 48x-*M	WSCV RKFPV 48x-*M	WSCV FSFDV 48x-*M	WSCV FKFDV 48x-*M
	RKCV RKCV 48x-*M	RKCV WKCV 48x-*M	RKCV RSFPV 48x-*M	RKCV RKFPV 48x-*M	RKCV FSFDV 48x-*M	RKCV FKFDV 48x-*M
		WKCV WKCV 48x-*M	WKCV RSFPV 48x-*M	WKCV RKFPV 48x-*M	WKCV FSFDV 48x-*M	WKCV FKFDV 48x-*M

Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Brown (+ Voltage) 2. N/C 3. Blue (- Voltage) 4. Bare (Shield Drain Wire)		

We reserve the right to make technical alterations without prior notice.

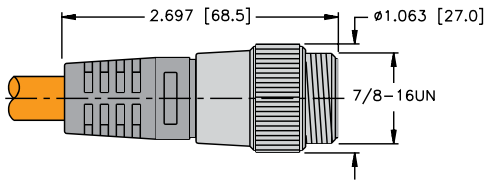
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFIBUS-PA, Minifast® Cordset and Receptacle Connector Dimensions

Specifications

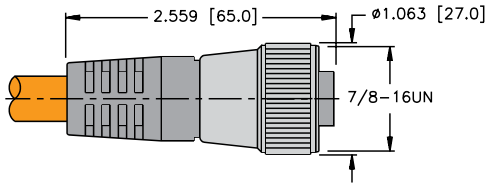
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	300 V
Contact Carrier:	TPU	**Rated Current:**	9 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)

1



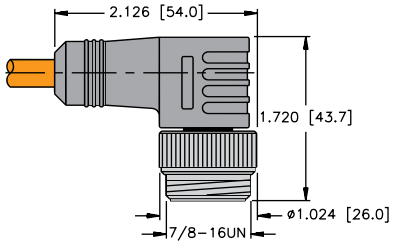
RSV .. **Page P22**

2



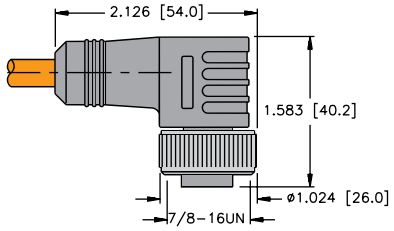
RKV .. **Page P22**

3



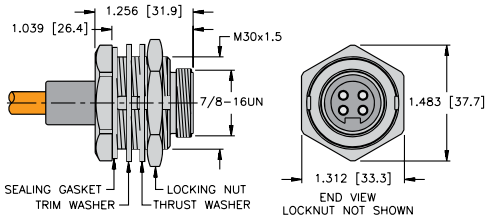
WSV .. **Page P22**

4



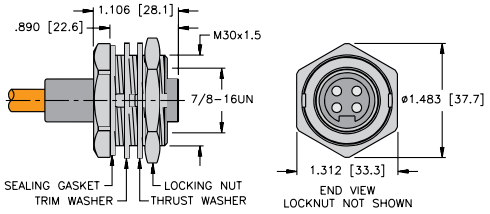
WKV .. **Page P22**

5



RSFPV .. **Page P23**

6



RKFPV .. **Page P23**

We reserve the right to make technical alterations without prior notice.

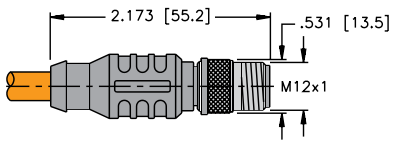
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFIBUS-PA, Eurofast® Cordset and Receptacle Connector Dimensions

Specifications

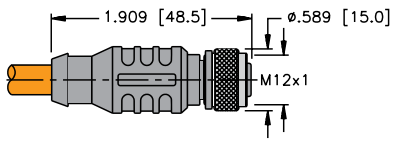
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)

7



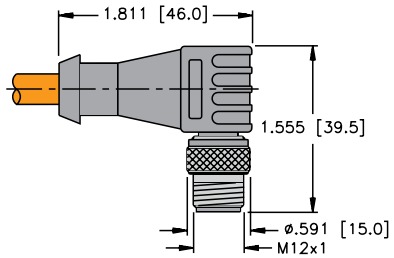
RSCV .. **Page P22**

8



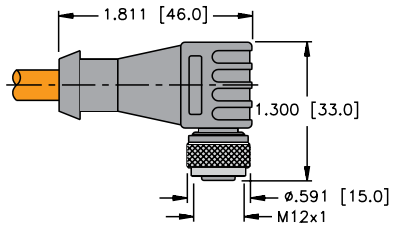
RKCV .. **Page P22**

9



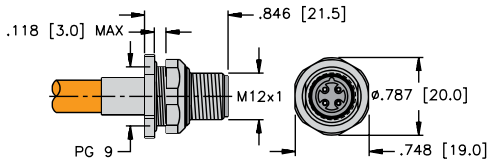
WSCV .. **Page P22**

10



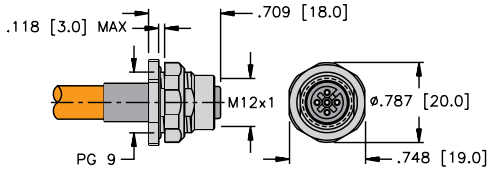
WKCV .. **Page P22**

11



FSFDV .. **Page P23**

12



FKFDV .. **Page P23**

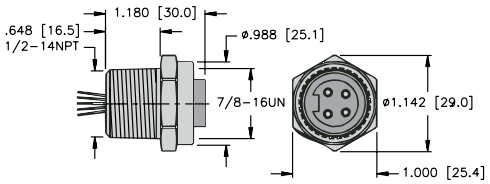
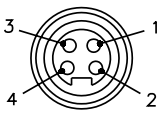
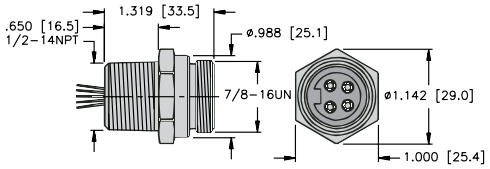
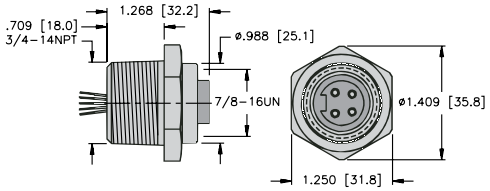
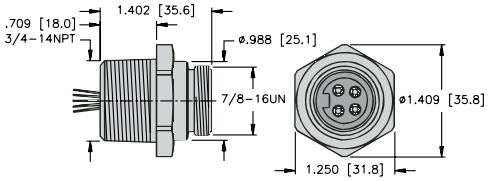
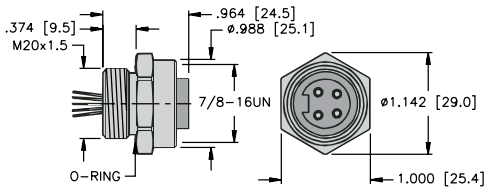
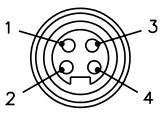
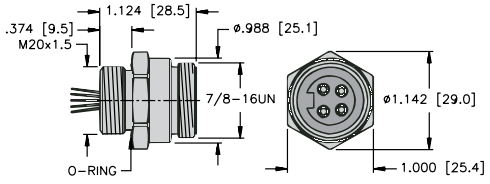
We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–PA Physical Media Connectivity

PROFIBUS-PA, (7/8-16 UN) Minifast® Male Receptacles

- **Provides Quick Connection to Field Devices**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKFV 48-*M/14.5 	**RKFV 48-*M/14.5**	**RSFV 48-*M/14.5**	Nickel Plated CuZn or Stainless Steel 600 V, 9 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	1. BN 2. N/C 3. BU 4. GY	**Female** 
RSFV 48-*M/14.5 					
RKFV 48-*M/14.75 	**RKFV 48-*M/14.75**	**RSFV 48-*M/14.75**	Nickel Plated CuZn or Stainless Steel 600 V, 9 A, -40 °C to +105 °C, 3/4-14 NPT full length threads		
RSFV 48-*M/14.75 					
RKFV 48-*M/M20 	**RKFV 48-*M/M20**	**RSFV 48-*M/M20**	Nickel Plated CuZn or Stainless Steel 600 V, 9 A, -40 °C to +105 °C, M20x1.5 threads		**Male** 
RSFV 48-*M/M20 					

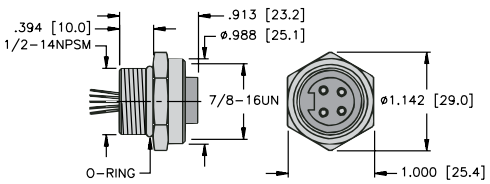
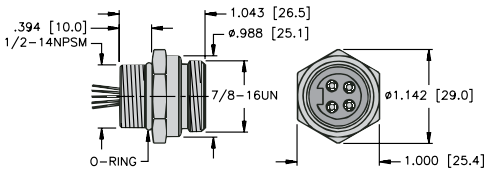
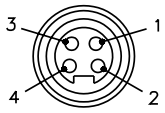
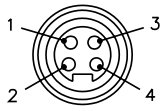
Standard cable length is 0.5 meters. Consult factory for other lengths
Standard housing material is nickel plated brass. "RKFV ..."; indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-PA, (7/8-16 UN) Minifast® Female Receptacles

- **Provides Quick Connection to Field Devices**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKFV 48-*M  **RSFV 48-*M**  	**RKFV 48-*M**	**RSFV 48-*M**	Nickel Plated CuZn or Stainless Steel 600 V, 9 A, -40 °C to +105 °C, 1/2-14 NPSM threads	1. BN 2. N/C 3. BU 4. GY	**Female**  **Male** 

Standard cable length is 0.5 meters. Consult factory for other lengths
Standard housing material is nickel plated brass. "RKFV ..."; indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

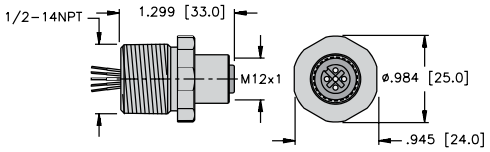
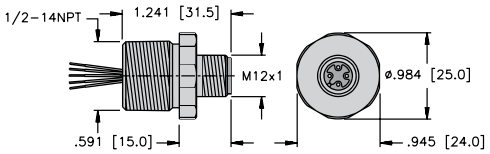
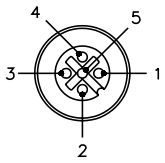
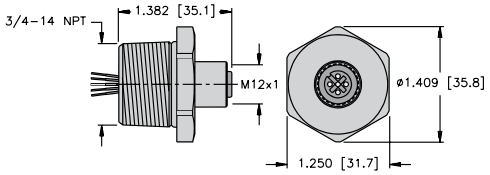
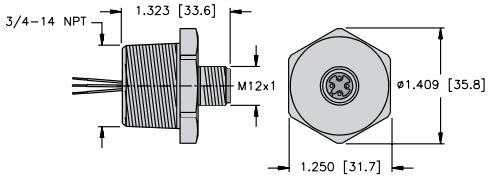
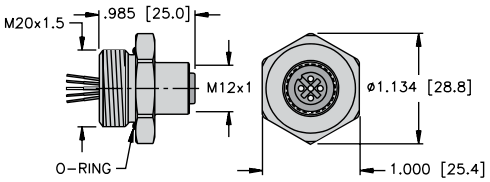
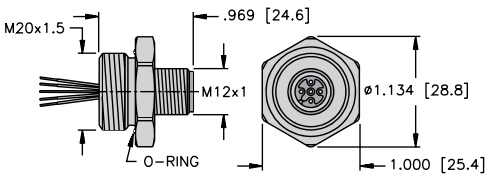
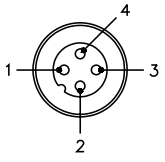
We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–PA Physical Media Connectivity

PROFIBUS-PA, (M12x1) Eurofast® Male Receptacles

- **Mounted Quick Connection to Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKV 48-*M/14.5  **FSV 48-*M/14.5** 	**FKV 48-*M/14.5**	**FSV 48-*M/14.5**	Nickel Plated CuZn or Stainless Steel 250 V, 4 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	1. BN 2. N/C 3. BU 4. GY	**Female** 
FKV 48-*M/14.75  **FSV 48-*M/14.75** 	**FKV 48-*M/14.75**	**FSV 48-*M/14.75**	Nickel Plated CuZn or Stainless Steel 250 V, 4 A, -40 °C to +105 °C, 3/4-14 NPT full length threads		
FKV 48-*M  **FKV 48-*M** 	**FKV 48-*M/M20**	**FSV 48-*M/M20**	Nickel Plated CuZn or Stainless Steel 250 V, 4 A, -40 °C to +105 °C, M20x1.5 threads		**Male** 

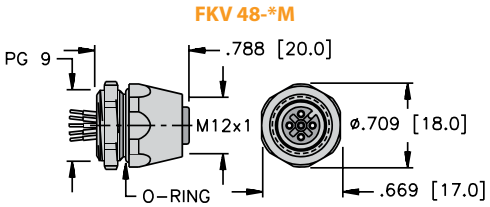
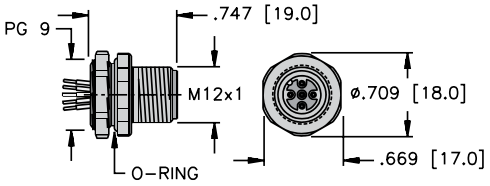
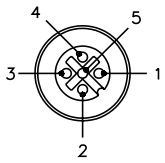
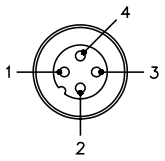
Standard cable length is 0.5 meters. Consult factory for other lengths
Standard housing material is nickel plated brass. "RKFV ..."; indicates 316 stainless steel housing.

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-PA, (M12x1) Eurofast® Female Receptacles

- **Mounted Quick Connection to Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FKV 48-*M  **FSV 48-*M** 	**FKV 48-*M**	**FSV 48-*M**	Nickel Plated CuZn or Stainless Steel 250 V, 4 A, -40 °C to +105 °C, PG 9 threads	1. BN 2. N/C 3. BU 4. GY	**Female**  **Male** 

Standard cable length is 0.5 meters. Consult factory for other lengths
Standard housing material is nickel plated brass. "RKFV ..."; indicates 316 stainless steel housing.

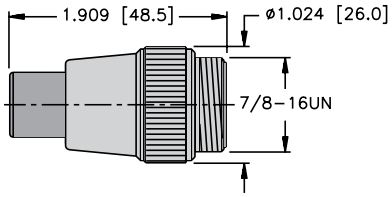
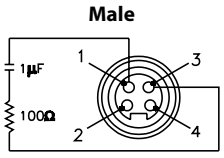
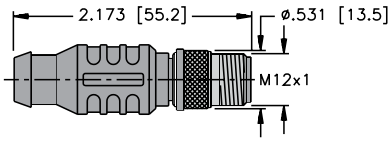
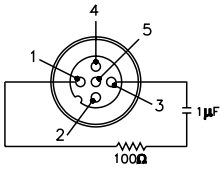
We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–PA Physical Media Connectivity

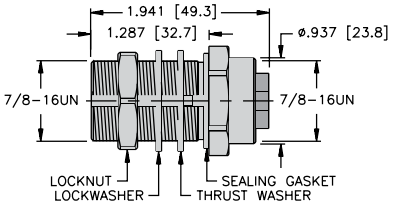
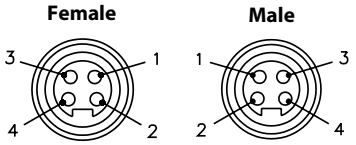
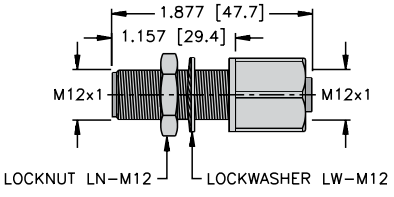
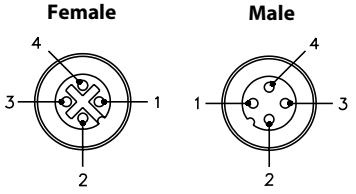
PROFIBUS-PA, Terminating Resistors

- **Terminating Resistors stabilize and minimize reflections on the Bus Line**
- **A Terminating Resistor is required at the beginning and end of the Main Bus Line**

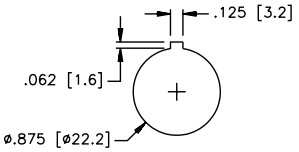
Housing Style	Part Number	Features	Pinout
	**RSV 48 TR**	Nickel plated brass or stainless steel, 300 V, 9 A, -40 °C to +75 °C, male Minifast® connector	
	**RSEV 48-TR**	Nickel plated brass or stainless steel, 250 V, 4 A, -40 °C to +75 °C, male Eurofast® connector	

PROFIBUS-PA, Feed Through Connectors

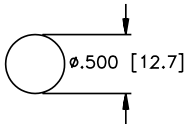
- **Receptacles provide transition from Male to Female Connectors**
- **Available for Bulkhead and Feed Through applications**

Housing Style	Part Number	Features	Pinout
	**RSFV RKFV 48/22**	Stainless steel, 300 V, 9 A, -40 °C to +75 °C, straight male/female feed through, for use with molded Minifast cordsets	
	**FKV FSV 48/M12**	Stainless steel, 250 V, 4 A, -40 °C to +75 °C, straight male/female connector, for pre-molded Eurofast cables	

Panel Cutout RSFV RKFV 48/22



Panel Cutout WFS

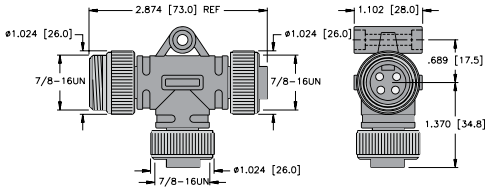
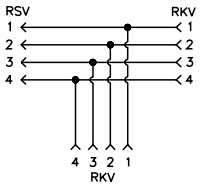
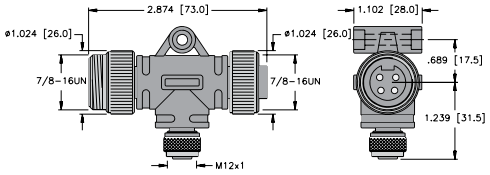
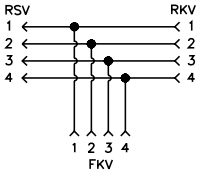
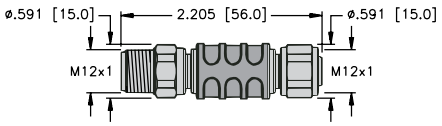
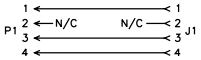


We reserve the right to make technical alterations without prior notice.

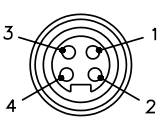
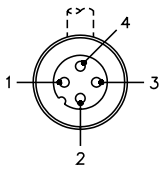
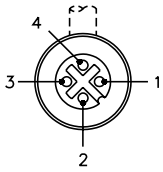
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PROFIBUS-PA, Tees

- **Creates a Drop or Branch from the Main Bus Line**
- **Minifast® Connectors on Bus or Drop Lines**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSV-2RKV 48**	TPU, 250 V, 4 A, -40 °C to +75 °C, data, ground, shield, stainless steel, coupling nuts	
	**RSV FKV RKV 48**	TPU, 250 V, 4 A, -40 °C to +75 °C, Minifast to Eurofast® drop, data, ground, shield, stainless steel coupling nuts	
	**RSCV RKCV 48**	TPU, 250 V, 4 A, -40 °C to +105 °C, stainless steel coupling nuts	

Pinouts

Minifast		Eurofast	
Male	Female	Male	Female
			

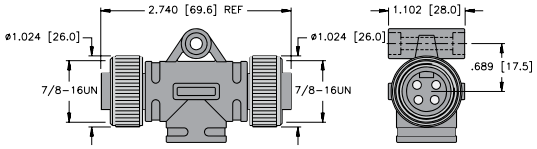
We reserve the right to make technical alterations without prior notice.

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

PROFIBUS®–PA Physical Media Connectivity

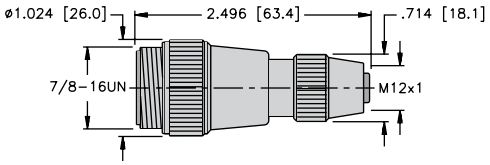
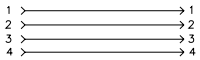
PROFIBUS-PA, Gender Changer

- **Allows quick and easy changes from Male to Female Minifast® from Connectors**

Housing Style	Part Number	Features
	**RKV RKV 48**	TPU, 250 V, 4 A, -40 °C to +75 °C, changes female cordset to male receptacle

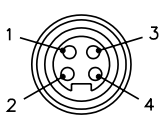
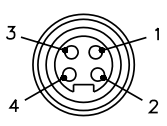
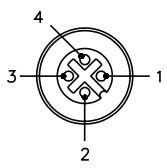
PROFIBUS-PA, Conversion Connector

- **Allows Quick and Easy Changes from Minifast® to Eurofast® Connectors**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM 48-FK 4.4**	Nickel plated brass CuZn or Stainless Steel, 250 V, 4 A, -40 °C to +80 °C, female Eurofast, male Minifast, 4-pin	

We reserve the right to make technical alterations without prior notice.

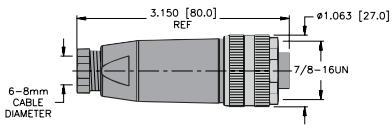
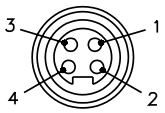
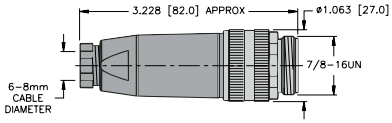
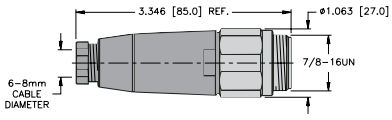
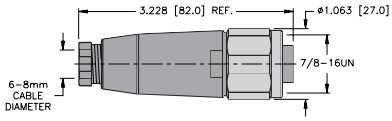
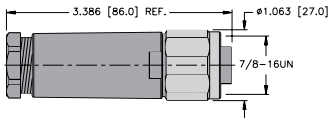
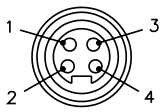
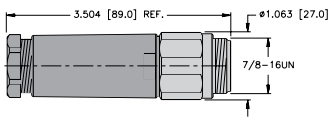
Pinouts

Minifast		Eurofast
Male	Female	Female
		

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

PROFIBUS-PA, Minifast® Field Wireable Connectors

- **Screw Terminals accept up to 16 AWG Conductors**

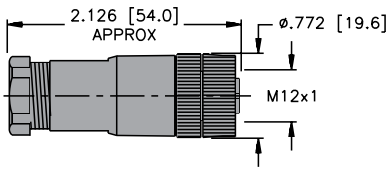
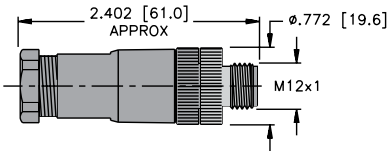
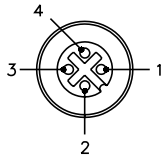
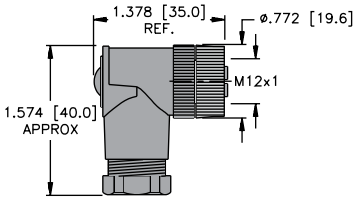
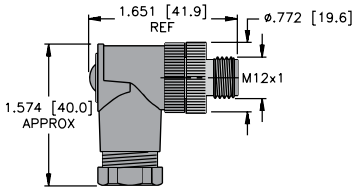
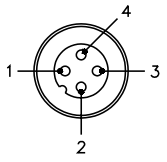
Housing Style	Female Part Number	Female Part Number	Features	Pinout
BK 414.. 	**BK 4140-0/9**	**BS 4140-0/9**	Plastic, TPU (cable grip: Plastic, PU), Anodized Aluminum, PG 0/9 cable gland accepts 6-8 mm cable diameter, -40 °C to +90 °C (-40 °F to +194 °F), 250 V, 9 A, mates with all 4-pin Minifast cordsets and receptacles	**Female** 
BS 414.. 				
BSV 414.. 	**BKV 4140-0/9**	**BSV 4140-0/9**	Glass filled nylon, stainless steel coupling nut, PG 0/9 cable gland accepts 6-8 mm cable diameter, -40 °C to +90 °C (-40 °F to +194 °F), 300 V, 9 A, mates with all 4-pin Minifast cordsets and receptacles	
BKV 414.. 				
BKV 414.. 	**BKV 4140-0/16**	**BSV 4140-0/16**	Glass filled nylon, stainless steel coupling nut, PG 16 cable gland accepts 10-12 mm cable diameter, -40 °C to +90 °C (-40 °F to +194 °F), 600 V, 9 A, mates with all 4-pin Minifast cordsets and receptacles	**Male** 
BSV 414.. 				

We reserve the right to make technical alterations without prior notice.

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

PROFIBUS-PA, Eurofast® Field Wireable Connectors

- **Screw Terminals accept up to 18 AWG Conductors**

Housing Style	Female Part Number	Female Part Number	Features	Pinout
B 814..  **BS 814..** 	**B 8141-0/PG9**	**BS 8141-0/PG9**	PBT, Black, PG 9 cable gland, accepts 4-8 mm cable diameter, 85 °C, 125 V, 4 A, mates with standard key 4-pin Eurofast cordsets and receptacles	**Female** 
B 824..  **BS 824..** 	**B 8241-0/PG9**	**BS 8241-0/PG9**	PBT, Black, PG 9 cable gland, accepts 4-8 mm cable diameter, 85 °C, 125 V, 4 A, mates with standard key 4-pin Eurofast cordsets and receptacles	**Male** 

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	R4
Cordsets	R7
Receptacles	R15
Field Wireables	R19
Accessories	R21

Features

- Cables that meet the requirements of EN 50295 for communication up to 167 KBAUD
- ITC-ER/PLTC-ER rated cable (CSA FT4)
- Oil resistant II and sunlight resistant
- 7/8 and M12 connectors
- Up to 9 Amps and 600 Volt rated
- IP67/IP69K rated

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

AS-interface System Description

AS-interface (commonly referred to as AS-I) is a low-level I/O interface system. It was originally intended to be a simple, low cost system that would be easy to install and maintain. With that philosophy in mind, the original developers designed AS-I as a discrete-only two-wire system. It incorporated features like automatic station addressing, and power and data were carried on a single untwisted pair of wires.

As the demand for AS-I grew, so did the demand for more complex devices. The next major version of AS-I, v2.1, extended the protocol to include seamless transfer of analog data, transmission of simple diagnostic data, and an extended addressing scheme that effectively doubled the number of stations allowed on the network. The newest version of AS-I, v3.0, has gone even further, allowing more options for analog data and much more detailed diagnostic information to be communicated. New versions of AS-I are backward compatible and support slaves from earlier versions. Additionally, AS-I was one of the first network systems to incorporate a safety protocol, allowing emergency-stop and machine-stop systems to be seamlessly integrated with the network.

AS-I can be used as a stand alone network or can be connected to a higher level system, such as DeviceNet™ or PROFIBUS®-DP, through a gateway. The gateway acts as a slave to the higher system and a master to the AS-I system.

Cordsets

Turck offers a complete line of molded AS-I cordsets to facilitate network installation, resulting in a faster start-up and fewer wiring errors. The bus and drop cables are specially designed foil-shielded, high-flex cables with very low inductance and capacitance to minimize propagation delay time. AS-I cables consist of a single untwisted and unshielded wire pair that carries both 30 VDC power and the network data. AS-I was originally designed for use with flat cable using an insulation displacement connection technology, but the use of round cables with sealed connectors has become more common. Turck provides both cable options.

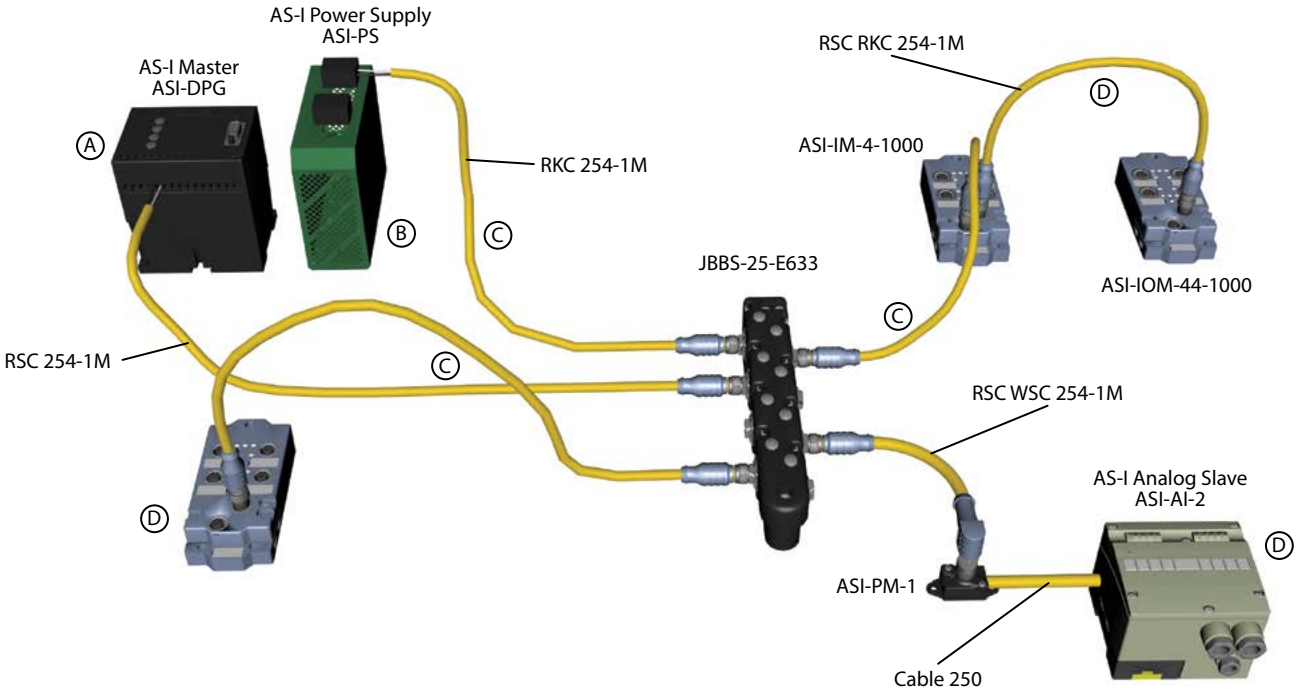
Maximum Ratings

The AS-I system uses a freeform layout topology. Up to 100 m of cable can be used on a segment before a repeater or tuner needs to be installed to allow the network to be extended beyond the 100 m limit. No terminating resistors are required.

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

Typical System Configuration

Basic Parts List



A typical AS-I system consists of the following parts:

- A - Master
- B - AS-I Power Supply
- C - AS-I Cable (See N2)
- D - AS-I I/O Modules (or Slaves)

AS-I stations require a network master (also called a scanner) to interface the stations to the host controller. In some cases the scanner and controller are packaged as a single unit; in other cases the scanner acts as a gateway to a higher level network or to a PLC. Turck AS-I stations are designed to be fully compatible with AS-I equipment from other manufacturers.

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

AS-interface® Physical Media Connectivity

Minifast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

W	K	M		25x	-	*M

7/8-16 UN (Minifast)

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Coupling Nut Material

(blank) = Nylon
M = Nickel Plated Brass
V = Stainless Steel

Length in Meters (*)

Consult factory for other lengths.

Protocol

25 = AS-interface

Minifast Receptacle Part Number Key

R	K	F		V		25x	-	*M	/NPT

7/8-16 UN (Minifast)

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads

Designator for Receptacle

Mounting Style

(Blank) = Front Mount
P = Back Panel Mount

Material

(Blank) = Nickel Brass
K = Nylon
V = Stainless Steel

Connection Type

(Blank) = Leads or PCB Pins
L = Solder Cup

Connection Thread

(Blank) = 1/2-14 NPSM Threads
/14.5 = 1/2-14 NPT Full Length Threads
/14.75 = 3/4-14 NPT Full Length Threads
/M20 = M20 Threads

Length in Meters (*)

Consult factory for other lengths.

Protocol

25 = AS-interface

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

Eurofast® Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	S	C	W	V	25x	-	*M

M12x1 (Eurofast)
R = Straight
W = Right Angle

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Plug Body
C = Large Plug Body
G = Robust Large Plug Body

Keying Options
(blank) = Standard Key

Coupling Nut Material
(Blank) = Nickel Plated Brass
K = Nylon
V = Stainless Steel

Cable Type (x)
25 = AS-interface

Length in Meters (*)
Consult factory for other lengths.

Eurofast Receptacle Part Number Key

F	S	F	V		25x	-	*M	/14.5

M12x1 (Eurofast)

Gender
K = Female Connector, Female Threads
S = Male Connector, Male Threads

Housing Style
(Blank) = Front Mount
FD = Standard Back Panel Mount
SDE = Shielded Back Panel Mount, Large Body

Coupling Nut Material
(blank) = Nickel Plated Brass
V = Stainless Steel

Keying Options
(Blank) = Standard Key

Cable Type (x)
25 = AS-interface

Length in Meters (*)
Consult factory for other lengths.

Connection Thread
(Blank) = PG 9 thread
/14.5 = 1/2 - 14 NPT full length threads
/14.75 = 3/4 - 14 NPT full length threads
/M20 = M20 threads

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

Notes

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

AS-interface, Cable Specifications

- **AS-interface Cable that meets the requirements of EN50295e for communication up to 167 Kbaud**
- **Maximum cable length per segment is 100 meters**

Figure A

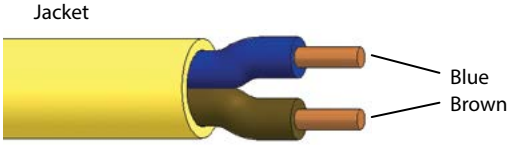


Figure B

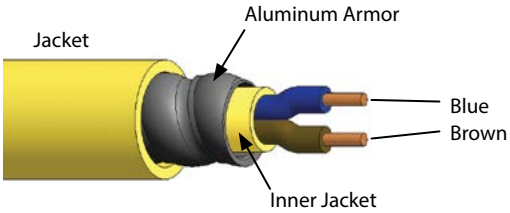
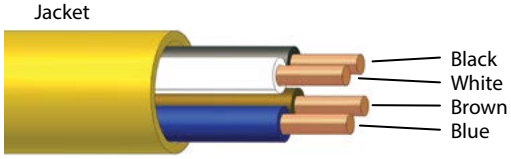


Figure C



Type	Approvals	Data Pair		Outer Jacket	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	
254 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X16 AWG BU/BN	4.1 Ohms PVC	PVC, YELLOW, 7.2 mm (.285 in)	RB50852-*M, 49 lbs.
254BK 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X16 AWG BU/BN	4.1 Ohms PVC	PVC, BLACK, 7.2 mm (.285 in)	RB51029-*M, 49 lbs.
254B 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	2X16 AWG BU/BN	4.1 Ohms PVC	PVC, BLUE, 7.2 mm (.285 in)	RB50962-*M, 49 lbs.
255A 105 °C, 300 V	UL ITC-ER DB CSA ACIC HL-ABCD, FT1 FT4	2X16 AWG BU/BN	4.1 Ohms PVC	Armor, PVC YELLOW, 15.2 mm (.600 in)	RB50966-*M, 173 lbs.
2544 105 °C, 600 V	c(UL) 1309 MS, ITC-ER DB, CIC/TC, FT1 FT4	4X16 AWG BN/WH/BU/BK	4.1 Ohms PVC	PVC, YELLOW, 8.5 mm (.335 in)	RB51875-*M, 81 lbs.

* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

AS-interface® Physical Media Connectivity

AS-interface, Cable and Cordset Selection Matrix

		Minifast®				Eurofast®
		Male		Female		Male
		1 RSM	2 WSM	3 RKM	4 WKM	7 RSC
	Bare	RSM 25x-*M	WSM 25x-*M	RKM 25x-*M	WKM 25x-*M	RSC 25x-*M
Minifast (Male)	1 RSM	RSM RSM 25x-*M	RSM WSM 25x-*M	RSM RKM 25x-*M	RSM WKM 25x-*M	RSM RSC 25x-*M
Minifast (Male)	2 WSM		WSM WSM 25x-*M	WSM RKM 25x-*M	WSM WKM 25x-*M	WSM RSC 25x-*M
Minifast (Female)	3 RKM			RKM RKM 25x-*M	RKM WKM 25x-*M	RKM RSC 25x-*M
Minifast (Female)	4 WKM				WKM WKM 25x-*M	WKM RSC 25x-*M
Eurofast (Male)	7 RSC					RSC RSC 25x-*M
Eurofast (Male)	8 WSC					
Eurofast (Female)	9 RKC					
Eurofast (Female)	10 WKC					

See pages R10 - R11 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

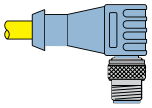
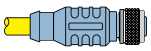
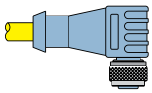
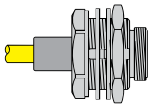
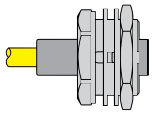
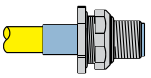
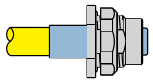
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15....50 meters. Consult factory for other lengths.

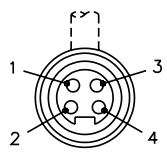
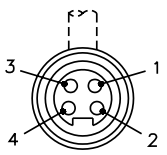
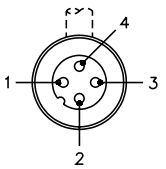
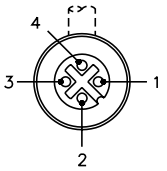
For stainless steel coupling nuts change part number RSM … to RSV, WSM … to WSV. For Eurofast Armorfast® cable RSC … to RSA.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Cable and Cordset Selection Matrix

Eurofast®			Minifast® Bulkhead		Eurofast Bulkhead	
Male	Female		Male	Female	Male	Female
8 	9 	10 	5 	6 	11 	12 
WSC	RKC	WKC	RSFP	RKFP	FSFD	FKFD
WSC 25x-*M	RKC 25x-*M	WKC 25x-*M	RSFP 25x-*M	RKFP 25x-*M	FSFD 25x-*M	FKFD 25x-*M
RSM WSC 25x-*M	RSM RKC 25x-*M	RSM WKC 25x-*M	RSM RSFP 25x-*M	RSM RKFP 25x-*M	RSM FSFD 25x-*M	RSM FKFD 25x-*M
WSM WSC 25x-*M	WSM RKC 25x-*M	WSM WKC 25x-*M	WSM RSFP 25x-*M	WSM RKFP 25x-*M	WSM FSFD 25x-*M	WSM FKFD 25x-*M
RKM WSC 25x-*M	RKM RKC 25x-*M	RKM WKC 25x-*M	RKM RSFP 25x-*M	RKM RKFP 25x-*M	RKM FSFD 25x-*M	RKM FKFD 25x-*M
WKM WSC 25x-*M	WKM RKC 25x-*M	WKM WKC 25x-*M	WKM RSFP 25x-*M	WKM RKFP 25x-*M	WKM FSFD 25x-*M	WKM FKFD 25x-*M
RSC WSC 25x-*M	RSC RKC 25x-*M	RSC WKC 25x-*M	RSC RSFP 25x-*M	RSC RKFP 25x-*M	RSC FSFD 25x-*M	RSC FKFD 25x-*M
WSC WSC 25x-*M	WSC RKC 25x-*M	WSC WKC 25x-*M	WSC RSFP 25x-*M	WSC RKFP 25x-*M	WSC FSFD 25x-*M	WSC FKFD 25x-*M
	RKC RKC 25x-*M	RKC WKC 25x-*M	RKC RSFP 25x-*M	RKC RKFP 25x-*M	RKC FSFD 25x-*M	RKC FKFD 25x-*M
		WKC WKC 25x-*M	WKC RSFP 25x-*M	WKC RKFP 25x-*M	WKC FSFD 25x-*M	WKC FKFD 25x-*M

Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Brown (+ Voltage) 2. N/C 3. Blue (- Voltage) 4. N/C		

We reserve the right to make technical alterations without prior notice.

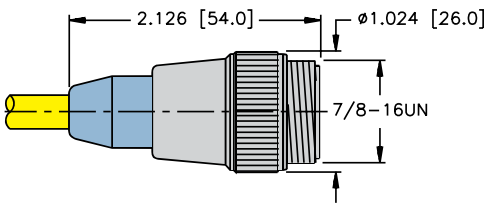
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

AS-interface, Minifast® Cordset and Receptacle Connector Dimensions

Specifications

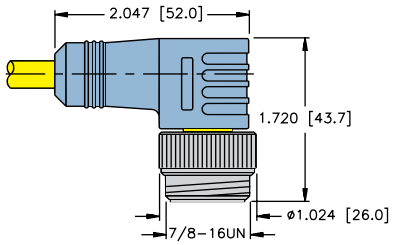
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	300 V
Contact Carrier:	TPU (Polyurethane)	**Rated Current:**	9 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)

1



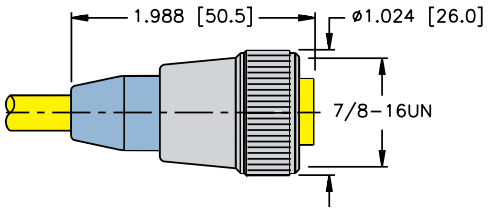
RSM .. **Page R8**

2



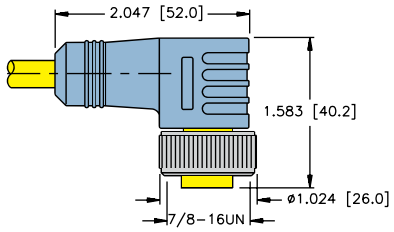
WSM .. **Page R8**

3



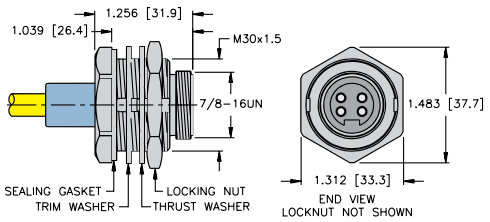
RKM .. **Page R8**

4



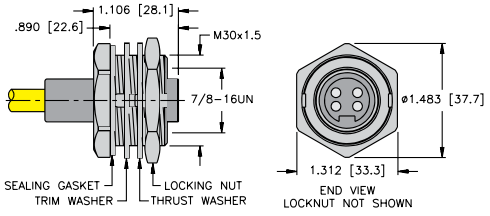
WKM .. **Page R8**

5



RSFP .. **Page R9**

6



RKFP .. **Page R9**

We reserve the right to make technical alterations without prior notice.

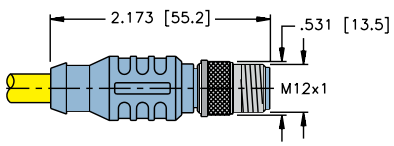
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

AS-interface, Eurofast® Cordset Connector Dimensions / Configuration

Specifications

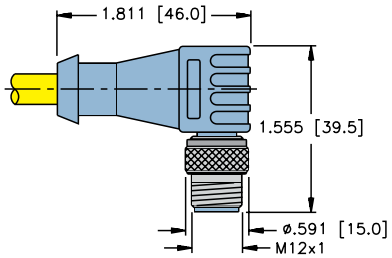
Overmold:	TPU	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	**Rated Voltage:**	250 V
Contact Carrier:	TPU or POM (Nylon)	**Rated Current:**	4 A
Contacts:	Gold Plated CuZn	**Ambient Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)

7



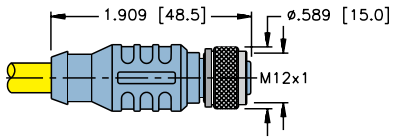
RSC .. **Page R8**

8



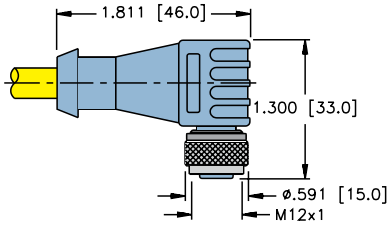
WSC .. **Page R8**

9



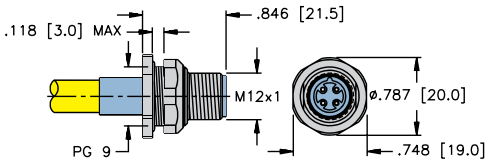
RKC .. **Page R8**

10



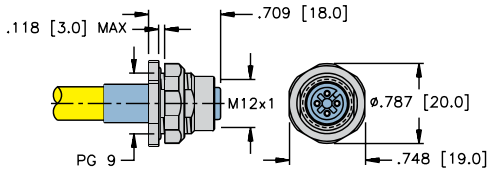
WKC .. **Page R8**

11



FSFD .. **Page R9**

12



FKFD .. **Page R9**

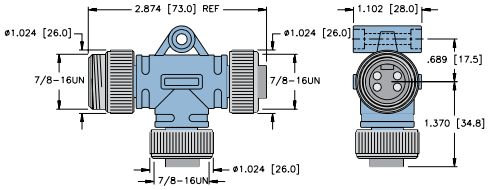
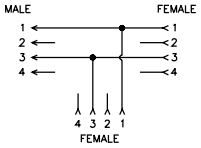
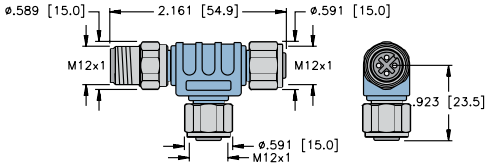
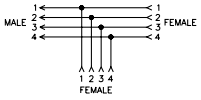
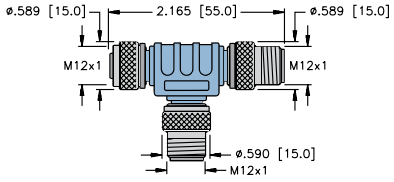
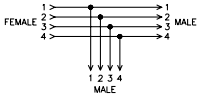
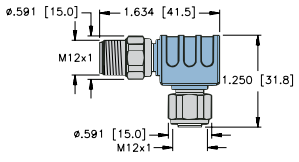
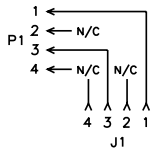
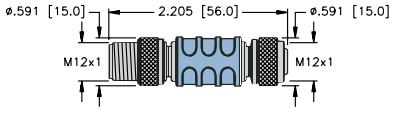
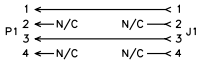
We reserve the right to make technical alterations without prior notice.

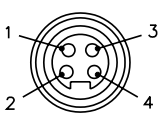
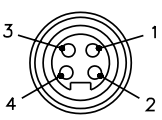
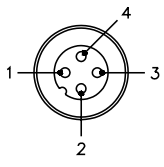
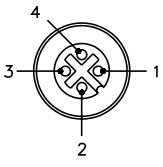
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

AS-interface® Physical Media Connectivity

AS-interface, Tees

- **Creates a Drop or Branch from the Main Bus Line**
- **Available in Minifast® or Eurofast® Bus or Drop Lines**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSV 2RKV 25**	TPU (Polyurethane), stainless steel, 250 V, 4 A (Eurofast), 9 A (Minifast), -40 °C to +80 °C, Minifast drop connector	
	**RSCV 2RKCV 25**	TPU (Polyurethane), stainless steel, 250 V, 4 A (Eurofast), -30 °C to +90 °C, Eurofast female drop connector	
	**RKC 2RSC 25**	TPU (Polyurethane), stainless steel, 250 V, 4 A (Eurofast), -30 °C to +90 °C, Eurofast male drop connector, nickel plated brass	
	**RSCV WKCV 25**	TPU (Polyurethane), stainless steel, 250 V, 4 A (Eurofast), -40 °C to +105 °C, Eurofast male elbow	
	**RSC RKC 25**	TPU (Polyurethane), stainless steel, 250 V, 4 A (Eurofast), -40 °C to +105 °C, Eurofast male	

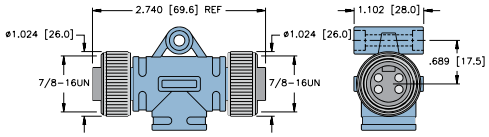
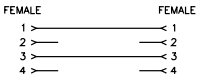
Minifast		Pinouts	Eurofast	
Male	Female		Male	Female
		1. Brown (+ Voltage) 2. N/C 3. Blue (- Voltage) 4. N/C		

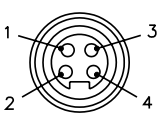
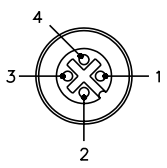
We reserve the right to make technical alterations without prior notice.

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

AS-interface, Gender Changers and Elbow Connectors

- **Allows Quick and Easy Change from Male to Female Minifast® Connectors**

Housing Style	Part Number	Specs	Application	Wiring Diagrams
	**RKM RKM 25**	TPU (Polyurethane) 250 V, 9 A -40 °C to +80 °C	Minifast Female Gender Changer • Male cordset to female receptacle	

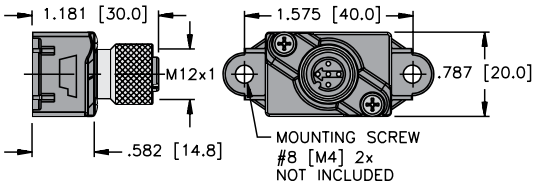
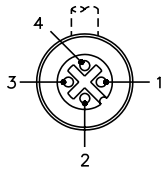
Minifast	Pinouts	Eurofast
Male		Female
	1. Brown (+ Voltage) 2. N/C 3. Blue (- Voltage) 4. N/C	

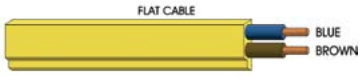
We reserve the right to make technical alterations without prior notice.

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

AS-interface, Eurofast® Flat Cable Adapter

- **Allows the mixing of standard AS-I Flat Cable with Eurofast Round Cable in same system**
- **May be needed when going from a dry to a wet environment or an area where better sealing and Rugged Connectors are required**

Housing Style	Part Number	Features	Pinout
	**ASI-PM-1 BW1239**	TPU (Polyurethane) 250 V, 4 A -40 °C to +75 °C	**Female** 

	Type	Approvals	Data Pair		Outer Jacket	Bulk Cable Part Number / Weight/300 M
			AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	
	**2501** **105 °C, 300 V**	UL 2103 CSA AWM	2X16 AWG BU/BN	4.1 Ohms TPE	TPE, YELLOW, Flat	RB51822-*M, 42 lbs.
	2511 **105 °C, 300 V**	UL 2103 CSA AWM	2X16 AWG BU/BN	4.1 Ohms TPE	TPE, BLACK, Flat	RB51821-*M, 42 lbs.
	253G **75 °C, 300 V**	UL PLTC CSA AWM II A/B, FT4	2X16 AWG BU/BN	4.1 Ohms PO	PVC, GRAY, Flat	RB51240-*M, 42 lbs.
	253BK **75 °C, 300 V**	UL PLTC CSA AWM II A/B, FT4	2X16 AWG BU/BN	4.3 Ohms PO	PVC, BLACK, Flat	RB51241-*M, 42 lbs.
	253Y **75 °C, 300 V**	UL PLTC CSA AWM II A/B, FT4	2X16 AWG BU/BN	4.3 Ohms PO	PVC, YELLOW, Flat	RB51242-*M, 42 lbs.

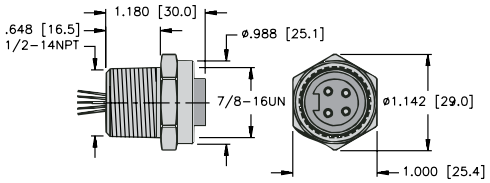
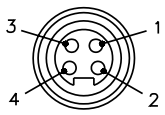
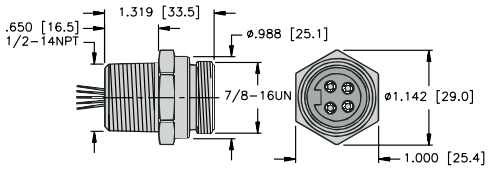
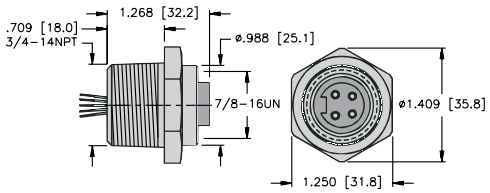
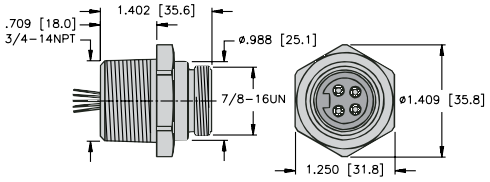
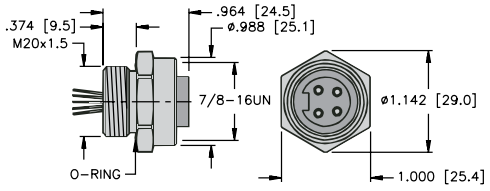
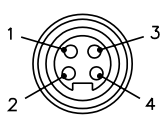
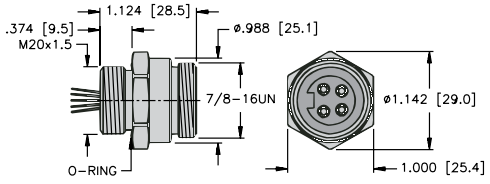
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Minifast® Male Receptacles

- Provides Quick Connection to Field Devices or Enclosures
- Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads
- (7/8-16 UN) Minifast Connection

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
RKF 25.../14.5 	**RKF 25-*M/14.5**	**RSF 25-*M/14.5**	Nickel plated CuZn or stainless steel 300 V, 9 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	1. BN 2. N/C 3. BU 4. N/C	**Female** 
RSF 25.../14.5 					
RKF 25.../14.75 	**RKF 25-*M/14.75**	**RSF 25-*M/14.75**	Nickel plated CuZn or stainless steel 300 V, 9 A, -40 °C to +105 °C, 3/4-14 NPT full length threads		
RSF 25.../14.75 					
RKF 25.../M20 	**RKF 25-*M/M20**	**RSF 25-*M/M20**	Nickel plated CuZn or stainless steel 300 V, 9 A, -40 °C to +105 °C, M20x1.5 threads		**Male** 
RSF 25.../M20 					

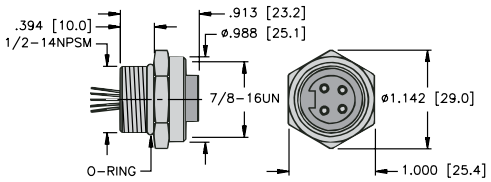
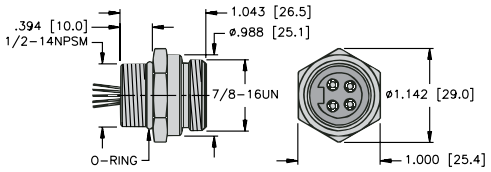
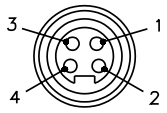
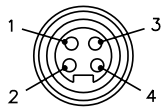
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Minifast® Male Receptacles

- **Provides Quick Connection to Field Devices or Enclosures**
- **Available for 1/2-14 NPT, 1/2-14 NPSM, 3/4-14 NPT and M20 Threads**
- **(7/8-16 UN) Minifast Connection**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
RKF ..  **RSF ..** 	**RKF 25-*M**	**RSF 25-*M**	Nickel plated CuZn or stainless steel 300 V, 9 A -40 °C to +105 °C, 1/2-14 NPSM threads	**Female**  **Male** 

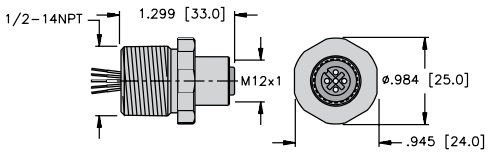
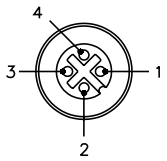
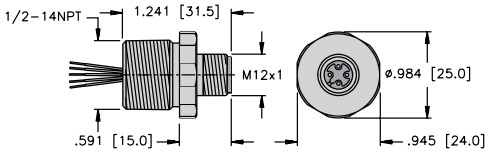
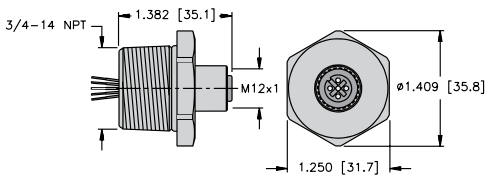
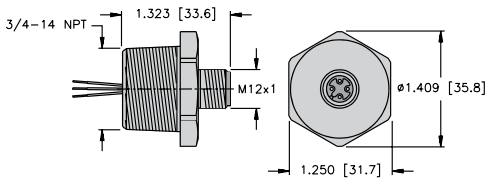
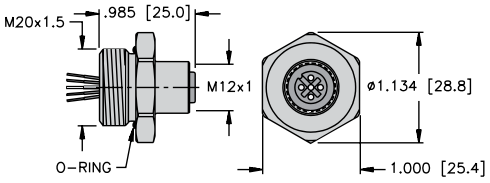
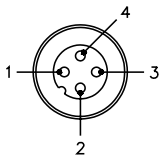
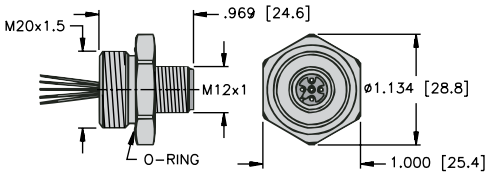
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF .."; "RKFV .." indicates 316 stainless steel housing.
For locknuts to be included, add "W/LN" to the end of the part number.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Eurofast® Male Receptacles

- **Mounted for Quick Connection to Enclosures**
- **(M12x1) Eurofast Connectors**

Housing Style	Female Part Number	Male Part Number	Features	Pinout	
FK 25...14.5 	**FK 25-*M/14.5**	**FS 25-*M/14.5**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 1/2-14 NPT full length threads	1. BN 2. N/C 3. BU 4. N/C	**Female** 
FS 25...14.5 					
FK 25...14.75 	**FK 25-*M/14.75**	**FS 25-*M/14.75**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, 3/4-14 NPT full length threads		
FS 25...14.75 					
FK 25.../M20 	**FK 25-*M/M20**	**FS 25-*M/M20**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, M20x1.5 threads		**Male** 
FS 25.../M20 					

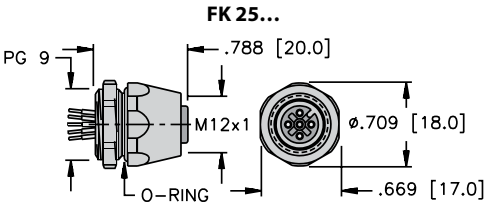
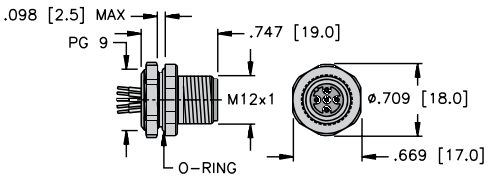
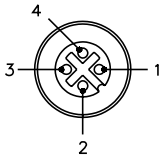
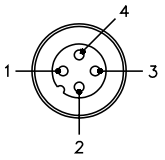
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Eurofast® Male Receptacles

- **Mounted for Quick Connection to Enclosures**
- **(M12x1) Eurofast Connectors**

Housing Style	Female Part Number	Male Part Number	Features	Pinout
FK 25...  **FS 25...** 	**FK 25-*M**	**FS 25-*M**	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40 °C to +105 °C, PG 9 threads	**Female**  **Male** 

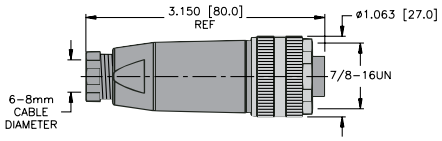
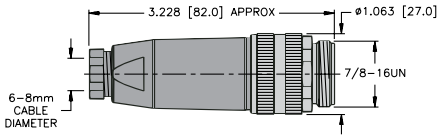
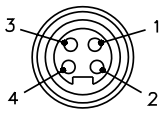
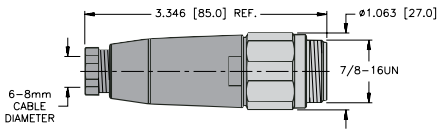
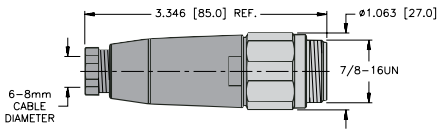
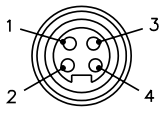
Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass. "RKF ..."; "RKFV ..." indicates 316 stainless steel housing.

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Minifast® Field Wireable Connectors with Labels

- Allows for Quick Connection when Pre-Molded Cables are not available
- Available for Male and Female Connectors
- Color Coded Wire Connection for AS-interface

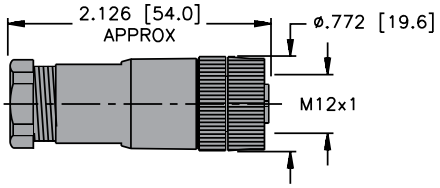
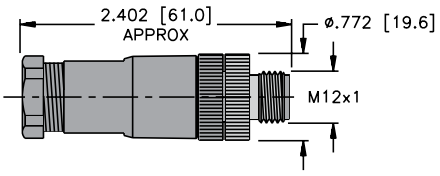
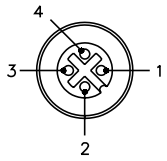
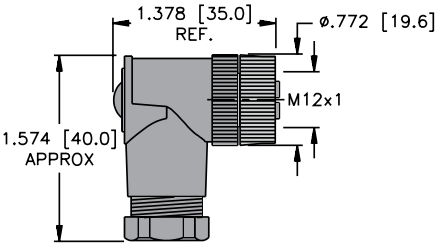
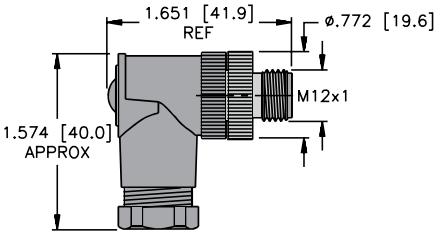
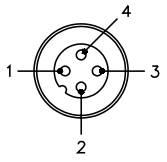
Housing Style	Female Part Number	Male Part Number	Features	Pinout
BK 41..  **BS 41..** 	**BK 4140-0/9/ASI**	**BS 4140-0/9/ASI**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 90 °C, 250 V, 9 A, mates with standard, 4-pin cordsets and receptacles	**Female** 
BKV 41..  **BSV 41..** 	**BKV 4140-0/9/ASI**	**BSV 4140-0/9/ASI**	Glass filled nylon, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 90 °C, 250 V, 9 A, mates with standard, 4-pin cordsets and receptacles, stainless steel housing	**Male** 

We reserve the right to make technical alterations without prior notice.

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

AS-interface, Eurofast® Field Wireable Connectors with Labels

- **Allows for Quick Connection when Pre-Molded Cables are not available**
- **Available for Male and Female Connectors**
- **Color Coded Wire Connection for AS-interface**

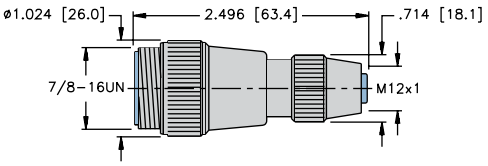
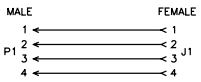
Housing Style	Female Part Number	Male Part Number	Features	Pinout
B 81..  **BS 81..** 	**B 8141-0/PG9/ASI**	**BS 8141-0/PG9/ASI**	PBT, black, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 85 °C, 250 V, 4 A, mates with standard, 4-pin cordsets and receptacles	**Female** 
B 82..  **BS 82..** 	**B 8241-0/PG9/ASI**	**BS 8241-0/PG9/ASI**	PBT, black, PG 9 cable gland, accepts 6-8 mm cable diameter, screw terminals, 85 °C, 250 V, 4 A, mates with standard, 4-pin cordsets and receptacles	**Male** 

We reserve the right to make technical alterations without prior notice.

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

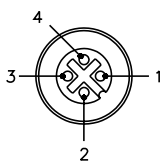
AS-interface, Gender Changer

- **Allows quick and easy change from Male to Female and (7/8-16 UN) Minifast® to (M12x1) Eurofast® Connectors**

Housing Style	Part Number	Features	Wiring Diagrams
	**RSM 25-FK 4.5**	Nickel plated CuZn or stainless steel, 250 V, 4 A, 40 °C to +75 °C, female Eurofast, male Minifast, 4-pin	

We reserve the right to make technical alterations without prior notice.

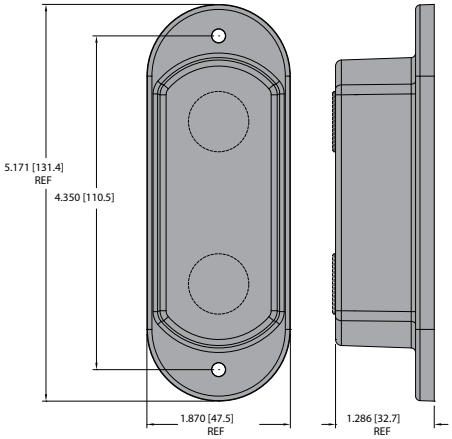
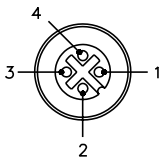
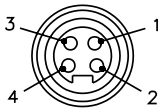
Pinouts

Minifast	Eurofast
Male	Female
	

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

FOUNDATION™ fieldbus, Conduit Adapters

- Converts Standard Conduits to Quick Disconnect
- Fiberglass Reinforced Nylon Housings
- Nickel Plated Brass Connectors available
- 3/4" Form 8 or Mark 9
- 1" Form 7 available upon request
- Gasket and Mounting Screws provided
- IP67

Housing Style	1 Port Part Number	2 Port Part Number	Specifications	Pinout
	**BCA-49-E123**	**BCA-49-E223**	3/4" Form 8 or Mark 9, M12 x 1 stainless steel connectors	**Female** 
	BCA-49-M123	**BCA-49-M223**	3/4" Form 8 or Mark 9, 7/8"-16 UN stainless steel connectors	**Female** 
	BCA-49SC-M123	**BCA-49SC-M223**	Short circuit protection, 3/4" Form 8 or Mark 9, 7/8"-16 UN stainless steel connectors	

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	S2
M12 (*eurofast*®)	S4
M8 (*picofast*®)	S42
7/8" (*minifast*®)	S52
1/2" (*microfast*®)	S66
Accessories	S70

Features

- Products for M12 Eurofast, M8 Picofast, 7/8" Minifast and 1/2 Microfast
- Consolidate up to 16 I/O signals
- AC or DC options
- PNP LED, NPN LED and non-LED offerings
- Multiple housing styles and materials

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

Junction Box Connectivity Products

M12 Eurofast® Standard and Low Profile Junction Box Part Number Keys

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

VB [ ] 40N - [ ] - 5 /S..

Eurofast Junction Box

Housing Material

(Blank) = Nylon, Connectors on Top
M = Metal, Connectors on Side

Number of Ports, Wiring

40N = 4 Port, NAMUR, 1 Signal per Port, Common Positive
40x1N = 4 Port, NAMUR, 1 Signal per Port, Isolated Circuit
40 = 4 Ports, 1 Signal per Port
40.5N = 4 Port, NAMUR, 2 Signals per Port, Common Positive
4x1.5N = 4 Port, NAMUR, 2 Signals per Port, Isolated Circuit
80 = 8 Ports, 1 Signal per Port

Varieties

/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

Cable Type (x)

* = Length of Integral Home Run Cable in Meters
CS y = Multifast® Connectors, y = Number of Pins
H1151 = Eurofast Connector, 5-pin

LED Options

(Blank) = No LEDs
P7Xn = PNP LEDs, n = Number of LEDs

8 MB [ ] 12 - 5 P 3 - K - FK

Number of Ports

4 = 4-ports
8 = 8-ports

Multibox

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Port Connector Type

M12 = miniature Eurofast
12 = Eurofast
12Z = Eurofast - low profile

Port Pin Count

4 = 4 pin
5 = 5 pin

LED Type

(Blank) = no LED
P = PNP LED
N = NPN LED

Varieties

CS 12 = 12 pin M23 male receptacle
CS 19 = 19 pin M23 male receptacle
CSV 12 = 12 pin M23 male stainless steel receptacle
CSV 19 = 19 pin M23 male stainless steel receptacle
* = Cable length
*-CSM12 = Molded 12 pin M23 male/female
*-CSSM12 = Molded 12 pin M23 male/male
*-CSM19 = Molded 19 pin M23 male/female
*-CSSM19 = Molded 19 pin M23 male/male
RSF 120 = 12 pin Minifast® male, receptacle
RSF 190 = 19 pin Minifast male, receptacle
*-RSM 120 = Molded 12 pin Minifast male
FK = Terminal chamber w/spring clamp
SK = Terminal chamber w/screw clamp
_H = Side exit connector

Body Material (terminal chamber only)

(Blank) = Nylon
K = Plastic
MS = Metal, Shielded

Number of LEDs

1 = power LED only
2 = 1 signal LED per Port, 1 power LED
3 = 2 signal LEDs per Port, 1 power LED
4 = 2 signal LEDs per Port, 2 power LEDs

M8 Picofast® Junction Box Part Number Key

VB 1003 [ ] - PX10 - BS1614

Picofast Junction Box

Number of Ports

1003 = 10-Port, 1 signal per Port

Varieties

* = Length of Integral Home Run Cable in Meters
BS14 = M16 Threads, 14-pins

LED Options

(Blank) = No LEDs
PXn = PNP LEDs, n = Number of LEDs

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

M8 Picofast® Junction Box Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

TB	-	8	M8	M	-	3	P2	-	FS8	/

Picofast Junction Box

Number of Ports

4 = 4-Port
8 = 8-Port

Port Connectors

M8 = M8 Picofast

Port Connection Type

M = M8x1 thread
Z = M8 Snap

Port Type

3 = 3-pin ports, 1 signal per port
4 = 4-pin ports, 2 signals per port

Port LED Type

(Blank) = No LEDs
P2 = PNP LEDs (3pin only)
N2 - NPN LEDs (3 pin ports only)

Homerun connector

FS8 = 8-pin M12
FS12 = 12-pin M12
* = cable length in meters

Special Modifiers, /S & /CS

7/8-16 UN Minifast® Junction Box Part Number Key

4	RKF	30	-	X5	-	6M	/S..

Number of Ports

4
6
8
Overmolded Junction Boxes
6
7

Type of Connector / Threads

RKF = Minifast, Female Contact Holder, Female Threads
RXF = Minifast, Female Contact Holder, Male Threads
MBMA = Minifast overmolded junction box

Number of Ports, Wiring

30 = 3-pin, Standard Wiring
301 = 3-pin, Series Wiring
40 = 4-pin, Standard Wiring
Overmolded Junction Boxes
3 = 250 VAC/300 VDC
3A2 = 40-120 VDC, LEDs for power and signal

LED Options

(Blank) = No LEDs
Xn = LEDs, n = Number of LEDs

Cable Type (x)

*M = Length of Integral Home Run Cable in Meters
CS12 = Multifast® Connector, 12-pin (only overmolded option)
B1131 = Minifast Connector, 3-pin
B1161 = Minifast Connector, 6-pin
RSF60 = Minifast Connector, 6-pin
RSF70 = Minifast Connector, 7-pin
RSF80 = Minifast Connector, 8-pin
RSF100 = Minifast Connector, 10-pin
RSF120 = Minifast Connector, 12-pin

Varieties

/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

multibox®

1/2" Microfast® Junction Box Part Number Key

VBKB	40	-	X5	-	CS12	/S..

Microfast Junction Box

Number of Ports, Wiring Type

40 = 4 Port, 1 Signal per Port
60 = 6 Port, 1 Signal per Port
80 = 8 Port, 1 Signal per Port

LED Options

(Blank) = No LEDs
Xn = LEDs, n = Number of LEDs

Cable Type (x)

(Number) = Length of Integral Home Run Cable in Meters
CS12 = Multifast Connector, 12-pins
B1161 = Minifast Connector, 6-pins

Varieties

/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- **Single Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

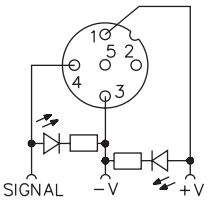
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port, Integral cable	2 A/signal, 9 A total Yellow PVC cable 7/18 AWG foil shield and 20 AWG drain	Function +V - V Ground	Color BN BU GN / YE	Function Port 1 Port 2 Port 3 Port 4	Color WH GN YE GY	4MB12Z-4-*	4MB12Z-4P2-*	4MB12Z-4N2-*
4-port J-box 1 signal per port, Multifast® front connector	2 A/signal, 9 A total 12-pin Multifast connector 7 conductors. Mates with CKCM 12-7-*	Function +V - V Ground	Pin / Color 11/BN 10/BU 12 / GN/YE	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 1 / WH 2 / GN 3 / YE 4 / GY	4MB12Z-4-CS12	4MB12Z-4P2-CS12	4MB12Z-4N2-CS12
4-port J-box 1 signal per port, Multifast side exit connector	2 A/signal, 9 A total 12-pin Multifast connector 7 conductors. Mates with CKCM 12-7-*	Function +V - V Ground	Pin / Color 11/BN 10/BU 12 / GN/YE	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 1 / WH 2 / GN 3 / YE 4 / GY	4MB12Z-4-CS12H	4MB12Z-4P2-CS12H	4MB12Z-4N2-CS12H

* Cable length in meters.

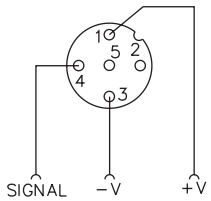
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(No LED Version)
1 Signal per Port



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

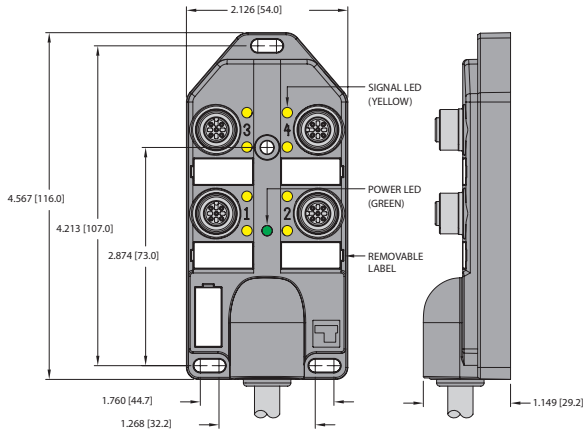
Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

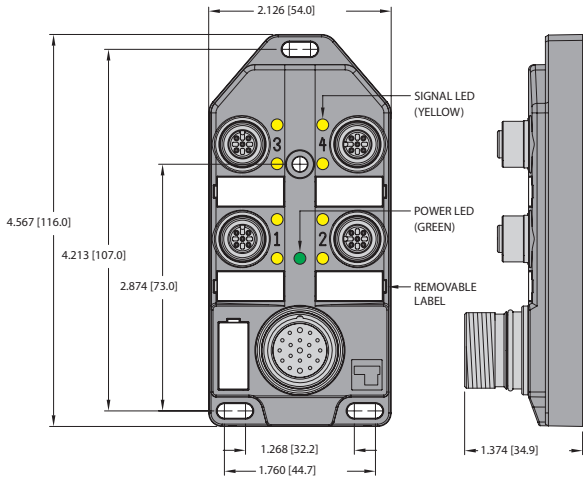
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

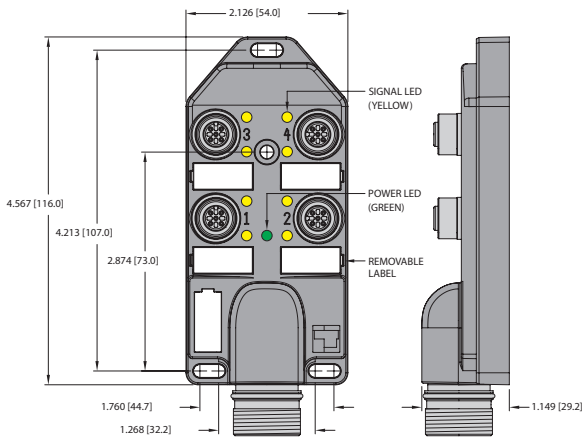
4-Port with Integral Home Run Cable



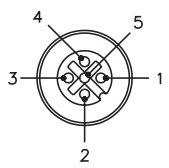
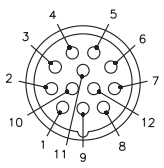
4-Port Quick Disconnect



4-Port Side Connector



Pinout

5-Pin Eurofast	12-Pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- **Single Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **Minifast® Quick Disconnect or Integral Home Run Cable with Minifast Connector**
- **Threaded M12 Connection**

4-Port, 1 Signal per Port, 10-30 VDC

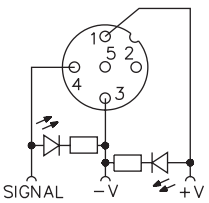
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port, integral cable with Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M	Function +V - V Ground	Pin / Color 10 / RD 11 / WH 9 / GN	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 1 / OG 2 / BU 3 / WH/BK 4 / RD/BK	4MB12Z-4-*-RSM 120	4MB12Z-4P2-*-RSM 120	4MB12Z-4N2-*-RSM 120
4-port J-box 1 signal per port, Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M	Function +V - V Ground	Pin / Color 10 / RD 11 / WH 9 / GN	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 1 / OG 2 / BU 3 / WH/BK 4 / RD/BK	4MB12Z-4-RSF120	4MB12Z-4P2-RSF120	- - - - -

* Cable length in meters.

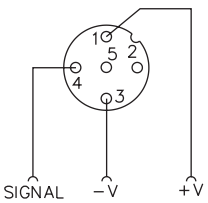
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(No LED Version)
1 Signal per Port



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

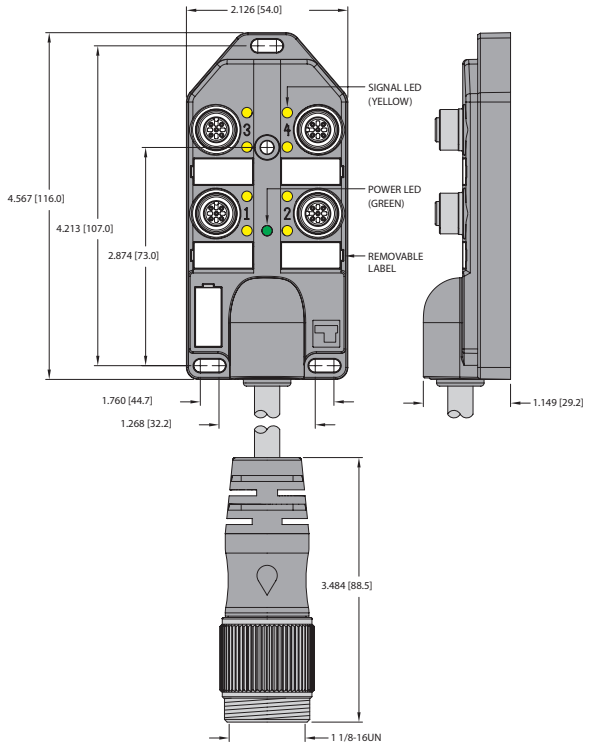
Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

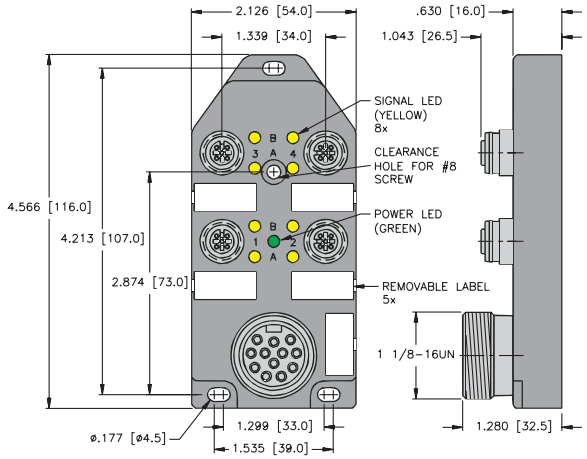
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

4-Port, Integral Home Run with Minifast® Connector

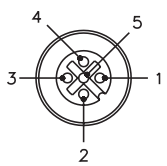
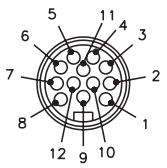


4-Port, Minifast Quick Disconnect



We reserve the right to make technical alterations without prior notice.

Pinout

5-Pin Eurofast	12-Pin Minifast
Female	Male
	

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- **Dual Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

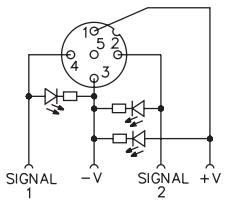
4-Port, 2 Signals per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 2 signals per port Integral cable	2 A/signal 9 A total Yellow PVC cable 3/18 AWG, 8/22 AWG foil shield and 20 AWG drain	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2	Color BN BU GN / YE WH GY / PK	Function Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2	Color GN RD / BU YE WH / GN GY BN / GN	4MB12Z-5-*	4MB12Z-5P3-*	4MB12Z-5N3-*
4-port J-box 2 signals per port Multifast® connector	2 A/signal 9 A total 19-pin Multifast connector 11 conductors. Mates with CKM 19-11-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2	Color 19 / BN 6 / BU 12 / GN / YE 15 / WH 7 / GY / PK	Function Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2	Color 5 / GN 4 / RD / BU 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN	4MB12Z-5-CS19	4MB12Z-5P3-CS19	4MB12Z-5N3-CS19
4-port J-box 2 signals per port Multifast, side exit connector	2 A/signal 9 A total 19-pin Multifast connector 11 conductors. Mates with CKM 19-11-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2	Color 19 / Bn 6 / Bu 12 / GN / YE 15 / WH 7 / Gy / Pk	Function Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2	Color 5 / GN 4 / Rd / Bu 16 / YE 8 / WH / GN 3 / Gy 14 / Bn / Gn	4MB12Z-5-CS19H	4MB12Z-5P3-CS19H	4MB12Z-5N3-CS19H

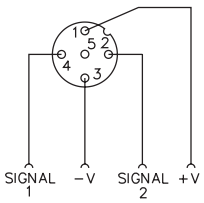
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals per Port



(No LED Version)
2 Signals per Port



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

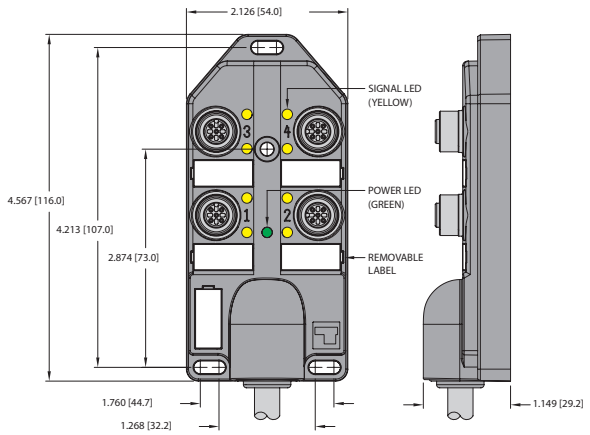
Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

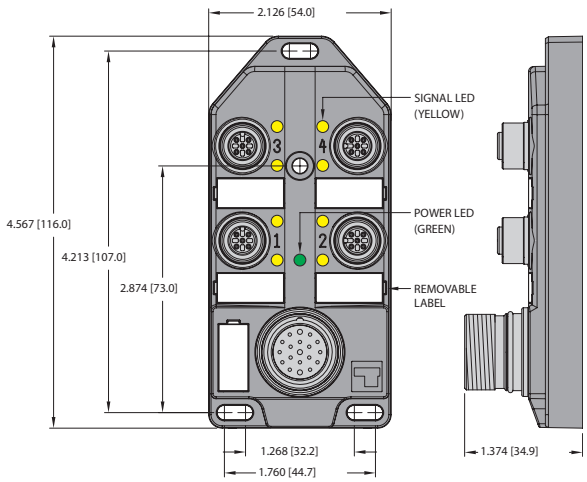
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

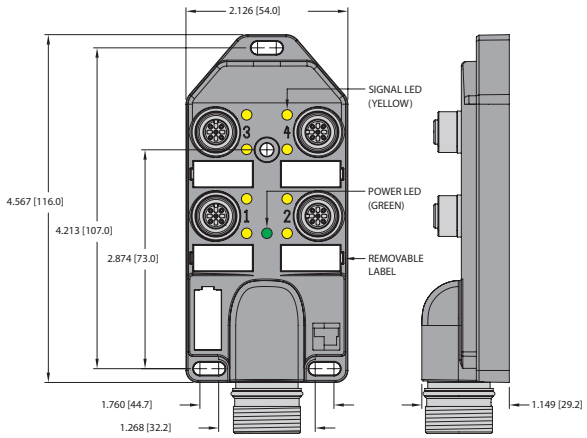
4-Port with Integral Home Run Cable



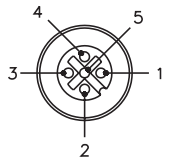
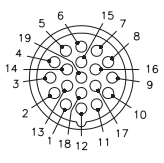
4-Port Quick Disconnect



4-Port Side Connector



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

- **Single Input/ Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

6-Port, 1 Signal per Port, 10-30 VDC

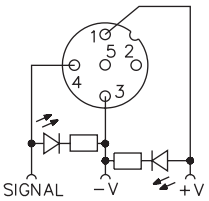
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
6-port J-box 1 signal per port, Integral cable	2 A/signal 9 A total Yellow PVC cable 9/18 AWG foil shield and 20 AWG drain	Function +V - V Ground	Color BN BU GN / YE	Function Port 1 Port 2 Port 3 Port 4 Port 5 Port 6	Color WH GN YE GY PK RD	6MB12Z-4-*	6MB12Z-4P2-*	6MB12Z-4N2-*
6-port J-box 1 signal per port, Multifast® connector	2 A/signal 9 A total 12-pin Multifast connector 9 conductors. Mates with CKCM 12-9-*	Function +V - V Ground	Pin / Color 11 / BN 10 / BU 12 / GN / YE	Function Port 1 Port 2 Port 3 Port 4 Port 5 Port 6	Pin / Color 1 / WH 2 / GN 3 / YE 4 / GY 5 / PK 6 / RD	6MB12Z-4-CS12	6MB12Z-4P2-CS12	6MB12Z-4N2-CS12
6-port J-box 1 signal per port, Multifast side exit connector	2 A/signal 9 A total 12-pin Multifast connector 9 conductors. Mates with CKCM 12-9-*	Function +V - V Ground	Pin / Color 11 / BN 10 / BU 12 / GN/ YE	Function Port 1 Port 2 Port 3 Port 4 Port 5 Port 6	Pin / Color 1 / WH 2 / GN 3 / YE 4 / GY 5 / PK 6 / RD	6MB12Z-4-CS12H	6MB12Z-4P2-CS12H	6MB12Z-4N2-CS12H

* Cable length in meters.

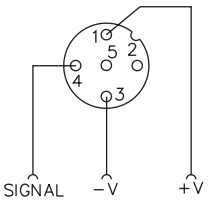
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(No LED Version)
1 Signal per Port



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

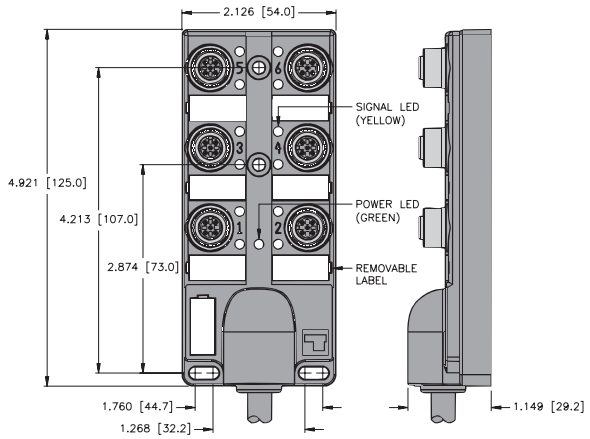
Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

Specifications

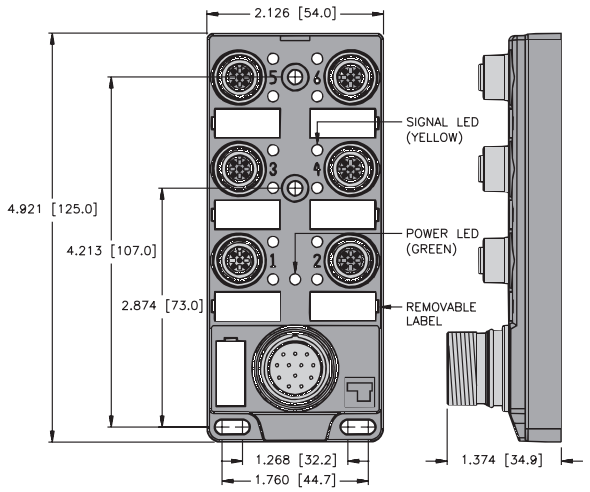
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (7 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

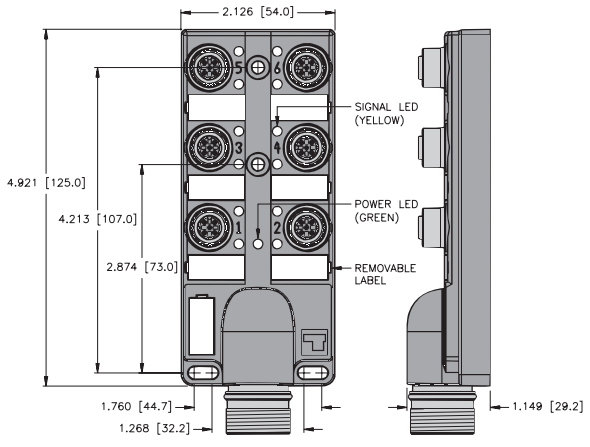
6-Port with Integral Home Run Cable



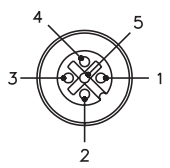
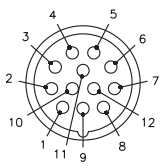
6-Port Quick Disconnect



6-Port Side Connector



Pinout

5-Pin Eurofast	12-Pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

- **Dual Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

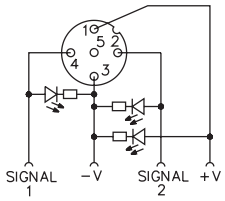
6-Port, 2 Signals per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
6-port J-box 2 signals per port Integral cable	2 A/signal 9 A total Yellow PVC cable 3/18 AWG, 12/22 AWG foil shield and 22 AWG drain	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2 Port 2, Sig 1 Port 2, Sig 2	Color BN BU GN / YE WH GY / PK GN RD / BU	Function Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2 Port 5, Sig 1 Port 5, Sig 2 Port 6, Sig 1 Port 6, Sig 2	Color YE WH / GN GY BN / GN PK WH/YE RD YE/BN	6MB12Z-5-*	6MB12Z-5P3-*	6MB12Z-5N3-*
6-port J-box 2 signals per port Multifast® connector	2 A/signal 9 A total 19-pin Multifast connector 15 conductors. Mates with CKM 19-15-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2 Port 2, Sig 1 Port 2, Sig 2	Pin / Color 19 / BN 6 / BU 12 / GN / YE 15 / WH 7 / GY / PK 5 / GN 4 / RD / BU	Function Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2 Port 5, Sig 1 Port 5, Sig 2 Port 6, Sig 1 Port 6, Sig 2	Pin / Color 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN 17 / PK 9 / WH/YE 2 / RD 13 / YE/BN	6MB12Z-5-CS19	6MB12Z-5P3-CS19	6MB12Z-5N3-CS19
6-port J-box 2 signals per port Multifast, side exit connector	2 A/signal 9 A total 19-pin Multifast connector 15 conductors. Mates with CKM 19-15-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2 Port 2, Sig 1 Port 2, Sig 2	Pin / Color 19 / BN 6 / BU 12 / GN / YE 15 / WH 7 / GY / PK 5 / GN 4 / RD/BU	Function Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2 Port 5, Sig 1 Port 5, Sig 2 Port 6, Sig 1 Port 6, Sig 2	Pin / Color 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN 17 / PK 9 / WH/YE 2 / RD 13 / YE/BN	6MB12Z-5-CS19H	6MB12Z-5P3-CS19H	6MB12Z-5N3-CS19H

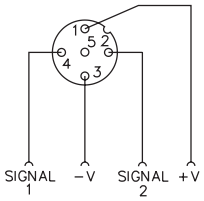
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals per Port



(No LED Version)
2 Signals per Port



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

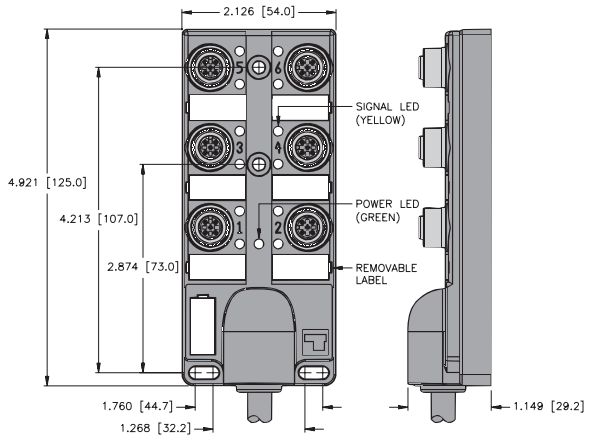
Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

Specifications

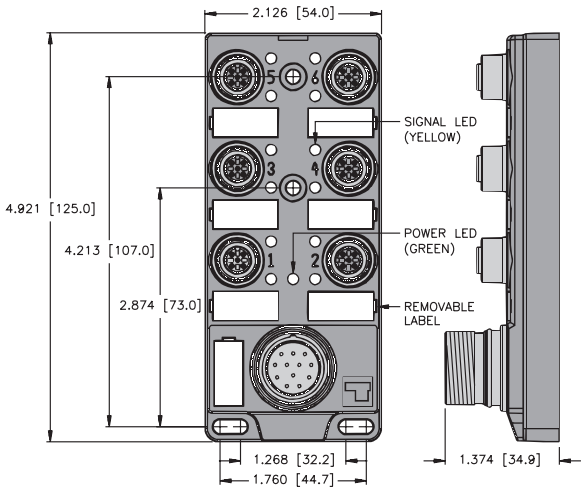
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (7 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

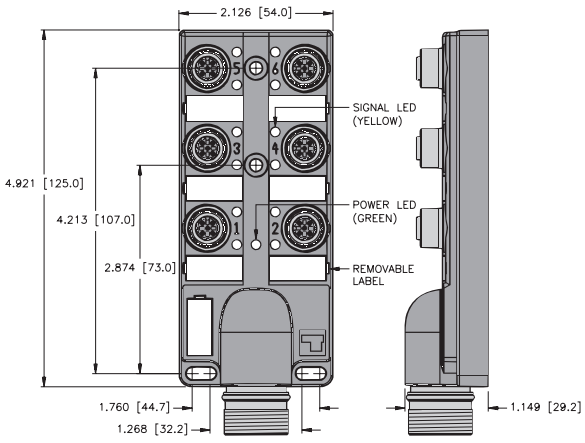
6-Port with Integral Home Run Cable



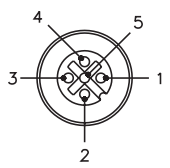
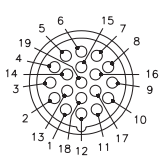
6-Port Quick Disconnect



6-Port Side Connector



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

- **Single Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

8-Port, 1 Signal per Port, 10-30 VDC

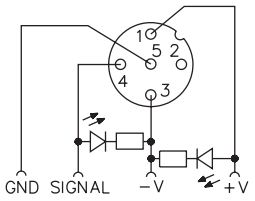
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Integral cable	2 A/signal, 9 A total Yellow PVC cable 11/18 AWG, foil shield and 20 AWG drain with PUR cable, add /S90	Function / Color +V / BN - V / BU Ground / GN / YE Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY Port 5 / PK Port 6 / RD Port 7 / BK Port 8 / VT	8MB12Z-4-*	8MB12Z-4P2-*	8MB12Z-4N2-*
8-port J-box 1 signal per port Multifast® connector	2 A/signal, 9 A total 12-pin Multifast connector 11 conductors. Mates with CKCM 12-11-*	Function / Pin / Color +V / 11 / BN - V / 10 / BU Ground / 12 / GN / YE Port 1 / 1 / WH Port 2 / 2 / GN Port 3 / 3 / YE Port 4 / 4 / GY Port 5 / 5 / PK Port 6 / 6 / RD Port 7 / 7 / BK Port 8 / 8 / VT	8MB12Z-4-CS12	8MB12Z-4P2-CS12	8MB12Z-4N2-CS12
8-port J-box 1 signal per port Multifast, side exit connector	2 A/signal, 9 A total 12-pin Multifast connector 11 conductors. Mates with CKCM 12-11-*	Function / Pin / Color +V / 11 / BN - V / 10 / BU Ground / 12 / GN / YE Port 1 / 1 / WH Port 2 / 2 / GN Port 3 / 3 / YE Port 4 / 4 / GY Port 5 / 5 / PK Port 6 / 6 / RD Port 7 / 7 / BK Port 8 / 8 / VT	8MB12Z-4-CS12H	8MB12Z-4P2-CS12H	8MB12Z-4N2-CS12H

* Cable length in meters.

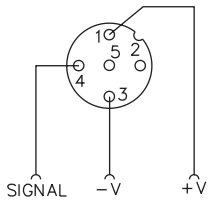
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(No LED Version)
1 Signal per Port



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

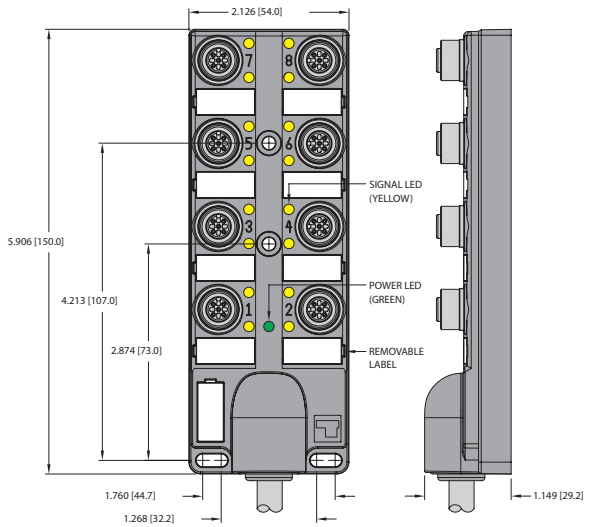
Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

Specifications

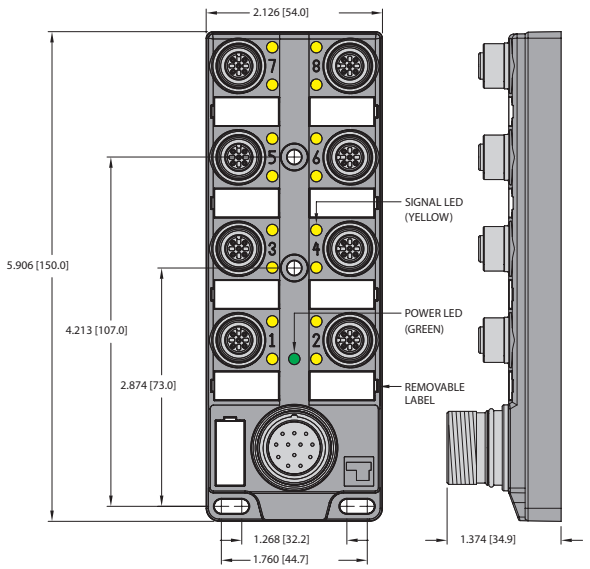
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

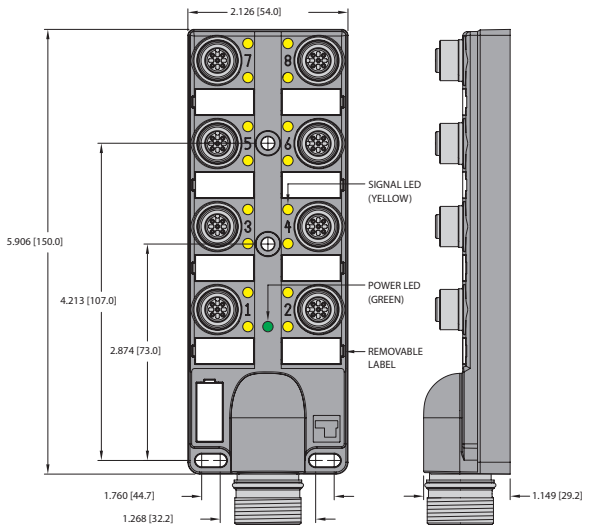
8-Port with Integral Home Run Cable



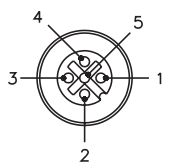
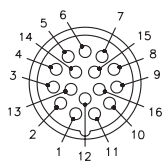
8-Port Quick Disconnect



8-Port with Side Connector



Pinout

5-Pin Eurofast	12-pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

- **Single Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **Minifast® Quick Disconnect or Integral Home Run Cable with Minifast Connector**
- **Threaded M12 Connection**

8-Port, 1 Signal per Port, 10-30 VDC

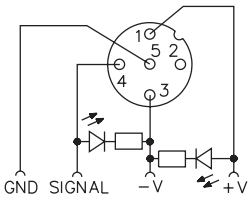
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 11 conductors. Mates with RKM 126-*M	Function +V - V Ground Port 1 Port 2 Port 3	Pin / Color 10 / RD 11 / WH 9 / GN 1 / OG 2 / BU 3 / WH/BK	Function Port 4 Port 5 Port 6 Port 7 Port 8	Pin / Color 4 / RD/BK 5 / GN/BK 6 / OG/BK 7 / BU/BK 8 / BK/WH	8MB12Z-4-*-RSM120	8MB12Z-4P2-*-RSM120	8MB12Z-4N2-*-RSM120
8-port J-box 1 signal per port Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 11 conductors. Mates with RKM 126-*M	Function +V - V Ground Port 1 Port 2 Port 3	Pin / Color 10 / RD 11 / WH 9 / GN 1 / OG 2 / BU 3 / WH/BK	Function Port 4 Port 5 Port 6 Port 7 Port 8	Pin / Color 4 / RD/BK 5 / GN/BK 6 / OG/BK 7 / BU/BK 8 / BK/WH	8MB12Z-4-RSF120	8MB12Z-4P2-RSF120	8MB12Z-4N2-RSF120

* Cable length in meters.

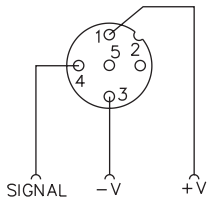
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(No LED Version)
1 Signal per Port



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

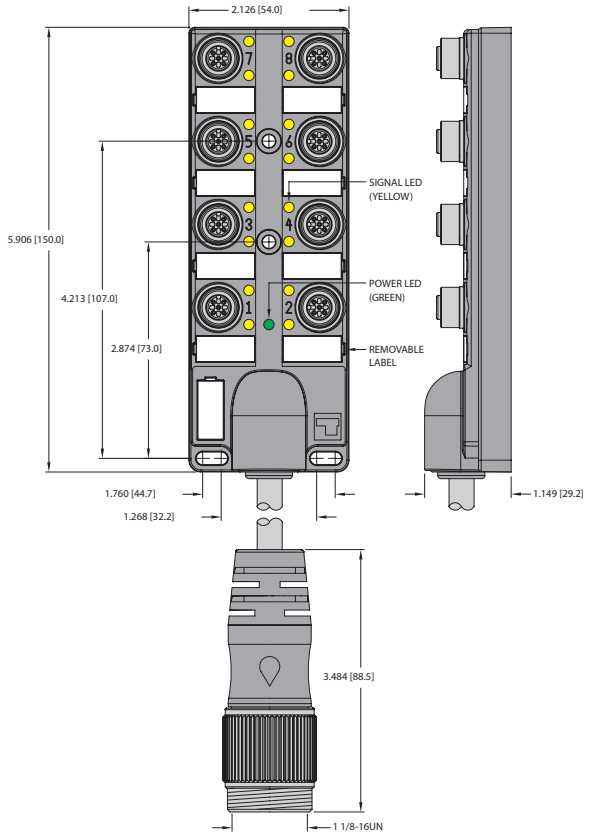
Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

Specifications

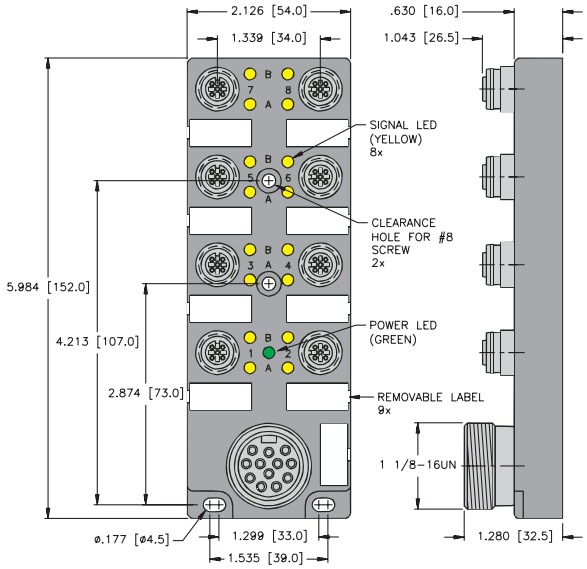
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

8-Port Integral Home Run with Minifast® Connector

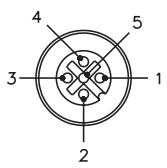
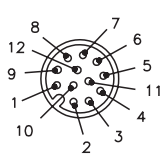


8-Port Minifast Quick Disconnect



We reserve the right to make technical alterations without prior notice.

Pinout

5-Pin Eurofast	12-pin Minifast
Female	Male
	

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

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes 8-Port

- **Dual Input/Output per Port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

8-Port, 2 Signals per Port, 10-30 VDC

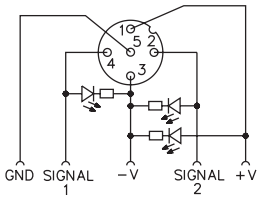
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
8-port J-box 2 signals per port Integral cable	2 A/signal 9 A total Yellow PVC cable 3x18 AWG, 16x22 AWG, foil shield and 20 AWG drain	Function / Color: +V BN; - V BU; Ground GN / YE; Port 1, Sig 1 WH; Port 1, Sig 2 GY / PK; Port 2, Sig 1 GN; Port 2, Sig 2 RD / BU; Port 3, Sig 1 YE; Port 3, Sig 2 WH / GN; Port 4, Sig 1 GY; Port 4, Sig 2 BN / GN; Port 5, Sig 1 PK; Port 5, Sig 2 WH / YE; Port 6, Sig 1 RD; Port 6, Sig 2 YE / BN; Port 7, Sig 1 BK; Port 7, Sig 2 WH / GY; Port 8, Sig 1 VT; Port 8, Sig 2 GY / BN	8MB12Z-5-*	8MB12Z-5P3-*	8MB12Z-5N3-*
8-port J-box 2 signals per port Multifast® connector	2 A/signal 9 A total 19-pin Multifast connector 19 conductors. Mates with CKM 19-19-*	Function / Color: +V 19 / BN; - V 6 / BU; Ground 12 / GN / YE; Port 1, Sig 1 15 / WH; Port 1, Sig 2 7 / GY / PK; Port 2, Sig 1 5 / GN; Port 2, Sig 2 4 / RD / BU; Port 3, Sig 1 16 / YE; Port 3, Sig 2 8 / WH / GN; Port 4, Sig 1 3 / GY; Port 4, Sig 2 14 / BN / GN; Port 5, Sig 1 17 / PK; Port 5, Sig 2 9 / WH / YE; Port 6, Sig 1 2 / RD; Port 6, Sig 2 13 / YE / BN; Port 7, Sig 1 11 / BK; Port 7, Sig 2 10 / WH / GY; Port 8, Sig 1 1 / VT; Port 8, Sig 2 18 / GY / BN	8MB12Z-5-CS19	8MB12Z-5P3-CS19	8MB12Z-5N3-CS19
8-port J-box 2 signals per port Multifast, side exit connector	2 A/signal 9 A total 19-pin Multifast connector 19 conductors. Mates with CKM 19-19-*	Function / Color: +V 19 / BN; - V 6 / BU; Ground 12 / GN / YE; Port 1, Sig 1 15 / WH; Port 1, Sig 2 7 / GY / PK; Port 2, Sig 1 5 / GN; Port 2, Sig 2 4 / RD / BU; Port 3, Sig 1 16 / YE; Port 3, Sig 2 8 / WH / GN; Port 4, Sig 1 3 / GY; Port 4, Sig 2 14 / BN / GN; Port 5, Sig 1 17 / PK; Port 5, Sig 2 9 / WH / YE; Port 6, Sig 1 2 / RD; Port 6, Sig 2 13 / YE / BN; Port 7, Sig 1 11 / BK; Port 7, Sig 2 10 / WH / GY; Port 8, Sig 1 1 / VT; Port 8, Sig 2 18 / GY / BN	8MB12Z-5-CS19H	8MB12Z-5P3-CS19H	8MB12Z-5N3-CS19H

* Cable length in meters.

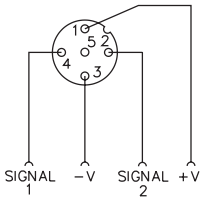
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals per Port



(No LED Version)
2 Signals per Port



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

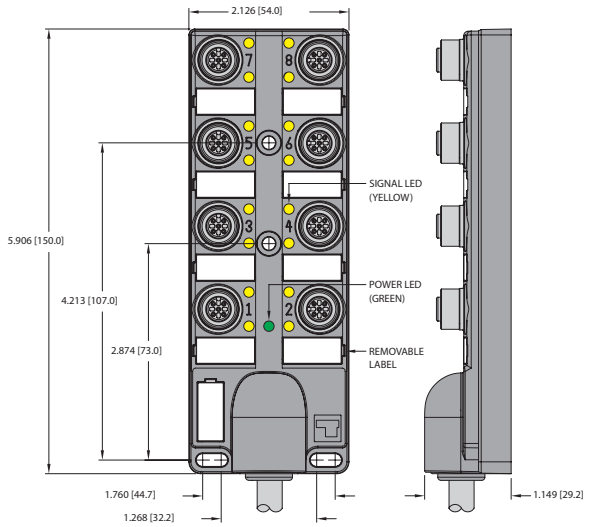
Multibox® Eurofast® Low Profile Junction Boxes 8-Port

Specifications

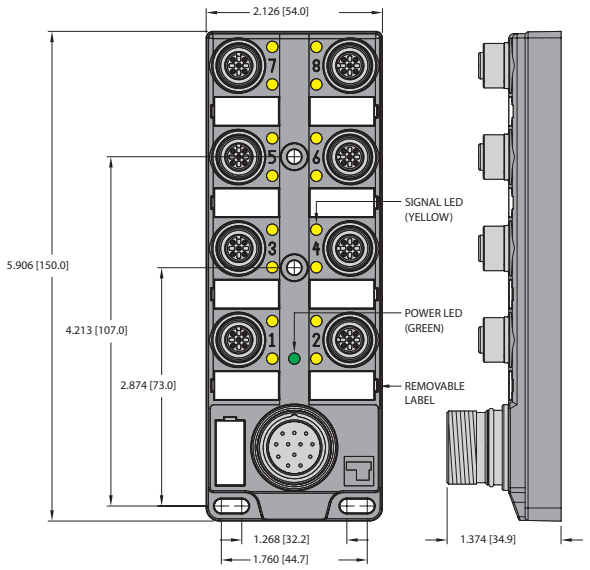
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP68, IP69K
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2FKM 4.5		

Dimensions

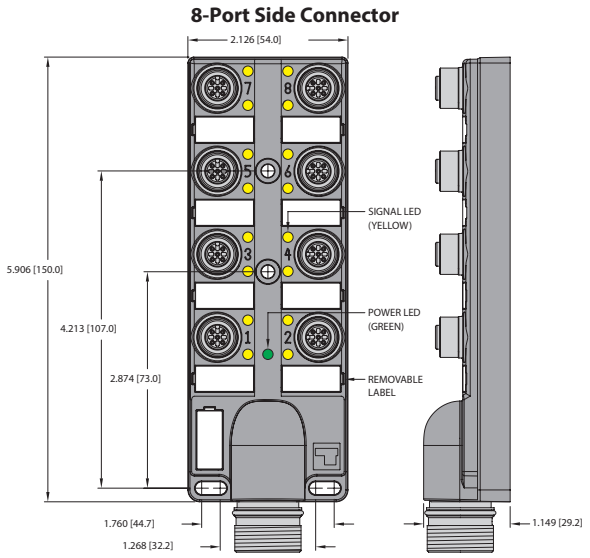
8-Port with Integral Home Run Cable



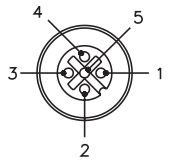
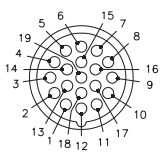
8-Port Quick Disconnect



8-Port Side Connector



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast®, Junction Boxes, 4-Port Stainless Steel Connector Options

- 1 or 2 Signals per Port
- Rugged Plastic Housing with Flush Connectors
- Available with LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Available with Stainless Steel Threaded Connections

4-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Part Number
4-port J-box 1 signal per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 7x18 AWG foil shield and 20 AWG drain **with PUR cable, add /S90	Function +V - V Ground	Color BN BU GN / YE	Function Port 1 Port 2 Port 3 Port 4	Color WH GN YE GY	4MBV12-4P2-*
4-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 7 conductors. Mates with CKCMV12-7-*	Function +V - V Ground	Pin / Color 11 / BN 10 / BU 12 / GN / YE	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 1 / WH 2 / GN 3 / YE 4 / GY	4MBV12-4P2-CSV12

4-Port, 2 Signal per Port, 10-48 VDC

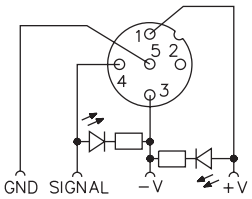
Application	Specifications	Pinout				Part Number
4-port J-box 2 signals per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 8x22 AWG foil shield and 20 AWG drain **with PUR cable, add /S90	Function +V - V Ground port 1, Sig 1 port 1, Sig 2	Color BN BU GN/YE WH GY / PK	Function port 2, Sig 1 port 2, Sig 2 port 3, Sig 1 port 3, Sig 2 port 4, Sig 1 port 4, Sig 2	Color GN RD / BU YE WH / GN GY BN / GN	4MBV12-5P3-*
4-port J-box 2 signals per port Multifast connector	4 A/port, 8 A total 19-pin Multifast connector 11 conductors. Mates with CKMV 19-11-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2	Pin / Color 19 / BN 6 / BU 12 / GN/YE 15 / WH 7 / GY/PK	Function Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2 Port 4, Sig 1 Port 4, Sig 2	Pin / Color 5 / GN 4 / RD / BU 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN	4MBV12-5P3-CSV19

* Cable length in meters.

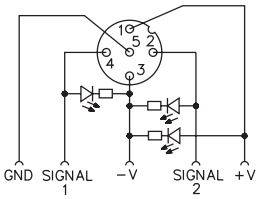
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(PNP LED Version)
2 Signals per Port



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

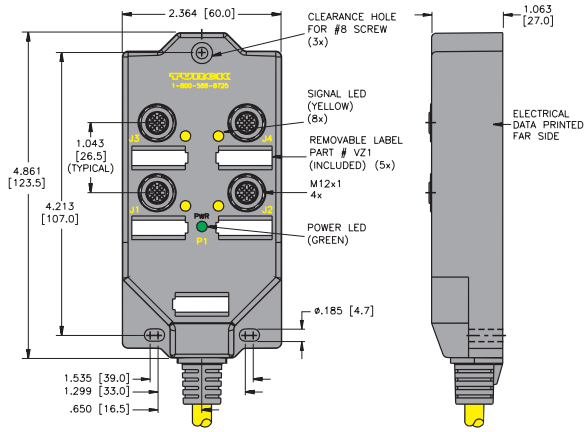
Multibox® Eurofast®, Junction Boxes, 4-Port Stainless Steel Connector Options

Specifications

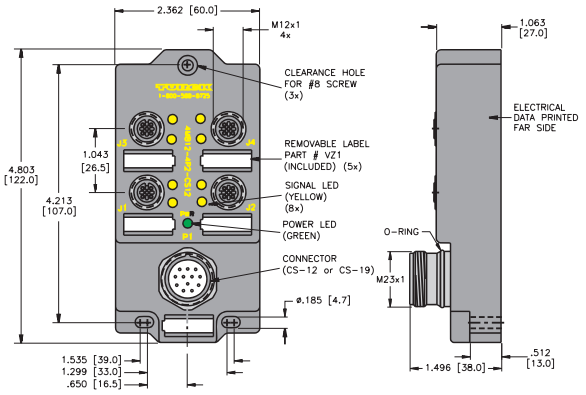
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Thread Inserts:	Stainless steel	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

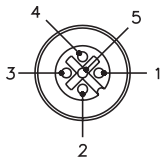
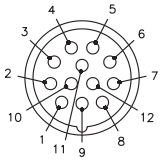
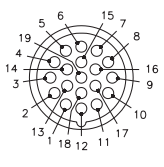
4-Port with Integral Cable



4-Port Quick Disconnect



Pinout

5-Pin Eurofast	12-Pin Multifast®	19-Pin Multifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® 8-Port Junction Boxes, Stainless Steel Connector Options

- 1 or 2 Signals per Port
- Rugged Plastic Housing with Flush Connectors
- Available with LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Available with Stainless Steel Threaded Connections

8-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Part Number
8-port J-box 1 signal per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 11x18 AWG, foil shield and 20 AWG drain **with PUR cable, add /S90	Function +V - V Ground Port 1 Port 2 Port 3	Color BN BU GN / YE WH GN YE	Function Port 4 Port 5 Port 6 Port 7 Port 8	Color GY PK RD BK VT	8MBV12-4P2-*
8-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 11 conductors. Mates with CKCMV 12-11-*	Function +V - V Ground Port 1 Port 2 Port 3	Pin / Color 11 / BN 10 / BU 12 / GN / YE 1 / WH 2 / GN 3 / YE	Function Port 4 Port 5 Port 6 Port 7 Port 8	Pin / Color 4 / GY 5 / PK 6 / RD 7 / BK 8 / VT	8MBV12-4P2-CSV12

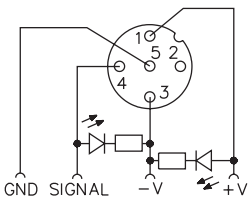
8-Port, 2 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Part Number
8-port J-box 2 signals per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 16x22 AWG, foil shield and 20 AWG drain **with PUR cable, add /S90	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2 Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2	Color BN BU GN / YE WH GY / PK GN RD / BU YE WH / GN	Function Port 4, Sig 1 Port 4, Sig 2 Port 5, Sig 1 Port 5, Sig 2 Port 6, Sig 1 Port 6, Sig 2 Port 7, Sig 1 Port 7, Sig 2 Port 8, Sig 1 Port 8, Sig 2	Color GY BN / GN PK WH / YE RD YE / BN BN WH / GY VT GY / BN	8MBV12-5P3-*
8-port J-box 2 signals per port Multifast connector	4 A/port, 8 A total 19-pin Multifast connector 19 conductors. Mates with CKMV 19-19-*	Function +V - V Ground Port 1, Sig 1 Port 1, Sig 2 Port 2, Sig 1 Port 2, Sig 2 Port 3, Sig 1 Port 3, Sig 2	Pin / Color 19 / BN 6 / BU 12 / GN/YE 15 / WH 7 / GY/PK 5 / GN 4 / RD/BU 16 / YE 8 / WH/GN	Function Port 4, Sig 1 Port 4, Sig 2 Port 5, Sig 1 Port 5, Sig 2 Port 6, Sig 1 Port 6, Sig 2 Port 7, Sig 1 Port 7, Sig 2 Port 8, Sig 1 Port 8, Sig 2	Pin / Color 3 / GY 14 / BN / GN 17 / PK 9 / WH / YE 2 / RD 13 / YE / BN 11 / BK 10 / WH/ GY 1 / VT 18 / GY / BN	8MBV12-5P3-CSV19

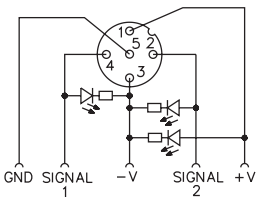
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(PNP LED Version)
2 Signals per Port



We reserve the right to make technical alterations without prior notice.

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

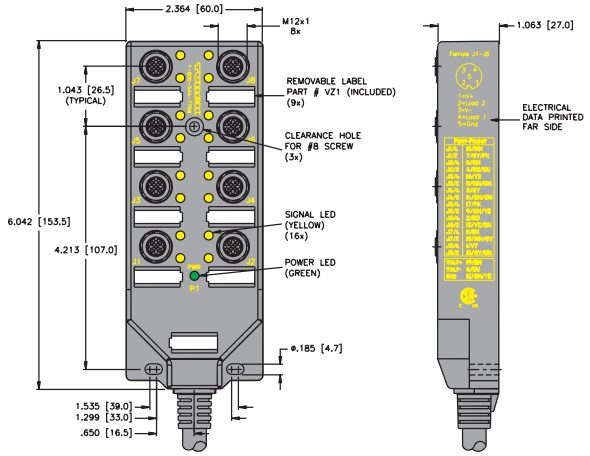
Multibox® Eurofast® 8-Port Junction Boxes, Stainless Steel Connector Options

Specifications

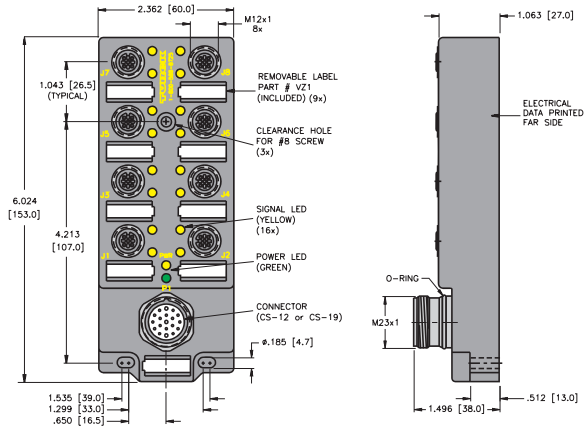
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Thread Inserts:	Stainless steel	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

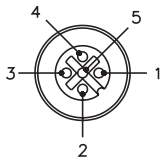
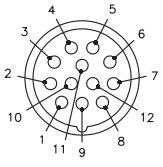
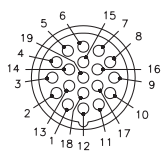
8-Port Integral Cable



8-Port Quick Disconnect



Pinout

5-Pin Eurofast	12-Pin Multifast®	19-Pin Multifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, Back Exit Home Run

- 8-Port Plastic Housing
- 9 Amps Total
- Back Exit Home Run Cable or Leads
- Nickel Plated Brass or Stainless Steel Connectors

8-Port, 10-48 VDC, 2 Signals per Port, Back Exit Home Run Leads

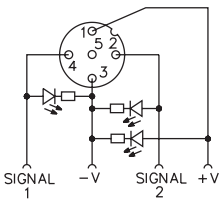
Application	Specifications	Pinout	Part Number - Nickel Plated	Part Number - Stainless Steel
8-port J-box 2 signals per port Back exit leads	4 A/port, 9 A total 5-pin Eurofast connector, 1 (green) power LED 2 (yellow) signal per port LEDs, 3x18 AWG, 16x22 AWG	Function / Color +V / 19 / BN -V / 6 / BU Ground / 12 / GN / YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / GY / PK Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / RD / BU Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH / GN Port 4, Sig 1 / 3 / GY Port 4, Sig 2 / 14 / BN / GN Port 5, Sig 1 / 17 / PK Port 5, Sig 2 / 9 / WH / YE Port 6, Sig 1 / 2 / RD Port 6, Sig 2 / 13 / YE / BN Port 7, Sig 1 / 11 / BK Port 7, Sig 2 / 10 / WH / GY Port 8, Sig 1 / 1 / VT Port 8, Sig 2 / 18 / GY / BN	8MB12-5P3-*BL	8MBV12-5P3-*BL

8-Port, 10-48 VDC, 2 Signals per Port, Back Exit Home Run Cable

Application	Specifications	Pinout	Part Number - Nickel Plated	Part Number - Stainless Steel
8-port J-box 2 signals per port Back exit cable	4 A/port, 9 A total 5-pin Eurofast connector, 1 (green) power LED 2 (yellow) signal per port LEDs, 3x18 AWG, 16x22 AWG, PVC Yellow Cable	Function / Color +V / 19 / BN -V / 6 / BU Ground / 12 / GN / YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / GY / PK Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / RD / BU Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH / GN Port 4, Sig 1 / 3 / GY Port 4, Sig 2 / 14 / BN / GN Port 5, Sig 1 / 17 / PK Port 5, Sig 2 / 9 / WH / YE Port 6, Sig 1 / 2 / RD Port 6, Sig 2 / 13 / YE / BN Port 7, Sig 1 / 11 / BK Port 7, Sig 2 / 10 / WH / GY Port 8, Sig 1 / 1 / VT Port 8, Sig 2 / 18 / GY / BN	8MB12-5P3-*B	8MBV12-5P3-*B

* Cable length in meters.

(PNP LED Version)
2 Signals per Port



We reserve the right to make technical alterations without prior notice.

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

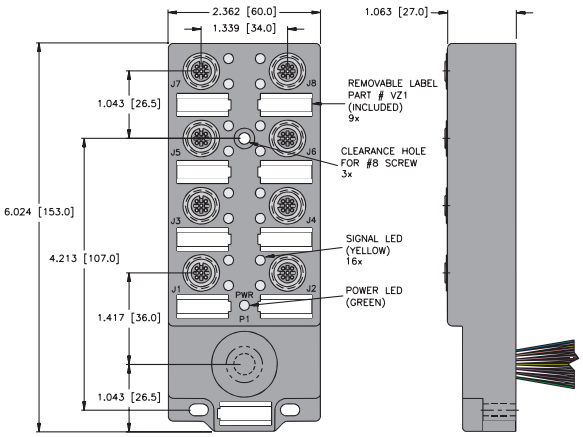
Multibox® Eurofast® Junction Boxes, Back Exit Home Run

Specifications

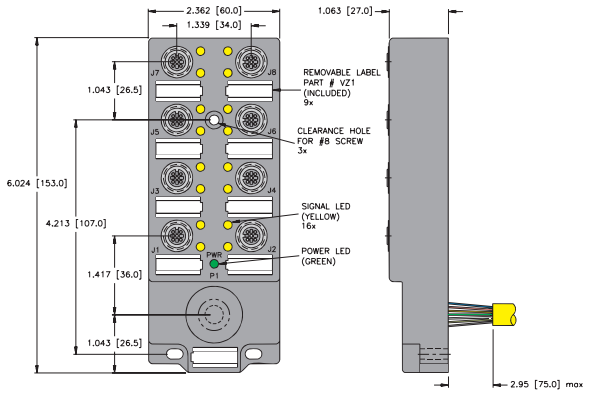
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °C to +176 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IP67
Contacts:	Gold plated brass	**Accessories:**	Includes (2) VZ 3 closure caps
Thread Inserts:	Nickel plated brass	**Recommended Splitter:**	YB2-FSM 4.5-2 FKM 4.5
Cable:	See table		
Recommended Gasket:	Gasket, 8MB12, Neoprene (A9446)		

Dimensions

8MB12-5P3-*BL



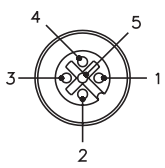
8MB12-5P3-*B



Pinout

5-Pin Eurofast

Female



We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, NAMUR, 1 Circuit per Port

- 4 Ports
- Rugged Plastic Housing with Flush Connectors
- M12 or M23 Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors

1 circuit per Port, common positive, 100 VDC

Application	Specifications	Pinout	Part Number
1 circuit per port, common positive, 100 VDC	4 A/port, 9 A total Blue PVC cable, PLTC 5x22 AWG	Function / Color +V / GN Function / Color J1/Pin 2 / WH J2/Pin 2 / OG J3/Pin 2 / BK J4/Pin 2 / RD	VB 40N-*
4-port J-box 1 circuit per port Eurofast connector	4 A/port, 4 A total 5-pin Eurofast connector 5 conductors. Mates with RKCN 5T-*	Function / Pin / Color +V / 1 / GN Function / Pin / Color J1/Pin 2 / 2 / WH J2/Pin 2 / 3 / OG J3/Pin 2 / 4 / BK J4/Pin 2 / 5 / RD	VB 40N-H1151

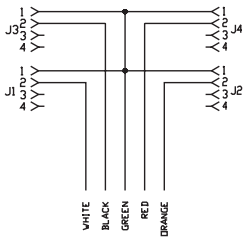
1 circuit per Port, isolated circuits, 100 VDC

Application	Specifications	Pinout	Part Number
4-port J-box 1 circuit per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9x22 AWG	Function / Pin / Color J1/Pin 1 / WH J1/Pin 2 / BK J2/Pin 1 / GN J2/Pin 2 / RD Function / Pin / Color J3/Pin 1 / OG J3/Pin 2 / BU J4/Pin 1 / YE J4/Pin 2 / VT Brown not used	VB 4X1N-*
4-port J-box 1 circuit per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKNM 12-9-*	Function / Pin / Color J1/Pin 1 / 2 / WH J1/Pin 2 / 3 / BK J2/Pin 1 / 4 / GN J2/Pin 2 / 5 / RD Function / Pin / Color J3/Pin 1 / 6 / OG J3/Pin 2 / 7 / BU J4/Pin 1 / 8 / YE J4/Pin 2 / 9 / VT Pin 1/BN not used	VB 4X1N-CS12

We reserve the right to make technical alterations without prior notice.

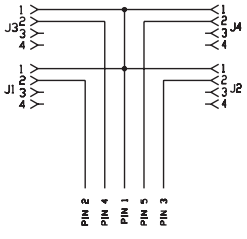
Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



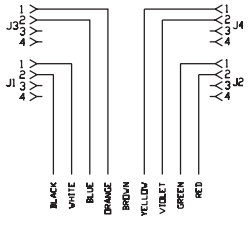
VB 40N-*

Common Positive
Eurofast Connector



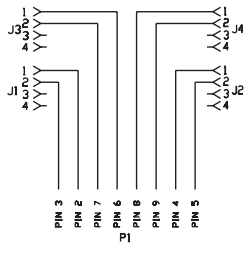
VB 40N-H1151

Isolated Circuit
Integral Cable



VB 4X1N-*

Isolated Circuit
Multifast Connector



VB 4X1N-CS12

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

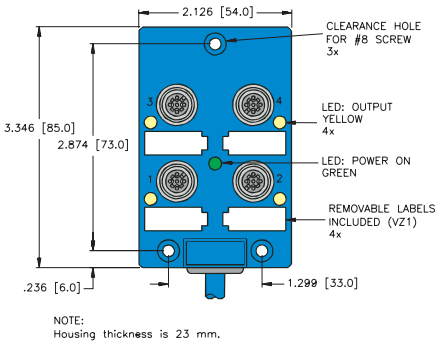
Multibox® Eurofast® Junction Boxes, NAMUR, 1 Circuit per Port

Specifications

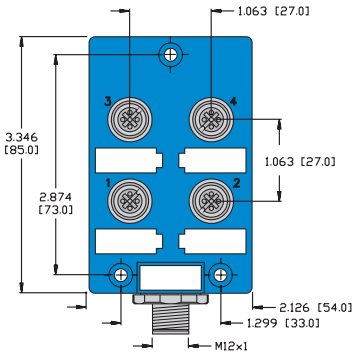
Housing:	Nylon	**Temperature:**	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass, machined from solid stock	**Accessories:**	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters
Cable:	See table		

Dimensions

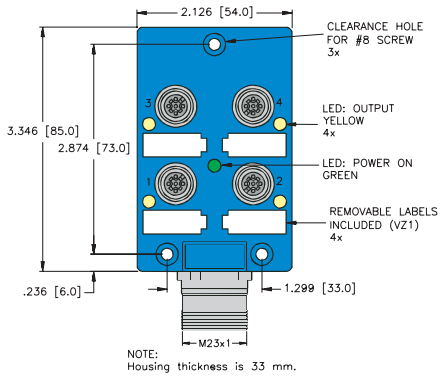
4-Port with Integral Home Run Cable



4-Port with Eurofast Home Run Connector



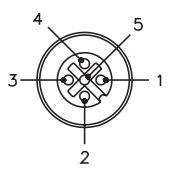
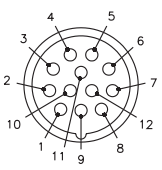
4-Port with Multifast Home Run Connector



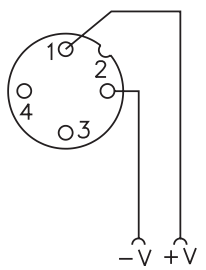
We reserve the right to make technical alterations without prior notice.

Notes
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23 mm thickness. Housings with quick disconnect: 33 mm thickness.

Pinout

5-Pin Eurofast	12-Pin Multifast
Female	Male
	

Female Pinout Diagram



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

Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, NAMUR, 2 Circuits per Port

- 4 Ports
- Rugged Plastic Housing with Flush Connectors
- M12 or M23 Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors

2 Circuits per Port, Common Positive, 100 VDC

Application	Specifications	Pinout	Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9x22 AWG	Function / Color / Function / Color V+ / BN / J3/Pin 2 / OG J1/Pin 2 / WH / J3/Pin 4 / BU J1/Pin 4 / BK / J4/Pin 2 / YE J2/Pin 2 / GN / J4/Pin 4 / VT J2/Pin 4 / RD	VB 40.5N-*
4-port J-box 2 circuits per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKNM 12-9-*	Function / Pin / Color / Function / Pin / Color V+ / 1 / BN / J3/Pin 2 / 6 / OG J1/Pin 2 / 2 / WH / J3/Pin 4 / 7 / BU J1/Pin 4 / 3 / BK / J4/Pin 2 / 8 / YE J2/Pin 2 / 4 / GN / J4/Pin 4 / 9 / VT J2/Pin 4 / 5 / RD	VB 40.5N-CS12

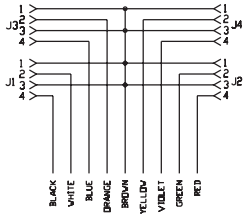
2 Circuits per Port, Isolated Circuits, 100 VDC

Application	Specifications	Pinout	Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 16x22 AWG	Function / Color / Function / Color J1/Pin 1 / WH / J3/Pin 1 / VT J1/Pin 2 / BK / J3/Pin 2 / GY J1/Pin 3 / GN / J3/Pin 3 / PK J1/Pin 4 / RD / J3/Pin 4 / TN J2/Pin 1 / OG / J4/Pin 1 / WH / BK J2/Pin 2 / BU / J4/Pin 2 / WH / GN J2/Pin 3 / BN / J4/Pin 3 / WH / RD J2/Pin 4 / YE / J4/Pin 4 / WH / BU	VB 4X1.5N-*
4-port J-box 2 circuits per port Multifast cable	4 A/port, 8 A total 16-pin Multifast connector 16 conductors. Mates with CKNWM 16-16-*	Function / Color / Function / Color J1/Pin 1 / 1/WH / J3/Pin 1 / 9/VT J1/Pin 2 / 2/BK / J3/Pin 2 / 10/GY J1/Pin 3 / 3/GN / J3/Pin 3 / 11/PK J1/Pin 4 / 4/RD / J3/Pin 4 / 12/TN J2/Pin 1 / 5/OG / J4/Pin 1 / 13 / WH / BK J2/Pin 2 / 6/BU / J4/Pin 2 / 14 / WH / GN J2/Pin 3 / 7/BN / J4/Pin 3 / 15 / WH / RD J2/Pin 4 / 8/YE / J4/Pin 4 / 16 / WH / BU	VB 4X1.5N-CS16

We reserve the right to make technical alterations without prior notice.

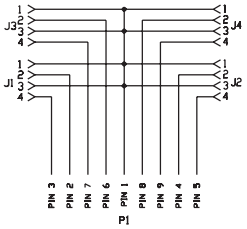
Functional Wiring Diagrams

Common Positive Integral Cable



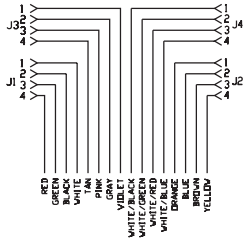
VB 40.5N-*

Common Positive Multifast Connector



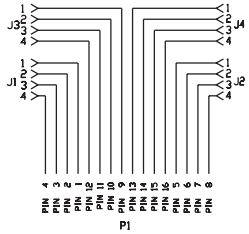
VB 40.5N-CS12

Isolated Circuit Integral Cable



VB 4X1.5N-*

Isolated Circuit Multifast Connector



VB 4X1.5N-CS16

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

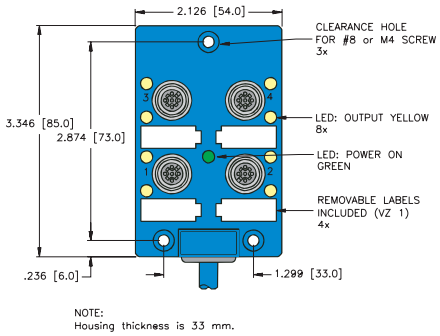
Multibox® Eurofast® Junction Boxes, NAMUR, 2 Circuits per Port

Specifications

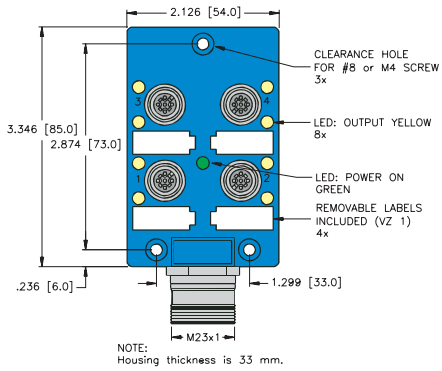
Housing:	Nylon	**Temperature:**	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass, machined from solid stock	**Accessories:**	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters
Cable:	See table		

Dimensions

4-Port with Integral Home Run Cable

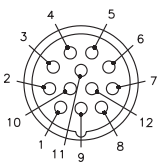
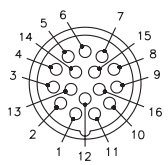


4-Port with Multifast Home Run Connector

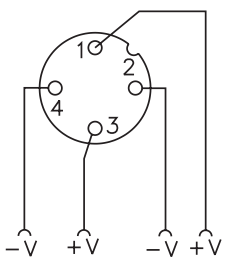


Notes
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23 mm thickness. Housings with quick disconnect: 33 mm thickness.

Pinout

12-Pin Multifast	16-Pin Multifast
Male	Male
	

Female Pinout Diagram



We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

- 4-Port, Plastic or Metal Housing
- Up to 16 A total
- Power Supply Isolation option
- Plug-in Terminal Cover with Spring Clamps or Screw Terminal

4-Port, 10-30 VDC, 2 Signals per Port, Isolated Power Supply Optional, Plastic Housing

Termination Style

Application	Specifications	Pinout		Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Jumper option for isolation between odd and even ports Terminal chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total or 8 A per supply 5-pin Eurofast connector 2(green) power LED 2(yellow) signal per port LEDs cable diameter 5-12 mm	Function Port 1/Signal 1 2/1 3/1 4/1 Port 1/Signal 2 2/2 3/2 4/2 +V -V +V -V Ground	Terminal Pin 1 2 3 4 9 10 11 12 17 18 19 20 PE	4MB12-5P4-K-FK	4MB12-5P4-K-SK

4-Port, 10-30 VDC, 2 Signals per Port, Shielded Metal Housing

Termination Style

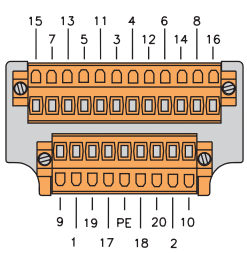
Application	Specifications	Pinout		Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Termination chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total 5-pin Eurofast connector 1(green) power LED cable diameter 9-14 mm	Function Port 1/Signal 1 2/1 3/1 4/1 Port 1/Signal 2 2/2 3/2 4/2 +V -V +V -V Ground	Terminal Pin 1 2 3 4 9 10 11 12 17 18 19 20 PE	----	4MB12-5P1-MS-SK

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

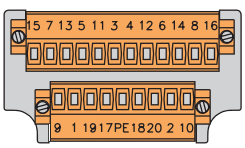
Spring Clamp

TERMINAL END VIEW

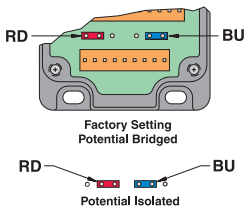


Screw Terminal

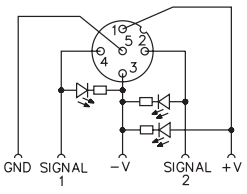
TERMINAL END VIEW



Connection Diagram



LED version
2 Signals per Port



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

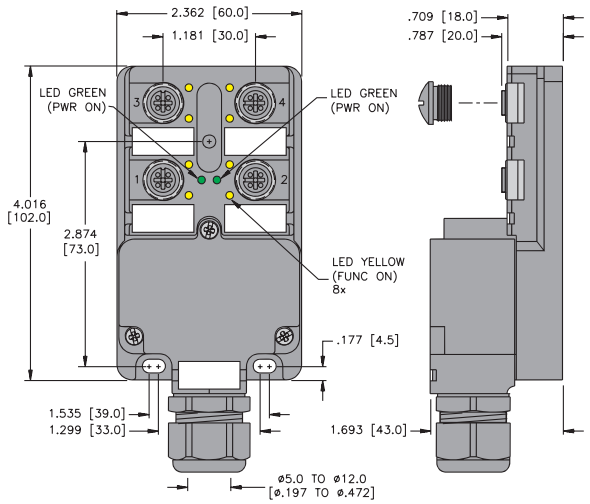
Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

Specifications

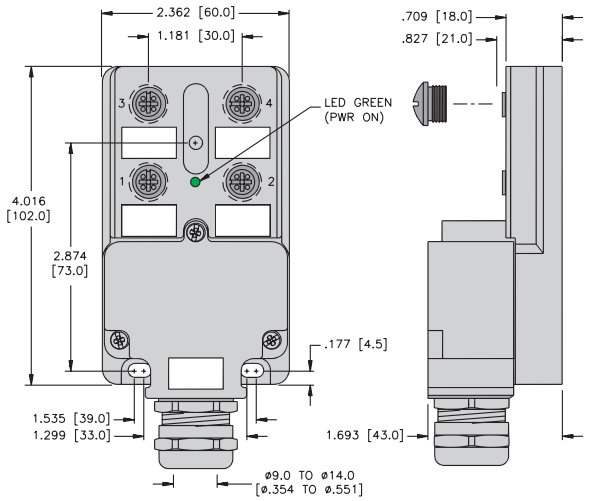
Housing:	PBT Black Plastic	**Temperature:**	-20 °C to +90 °C (-4 °F to +194 °F)
Connectors:	Eurofast: PBT/black	**Protection:**	IEC IP68
Contacts:	Gold plated brass	**Accessories:**	(2) TC-CC closure caps and labels included
Thread Inserts:	Nickel plated brass	**Termination Method:**	Field wireable, Spring Clamp or Screw Terminal. 16 AWG max.
Cable Gland & OD:	PG 13.5, accepts cable diameter 5 to 12 mm		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

4-Port, Plastic Housing



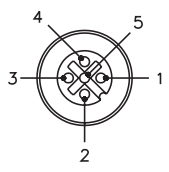
4-Port,Metal Housing



We reserve the right to make technical alterations without prior notice.

Pinout

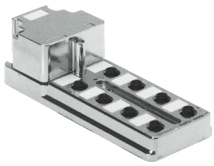
5-Pin Eurofast
Female



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

Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

- 8-Port Plastic or Metal Housing
- Up to 16 A total
- Power Supply Isolation option
- Plug-in Terminal Cover with Spring Clamps or Screw Terminal



8-Port, 10-30 VDC, 2 Signals per Port, Isolated Power Supply Optional , Plastic

Application	Specifications	Pinout				Termination Style: Spring Clamp	Termination Style: Screw Terminals
8-port J-box 2 signals per port, Jumper option for isolation between odd and even ports Terminal chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total or 8 A per supply 5-pin Eurofast connector 2 (green) power LED 2 (yellow) signal per port LEDs cable diameter 6-12 mm	Function	Terminal Pin	Function	Terminal Pin	8MB12-5P4-K-FK	8MB12-5P4-K-SK
		Port 1/Signal 1	1	4/2	12		
		2/1	2	5/2	13		
		3/1	3	6/2	14		
		4/1	4	7/2	15		
		5/1	5	8/2	16		
		6/1	6	+V	17		
		7/1	7	-V	18		
		8/1	8	+V	19		
		Port 1/Signal 2	9	-V	20		
		2/2	10	Ground	PE		
		3/2	11				

8-Port, 10-30 VDC, 2 Signals per Port, Shielded Metal

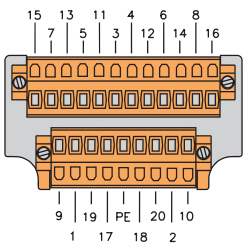
Application	Specifications	Pinout				Termination Style: Spring Clamp	Termination Style: Screw Terminals
8-port J-box 2 signals per port Termination chamber connection - spring clamp or screw terminal	2 A/signal, 10 A total 5-pin Eurofast connector 1 (green) power LED cable diameter 9-14 mm	Function	Terminal Pin	Function	Terminal Pin	8MB12-5P1-MS-FK	8MB12-5P1-MS-SK
		Port 1/Signal 1	1	4/2	12		
		2/1	2	5/2	13		
		3/1	3	6/2	14		
		4/1	4	7/2	15		
		5/1	5	8/2	16		
		6/1	6	+V	17		
		7/1	7	-V	18		
		8/1	8	+V	19		
		Port 1/Signal 2	9	-V	20		
		2/2	10	Ground	PE		
		3/2	11				

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

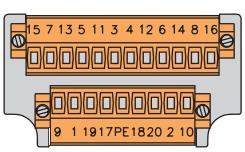
Spring Clamp

TERMINAL END VIEW

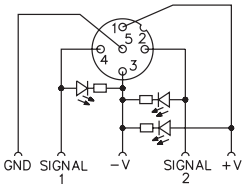


Screw Terminal

TERMINAL END VIEW



2 Signals per Port



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

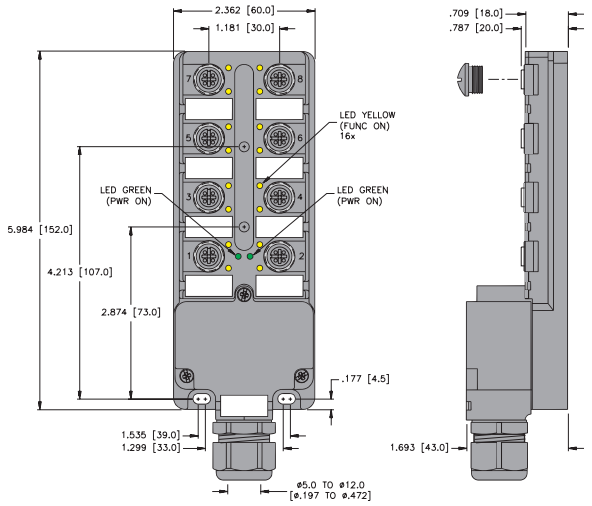
Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

Specifications

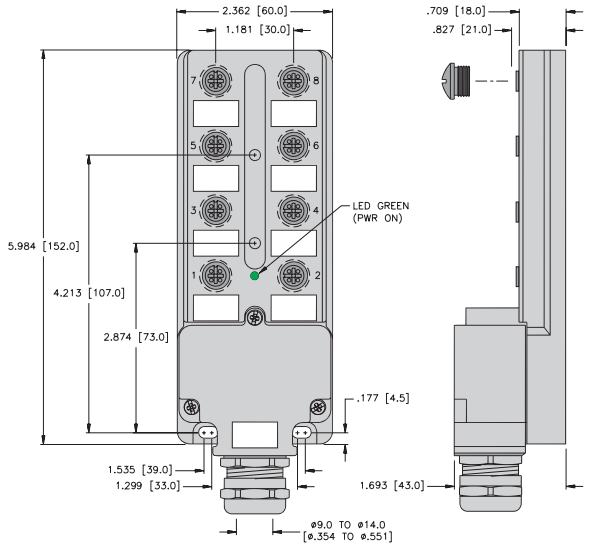
Housing:	Die Cast Zinc, Nickel plated	**Temperature:**	-20 °C to +90 °C (-4 °F to +194 °F)
Connectors:	Eurofast: PBT/black	**Protection:**	IEC IP68
Contacts:	Gold plated brass	**Accessories:**	Includes (2) TC-CC closure caps and labels
Thread Inserts:	Nickel plated brass	**Termination Method:**	Field wireable, spring clamps or screw terminals. 16 AWG max.
Cable Gland & OD:	PG 13.5, accepts cable diameter 10-14 mm		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions

8-Port, Plastic Housing



8-Port, Metal Housing



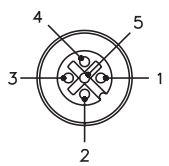
We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout

5-Pin Eurofast

Female



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

Multibox® Eurofast® Junction Boxes, 4-Port, Metal

- **Single Input/Output per Port**
- **Metal Housing with Side Connectors**
- **For DC Sensors and Actuators**
- **M23 Quick Disconnect, Minifast® Connector, or Integral Home Run Cable**
- **Available with or without LEDs**

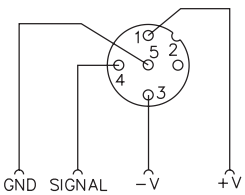
4-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
4-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 7x18 AWG foil shield and 20 AWG drain	Function +V - V Ground	Color BN BU GN / YE	Function Port 1 Port 2 Port 3 Port 4	Color WH GN YE GY	VBM 40-*	VBM 40-P7X5-*
4-port J-box 1 signal per port Metal box Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 7 conductors. Mates with CKM 12-7-*	Function +V - V Ground	Pin / Color 1 / BN 3 / BU 12 / GN / YE	Function Port 1 Port 2 Port 3 Port 4	Pin / Color 4 / WH 6 / GN 7 / YE 8 / GY	VBM 40-CS12	VBM 40-P7X5-CS12
4-port J-box 1 signal per port, Metal box Minifast connector	4 A/port, 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M CSA Certified	Function +V -V Ground Port 1 Port 2	Pin / Color 10 / RD 11 / WH 12 / BK 1 / OG 2 / BU	Function Port 3 Port 4	Pin / Color 3 /WH/BK 4 / RD/BK	VBM 40-RSF120	VBM 40-P7X5-RSF120

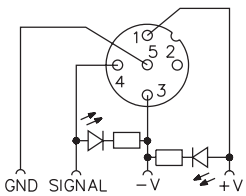
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(No LED Version)
1 Signal per Port



(PNP LED Version)
1 Signal per Port



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

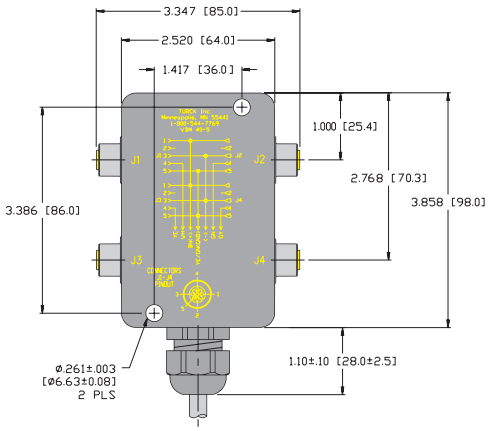
Multibox® Eurofast® Junction Boxes, 4-Port, Metal

Specifications

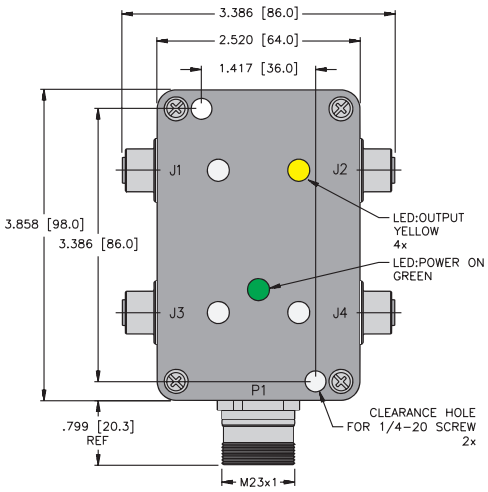
Housing:	Die-cast aluminum alloy	**Temperature:**	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory
Cable:	See table		

Dimensions

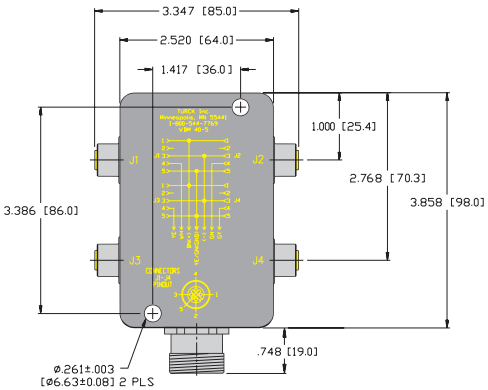
4-Port with Integral Home Run Cable



4-Port with Multifast Home Run Connector

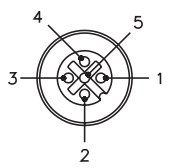
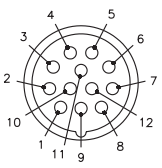
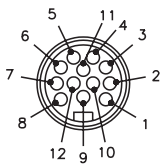


4-Port with Minifast® Home Run Connector



Notes
1. For mating CKM cordsets. See Multifast pages.
2. For mating RKM cordsets. See Minifast pages.

Pinout

5-Pin Eurofast	12-Pin Multifast	12-pin Minifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Multibox® Eurofast® Junction Boxes, 8-Port, Metal

- **Single Input/Output per Port**
- **Metal Housing with Side Connectors**
- **For DC Sensors and Actuators**
- **M23 Quick Disconnect, Minifast Connector, or Integral Home Run Cable**
- **Available with or without LEDs**

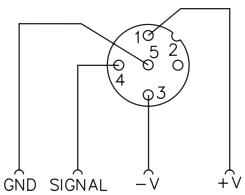
8-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
8-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 11x18 AWG, foil shield and 20 AWG drain	Function +V - V Ground Port 1 Port 2 Port 3	Color BN BU GN / YE WH GN YE	Function Port 4 Port 5 Port 6 Port 7 Port 8	Color GY PK RD BK VT	VBM 80-*	VBM 80-P7X9-*
8-port J-box 1 signal per port Metal box Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKM 12-11-*	Function +V - V Ground Port 1 Port 2 Port 3	Pin / Color 1 / BN 3 / BU 12 / GN/YE 4 / WH 5 / GN 6 / YE	Function Port 4 Port 5 Port 6 Port 7 Port 8	Pin / Color 7 / GY 8 / PK 9 / RD 10 / BK 11 / VT	VBM 80-CS12	VBM 80-P7X9-CS12
8-port J-box 1 signal per port Metal box Minifast connector	4 A/port, 7 A total 12-pin Minifast connector 9 conductors. Mates with RKM 126-* CSA Certified	Function +V -V Ground Port 1 Port 2	Pin / Color 10 / RD 11 / WH 12 / BK 1 / OG 2 / BU	Function Port 3 Port 4 Port 5 Port 6 Port 7 Port 8	Pin / Color 3 / WH/BK 4 / RD/BK 5 / GN/BK 6 / OG/BK 7 / BU/BK 8 / BK/WH	VBM 80-RSF120	VBM 80-P7X9-RSF120

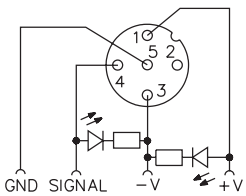
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(No LED Version)
1 Signal per Port



(PNP LED Version)
1 Signal per Port



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

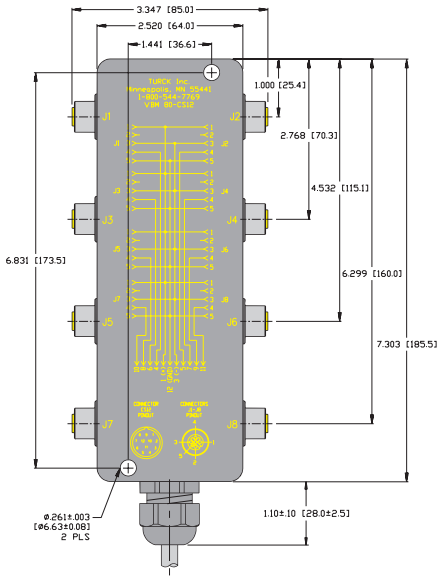
Multibox® Eurofast® Junction Boxes, 8-Port, Metal

Specifications

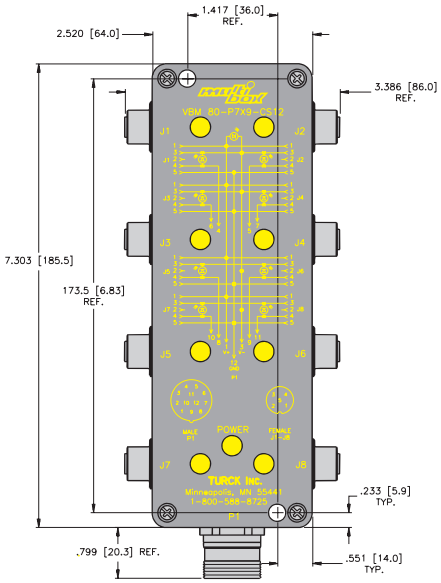
Housing:	Die-cast aluminum alloy	**Temperature:**	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	(2) VZ 3 closure caps included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory
Cable:	See table		

Dimensions

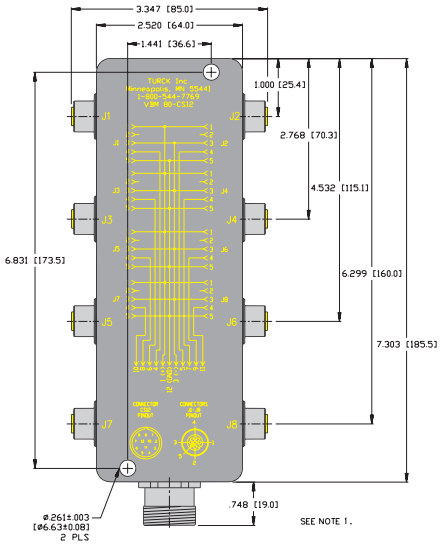
8-Port with Integral Home Run Cable



8-Port with Multifast Home Run Connector

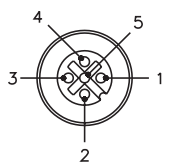
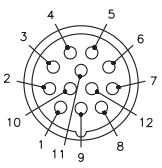
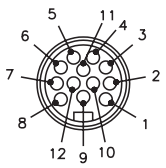


8-Port with Minifast® Home Run Connector



Notes
1. For mating CKM cordsets. See Multifast pages.
2. For mating RKM cordsets. See Minifast pages.

Pinout

5-Pin Eurofast	12-Pin Multifast	12-pin Minifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Multibox® Eurofast® Junction Box, 16-Port

- **Single Input/ Output per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Quick Disconnect**
- **Available with LEDs**

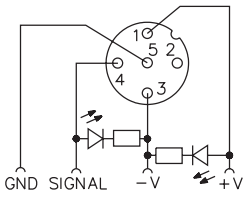
16-Port, 1-Signal per Port, 10-48 VDC

Application	Specifications	Pinout				PNP LED
		Function	Pin / Color	Function	Pin / Color	
16-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector. Mates with CKM 19-19-* CSA Certified	+V	19 / BN	Port 7	3 / GY	16MB12-4P2-CS19
		-V	6 / BU	Port 8	14 / BN / GN	
		Ground	12 / GN / YE	Port 9	17 / PK	
		Port 1	15 / WH	Port 10	9 / WH / YE	
		Port 2	7 / GY / PK	Port 11	2 / RD	
		Port 3	5 / GN	Port 12	13 / YE / BN	
		Port 4	4 / RD / BU	Port 13	11 / BK	
		Port 5	16 / YE	Port 14	10 / WH / GY	
		Port 6	8 / WH / GN	Port 15	1 / VT	
				Port 16	18 / GY / BN	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



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

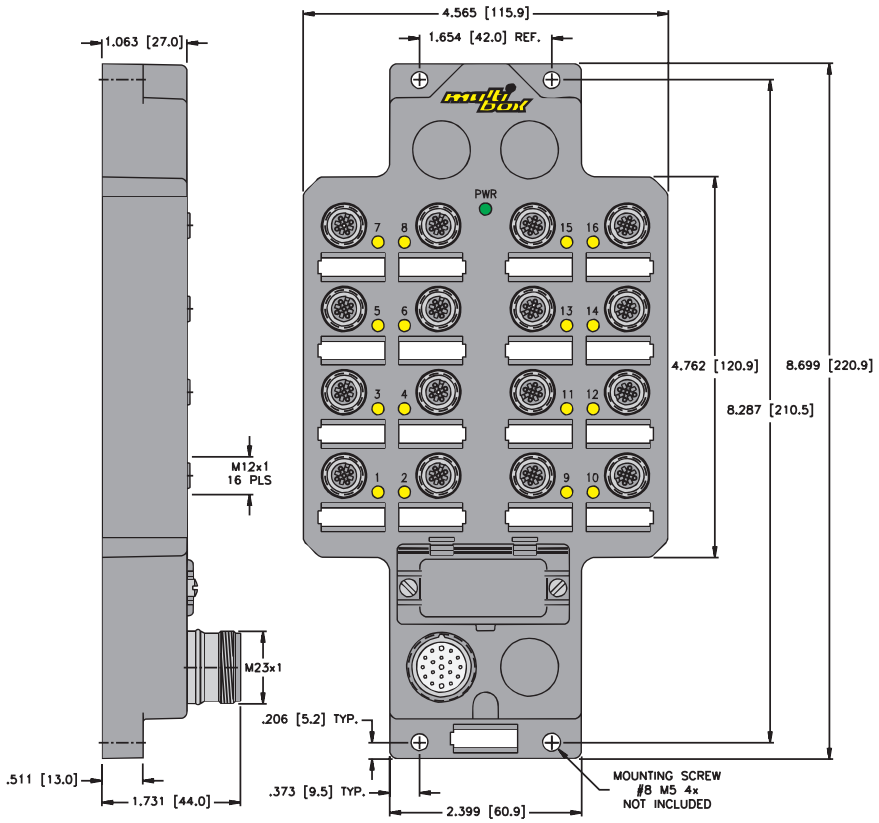
Multibox® Eurofast® Junction Box, 16-Port

Specifications

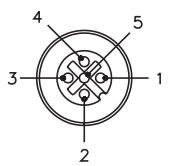
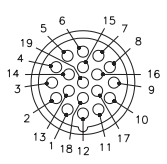
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon/BK (1,1A-8,8A), Nitrile/Yellow (P1)	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	Includes (2) VZ 3 closure caps and a VZ 1 label kit (16 labels) included
Thread Inserts:	Nickel plated brass	**Cable Length:**	Standard length is nominal 5 meters. Other lengths available upon request - Consult factory

Dimensions

16-Port



Pinout

5-Pin Eurofast	19-pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Multibox® Eurofast® AC/DC Junction Box, 4-Port

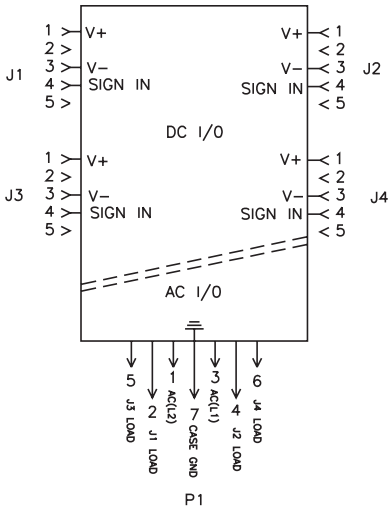
- 4 Ports for connecting DC sensors
- Integrated DC power supply
- Solid-State AC output from DC sensors
- LED shows power supply function
- Home Run wiring matches standard AC style junction boxes for easy installation

4-Port, 85-132 VAC

Application	Specifications	Pinout		Part Number
4-port J-box for DC sensors in AC applications	85 - 132 VAC input 24 VDC output to sensors 100 mA output per port 7-pin Minifast® connector. Mates with RKM 76-*M	Function	Pin/Color	VBM-AC/DC/AC-RSM 70/ADAPTER BOX
		L1 AC Common	3 / WH	
		L2 AC	1 / WH / BK	
		Ground	7 / GN	
		J1 Load (L2)	2 / BK	
		J2 Load (L2)	4 / RD	
		J3 Load (L2)	5 / OG	
		J4 Load (L2)	6 / BU	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



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

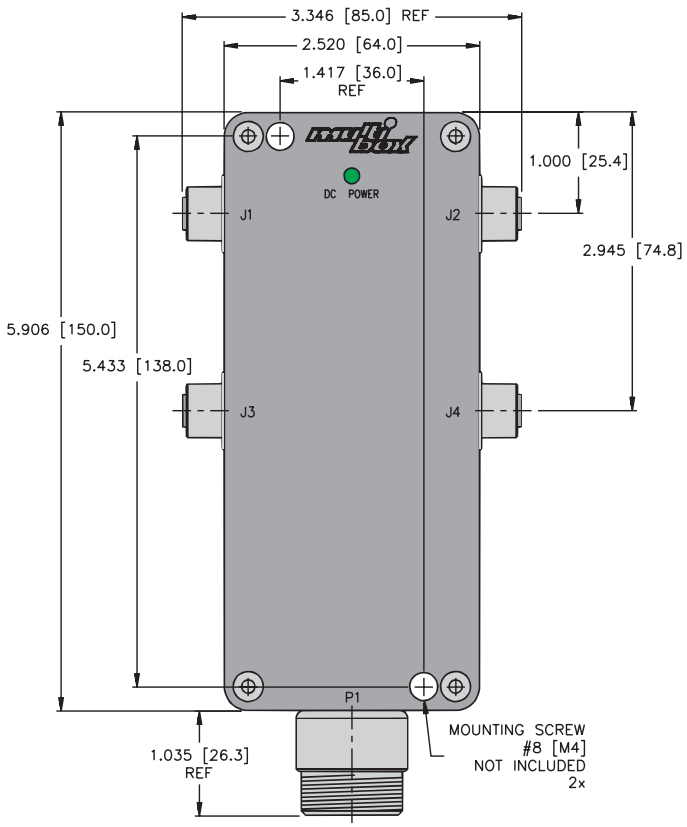
Multibox® Eurofast® AC/DC Junction Box, 4-Port

Specifications

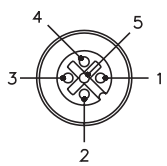
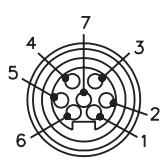
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +70 °C (-22 °C to +158 °F)
Contact Carrier:	Eurofast: Nylon or TPU. Minifast®: TPU	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	VZ 3 Closure Caps (2 included)
Thread Inserts:	Nickel plated brass		

Dimensions

4-Port



Pinout

5-Pin Eurofast	7-pin Minifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Multibox® Picofast® Junction Boxes, 4-Port, 3-Pin

- Snap Lock or Threaded Connectors
- Available with or without LEDs
- M12 Quick Disconnect or Integral Home Run Cable

4-Port, Snap Lock, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4 port J-box, 1 signal per port, snap lock port connectors, integral homerun cable	2 A/ signal, 6 A total Black PVC cable 6x24 AWG	Function / Color +V / BN - V / BU Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY	TB-4M8Z-3-*	TB-4M8Z-3P2-*	TB-4M8Z-3N2-*
4 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/ signal, 2 A total 8-pin Eurofast connector 6 conductors. Mates with RKC 8.6T-*	Function / Pin +V / 5 - V / 7 Port 1 / 1 Port 2 / 2 Port 3 / 3 Port 4 / 4	TB-4M8Z-3-FS8	TB-4M8Z-3P2-FS8	TB-4M8Z-3N2-FS8

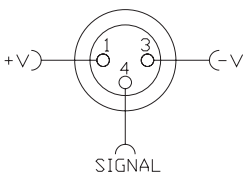
4-Port, Threaded, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4 port J-box, 1 signal per port, threaded port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 6x24 AWG	Function / Color +V / BN - V / BU Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY	TB-4M8M-3-*	TB-4M8M-3P2-*	TB-4M8M-3N2-*
4 port J-box, 1 signal per port, threaded port connectors, Eurofast(R) homerun connector	2 A/ signal, 2 A total 8-pin Eurofast connector 6 conductors. Mates with RKC 8.6T-*	Function / Pin +V / 5 - V / 7 Port 1 / 1 Port 2 / 2 Port 3 / 3 Port 4 / 4	TB-4M8M-3-FS8	TB-4M8M-3P2-FS8	TB-4M8M-3N2-FS8

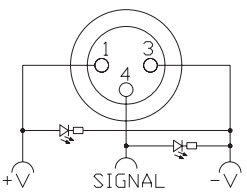
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

No LED Version



LED Version



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

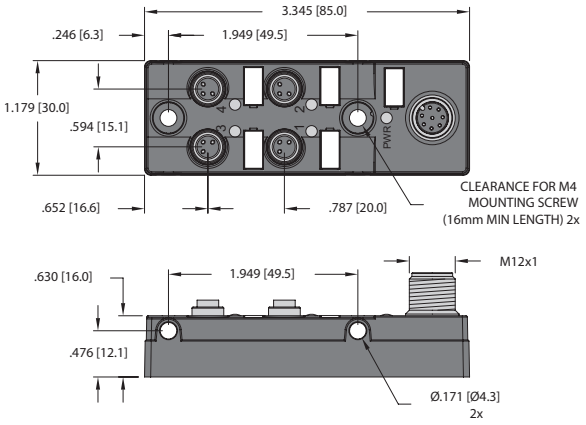
Multibox® Picofast® Junction Boxes, 4-Port, 3-Pin

Specifications

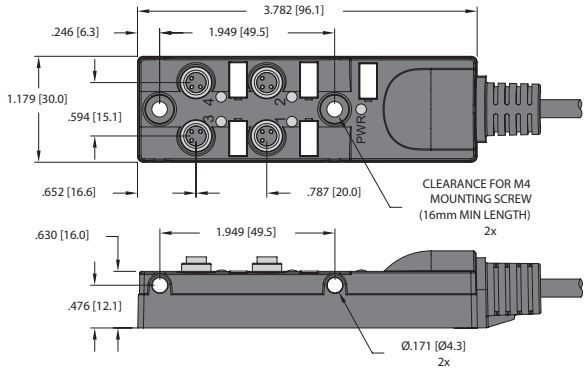
Housing:	Nylon
Connectors:	Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Protection:	IEC IP67 (all) , IP68 (threaded only)
Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory

Dimensions

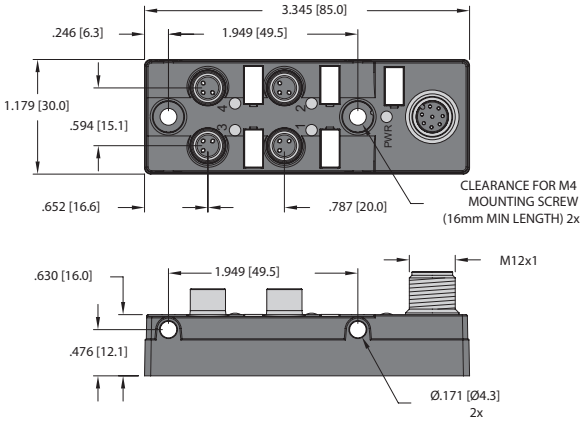
4-Port Snap Lock with Eurofast Home Run Connector



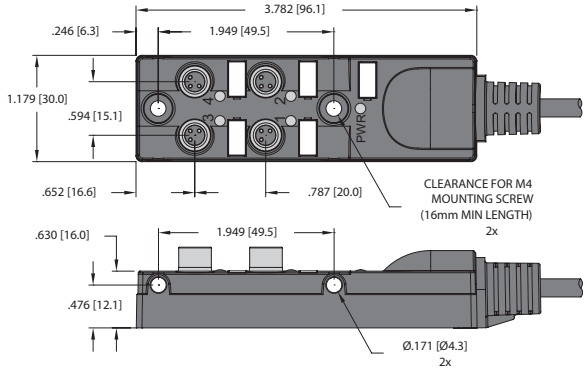
4-Port Snap Lock with Integral Home Run Cable



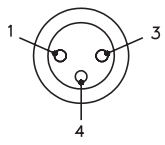
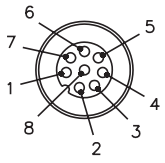
4-Port Threaded with Eurofast Home Run Connector



4-Port Threaded with Integral Home Run Cable



Pinout

3-pin Picofast	8-pin Eurofast
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Multibox® Picofast® Junction Boxes, 8-Port, 3-Pin

- **Snap Lock or Threaded Connectors**
- **Available with or without LEDs**
- **M12 Quick Disconnect or Integral Home Run Cable**

8-Port, Snap Lock, 10-30 VDC

Application	Specifications	Homerun Pinout	No LEDs	PNP LED	NPN LED
8 port J-box, 1 signal per port, snap lock port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 10x24 AWG	Function / Color: +V BN, - V BU, Port 1 WH, Port 2 GN, Port 3 YE; Function / Color: Port 4 GY, Port 5 PK, Port 6 RD, Port 7 BK, Port 8 VT	TB-8M8Z-3-*	TB-8M8Z-3P2-*	TB-8M8Z-3N2-*
8 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/port, 2 A total for single power, mates with RKC 10T*/S3477 2 A/port, 4A total for dual power, mates with RKC 12T*/S3477	Function / Pin: +V 1, 12; - V 2, 11; Port 1 3; Port 2 4; Port 3 6; Function / Pin: Port 4 8; Port 5 5; Port 6 9; Port 7 7; Port 8 10	TB-8M8Z-3-FS12	TB-8M8Z-3P2-FS12	TB-8M8Z-3N2-FS12

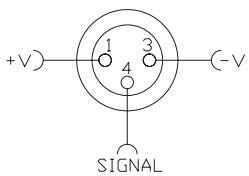
8-Port, Threaded, 10-30 VDC

Application	Specifications	Homerun Pinout	No LEDs	PNP LED	NPN LED
8 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/port, 6 A total Black PVC cable 10x24 AWG	Function / Color: +V BN, - V BU, Port 1 WH, Port 2 GN, Port 3 YE; Function / Color: Port 4 GY, Port 5 PK, Port 6 RD, Port 7 BK, Port 8 VT	TB-8M8M-3-*	TB-8M8M-3P2-*	TB-8M8M-3N2-*
8 port J-box, 1 signal per port, threaded port connectors, Eurofast(R) homerun connector	2 A/port, 2 A total for single power, mates with RKC 10T*/S3477 2 A/port, 4A total for dual power, mates with RKC 12T*/S3477	Function / Pin: +V 1, 12; - V 2, 11; Port 1 3; Port 2 4; Port 3 6; Function / Pin: Port 4 8; Port 5 5; Port 6 9; Port 7 7; Port 8 10	TB-8M8M-3-FS12	TB-8M8M-3P2-FS12	TB-8M8M-3N2-FS12

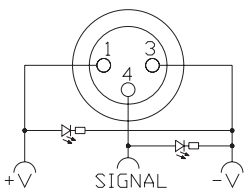
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

No LED Version



LED Version



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

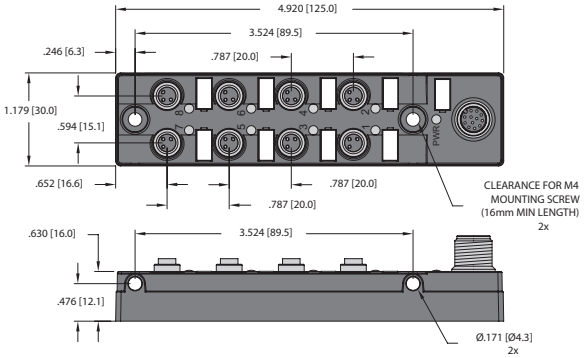
Multibox® Picofast® Junction Boxes, 8-Port, 3-Pin

Specifications

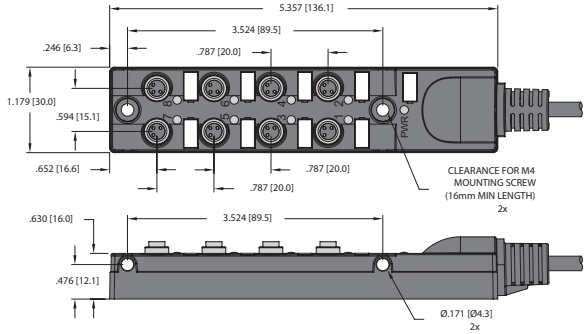
Housing:	Nylon
Connectors:	Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Protection:	IEC IP67 (all) , IP68 (threaded only)
Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 9 pieces KS 5/10 labels included
Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory

Dimensions

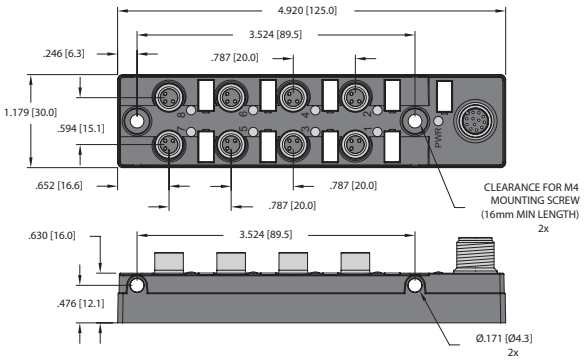
8-Port Snap Lock with Eurofast Home Run Connector



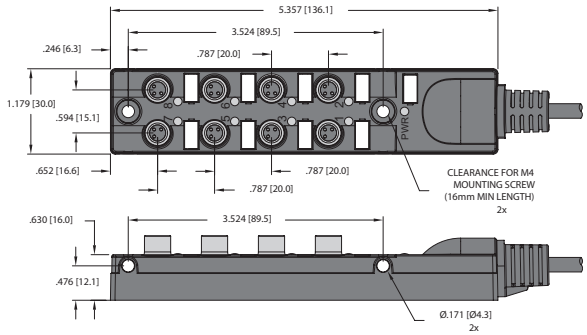
8-Port Snap Lock with Integral Home Run Cable



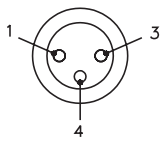
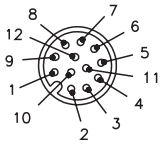
8-Port Threaded with Eurofast Home Run Connector



8-Port Threaded with Integral Home Run Cable



Pinout

3-pin Picofast	12-pin Eurofast™
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 4-Port, 4-pin

- **Dual Input/Output per Port**
- **Snap Lock or Threaded Connectors**
- **M12 Quick Disconnect or Integral Home Run Cable**

4-Port, 4-pin, Snap Lock, 10-30 VDC

Application	Specifications	Pinout	No LEDs
4 port J-box, 2 signals per port, snap lock port connectors, integral homerun cable	2 A/signal, 6 A total black PVC cable 10x24 AWG	Function / Color: +V BN; - V BU; Port 1/2 RD; Port 1/4 PK; Port 2/2 YE; Port 2/4 GY. Function / Color: Port 3/2 GN; Port 3/4 WH; Port 4/2 BK; Port 4/4 VT	TB-4M8Z-4-*
4 port J-box, 2 signals per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/signal, 2 A total for single power, mates with RKC 10T*/S3476 2 A/signal, 4A total for dual power, mates with RKC 12T*/S3476	Function / Pin: +V 1, 12; - V 2, 11; Port 1/2 5; Port 1/4 3. Function / Pin: Port 2/2 9; Port 2/4 4; Port 3/2 7; Port 3/4 6; Port 4/2 10; Port 4/4 8	TB-4M8Z-4-FS12

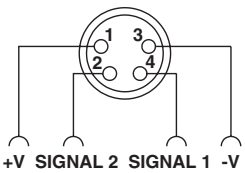
4-Port, 4-pin, Threaded, 10-30 VDC

Application	Specifications	Pinout	No LEDs
4 port J-box, 2 signals per port, threaded port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 10x24 AWG	Function / Color: +V BN; - V BU; Port 1/2 RD; Port 1/4 PK; Port 2/2 YE. Function / Color: Port 2/4 GY; Port 3/2 GN; Port 3/2 WH; Port 4/2 BK; Port 4/4 VT	TB-4M8M-4-*
4 port J-box, 2 signals per port, threaded port connectors, Eurofast(R) homerun connector	2 A/signal, 2 A total for single power, mates with RKC 10T*/S3476 2 A/signal, 4A total for dual power, mates with RKC 12T*/S3476	Function / Pin: +V 1, 12; - V 2, 11; Port 1/2 5; Port 1/4 3. Function / Pin: Port 2/2 9; Port 2/4 4; Port 3/2 7; Port 3/4 6; Port 4/2 10; Port 4/4 8	TB-4M8M-4-FS12

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



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

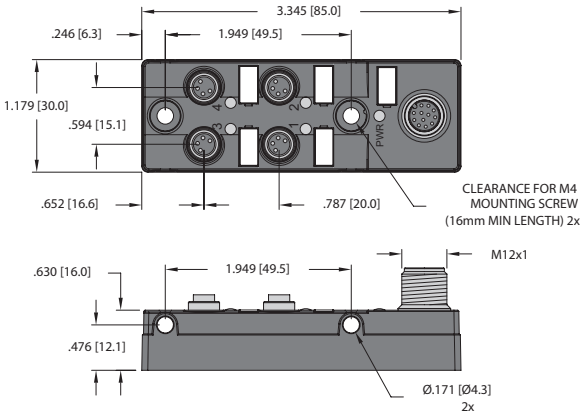
Multibox® Picofast® Junction Boxes, 4-Port, 4-pin

Specifications

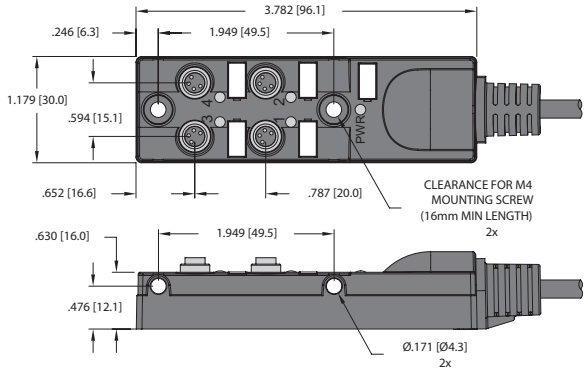
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	**Protection:**	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	**Accessories:**	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass		
Cable:	See table	**Cable Length:**	Standard length is nominal 5 meters Other lengths available by request - Consult factory
		Recommended Splitter:	YP2-MFS 4/2MFK 3, for threaded version only

Dimensions

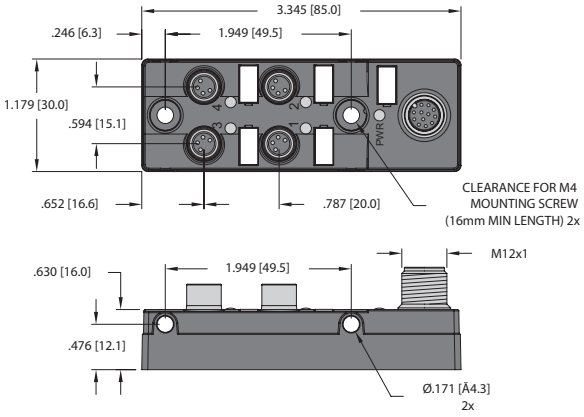
4-Port Snap Lock with Eurofast Home Run Connector



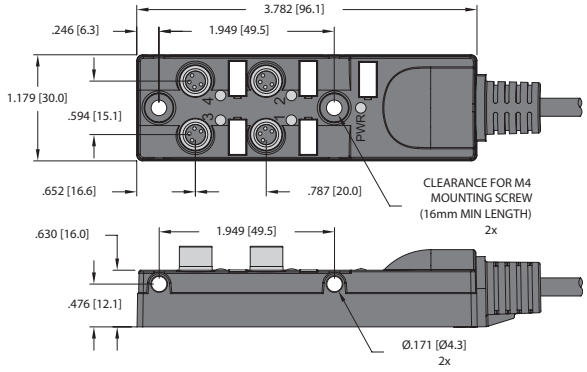
4-Port Snap Lock with Integral Home Run Cable



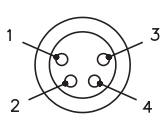
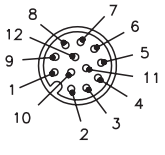
4-Port Threaded with Eurofast Home Run Connector



4-Port Threaded with Integral Home Run Cable



Pinout

4-pin Picofast	12-pin Eurofast
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 8-Port, 4-pin

- **Dual Input/Output per Port**
- **Snap Lock or Threaded Connectors**
- **Integral Home Run Cable or M16 Cordset**

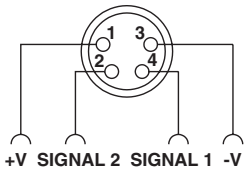
4-Port, 4-pin, Snap Lock, 10-48 VDC

Application	Specifications	Homerun Pinout				No LEDs
8 port J-box, 2 signals per port, snap lock port connectors, integral homerun cable	2 A / signal, 6 A total Black PVC cable 19x22 AWG	Function - V +V Port 1/2 Port 1/4 Port 2/2 Port 2/4 Port 3/2 Port 3/4 Port 4/2	Color BU BN RD OG VT RD / BI GY / BN TN BK	Function Port 4/4 Port 5/2 Port 5/4 Port 6/2 Port 6/4 Port 7/2 Port 7/4 Port 8/2 Port 8/4	Color WH PK GY YE / BN YE GY / PK WH / GN WH / YE GN	TB-8M8Z-4-*
8 port J-box, 2 signals per port, snap lock port connectors, integral M16 homerun cordset	2 A / signal, 3 A total 19-pin M16 cordset Black PVC cable Mates with BKM 19-995-*	Function +V - V Port 1/2 Port 1/4 Port 2/2 Port 2/4 Port 3/2 Port 3/4 Port 4/2	Pin / Color L/BN A/BU R/RD M/OG O/VT C/RD/BU N/GY/BN U/TN E/BK	Function Port 4/4 Port 5/2 Port 5/4 Port 6/2 Port 6/4 Port 7/2 Port 7/4 Port 8/2 Port 8/4	Pin / Color P/WH G/PK S/GY K/YE/BN T/YE B/GY/PK D/WH/GN H/WH/YE I/GN	TB-8M8Z-4-*-BSM19

8-Port, 4-pin, Threaded, 10-48 VDC

Application	Specifications	Homerun Pinout				No LEDs
8 port J-box, 2 signals per port, threaded port connectors, integral homerun cable	2 A / signal, 6 A total Black PVC cable 19x22 AWG	Function - V +V Port 1/2 Port 1/4 Port 2/2 Port 2/4 Port 3/2 Port 3/4 Port 4/2	Color BU BN RD OG VT RD / BI GY /BN TN BK	Function Port 4/4 Port 5/2 Port 5/4 Port 6/2 Port 6/4 Port 7/2 Port 7/4 Port 8/2 Port 8/4	Color WH PK GY YE / BN YE GY / PK WH / GN WH/ YE GN	TB-8M8M-4-*
8 port J-box, 2 signals per port, threaded port connectors, integral M16 homerun cordset	2 A / signal, 3 A total 19-pin M16 cordset Black PVC cable Mates with BKM 19-995-*	Function +V - V Port 1/2 Port 1/4 Port 2/2 Port 2/4 Port 3/2 Port 3/4 Port 4/2	Pin / Color L/BN A/BU R/RD M/OG O/VT C/RD/BU N/GY/BN U/TN E/BK	Function Port 4/4 Port 5/2 Port 5/4 Port 6/2 Port 6/4 Port 7/2 Port 7/4 Port 8/2 Port 8/4	Pin / Color P/WH G/PK S/GY K/YE/BN T/YE B/GY/PK D/WH/GN H/WH/YE I/GN	TB-8M8M-4-*-BSM19

Functional Wiring Diagrams



We reserve the right to make technical alterations without prior notice.

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

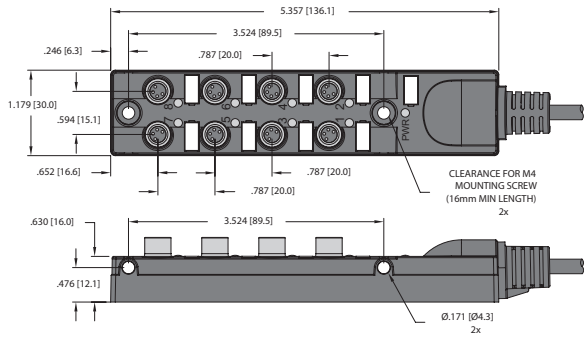
Multibox® Picofast® Junction Boxes, 8-Port, 4-pin

Specifications

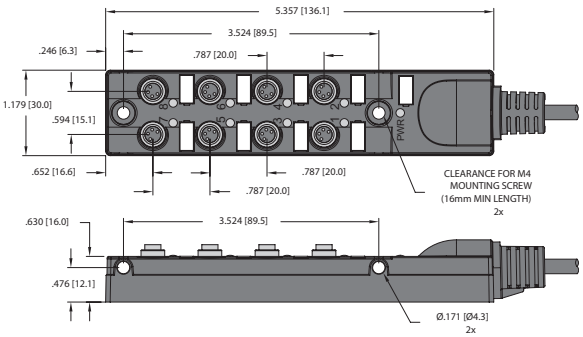
Housing:	Nylon	**Temperature:**	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	**Protection:**	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	**Accessories:**	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass		
Cable:	See table	**Cable Length:**	Standard length is nominal 5 meters Other lengths available by request - Consult factory
		Recommended Splitter:	YP2-MFS 4/2MFK 3, for threaded version only

Dimensions

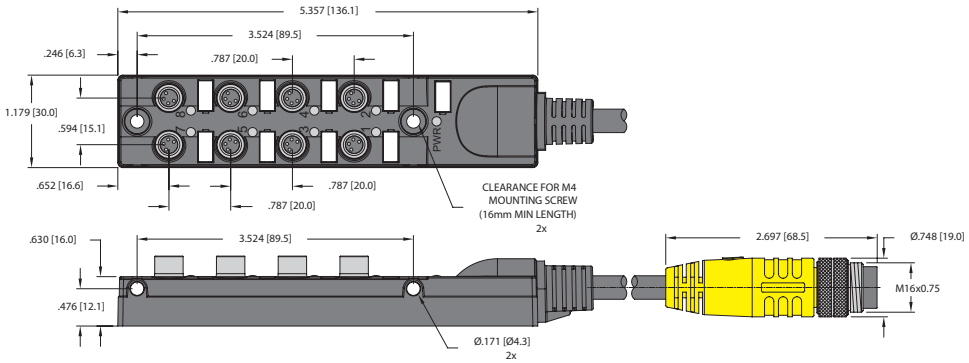
8-Port Threaded with Integral Home Run Cable



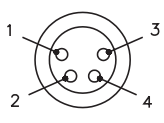
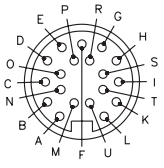
8-Port Snap Lock with Integral Home Run Cable



8-Port with Versafast™ Home Run Cordset



Pinout

4-pin Picofast	19-pin Versafast
Female	Male
	

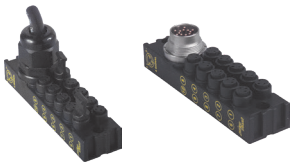
We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 10-Port

- **10 Inputs/Outputs**
- **M16 Quick Disconnect or Integral Home Run Cable**
- **For Use with 3-pin Snap Lock Picofast Cordsets**
- **Available with or without LEDs**



10-Port, J-box, Snap Lock, 48 VDC

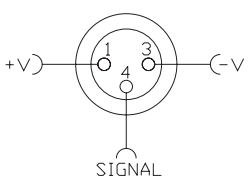
Application	Specifications	Pinout				No LEDs	PNP LED
10-port J-box Standard wiring Integral cable	3 A/port, 3 A total Black PVC cable 12x24 AWG Foil shield and 26 AWG drain	Function +V - V Port 1 Port 2 Port 3 Port 4	Color BN BU RD BK VT OG	Function Port 5 Port 6 Port 7 Port 8 Port 9 Port 10	Color TN WH GN YE GY PK	VB 1003-*	VB 1003-PX10-*
10-port J-box Standard wiring M16 connector	3 A/port, 3 A total 14 pin connector M16 threads. Mates with BKM 14-755-* or BKWM 14-755-*	Function +V - V Port 1 Port 2 Port 3 Port 4	Pin / Color M/BN U/BU P/RD E/BK O/VT C/OG	Function Port 5 Port 6 Port 7 Port 8 Port 9 Port 10	Pin / Color N/TN R/WH G/GN S/YE J/GY T/PK	VB 1003-BS14	VB 1003-PX10-BS14

* Length in meters.

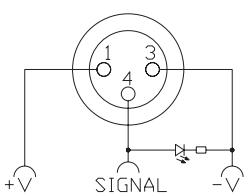
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

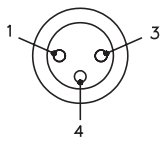
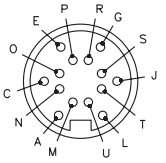
No LED Version



LED Version



Pinout

3-pin Picofast	14-pin Versafast™
Female	Male
	

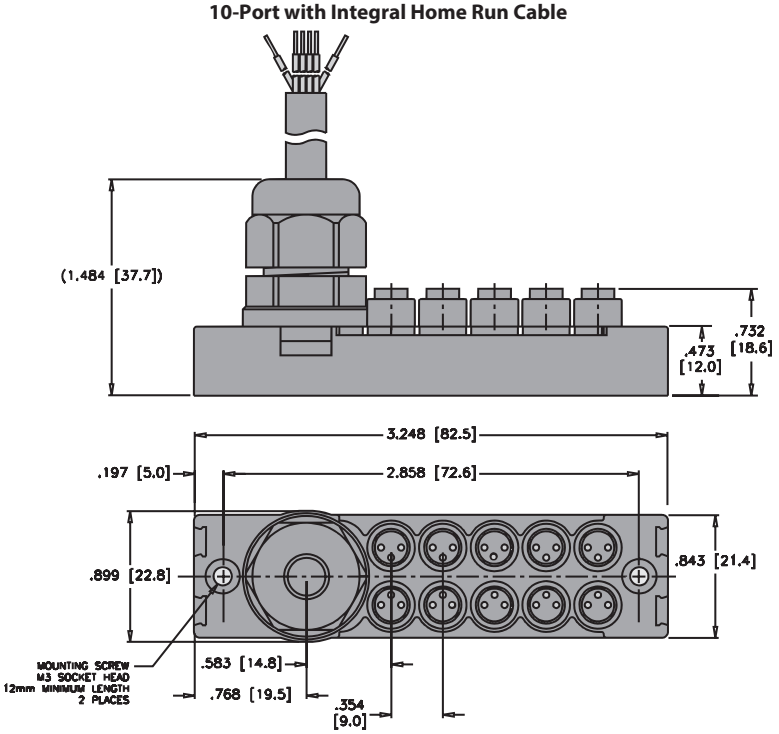
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Specifications

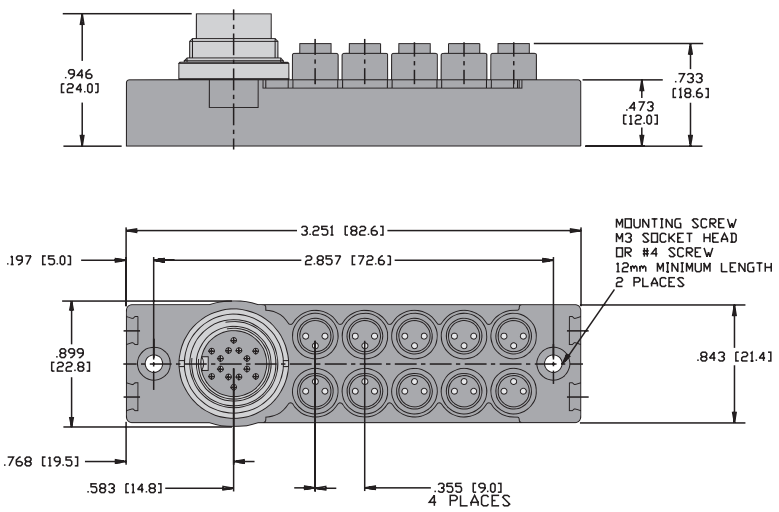
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	TPU or Nylon	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Accessories:**	Closure cap, PSG-CC (optional - 2 included)
		Cable Length:	Standard length for junction boxes and M16 cordsets is nominal 5 meters Other lengths available by request - Consult factory

Dimensions

10-Port with Integral Home Run Cable



10-Port with M16 Home Run Connector



We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 3-Pin

- **4, 6 and 8 Ports**
- **M23 Quick Disconnect, Minifast Connector or Integral Home Run Cable**
- **Simplifies Wiring Installations**

4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2)	Color WH GN RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color OG BK BU	4 RKF 30-*M
4-port J-box Standard wiring Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 6 conductors. Mates with CKRM 12-6-*	Function Common (L1) Ground J1 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin / Color 1 / OG 4 / BK 2 / BU	4 RKF 30-CS12
4-port J-box Standard wiring Minifast connector	4 A/port, 6 A total 6-pin Minifast connector, 6 conductors. Mates with RKM 61-*M	Function Common (L1) Ground J1 Load (L2)	Pin / Color 1 / WH 3 / GN 2 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin / Color 4 / OG 5 / BK 6 / BU	4 RKF 30-B1161

6-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
6-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Color WH GN RD OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Color BK BU YE BN	6 RKF 30-*M
6-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 8 conductors. Mates with CKRM 12-8-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD 1 / OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Pin / Color 4 / BK 2 / BU 3 / YE 8 / BN	6 RKF 30-CS12

8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color WH GN RD VT BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color BU GY YE OG BN	8 RKF 30-*M
8-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 10 conductors. Mates with CKRM 12-10-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD 1 / VT 4 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin / Color 2 / BU 3 / GY 8 / YE 9 / OG 10 / BN	8 RKF 30-CS12

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

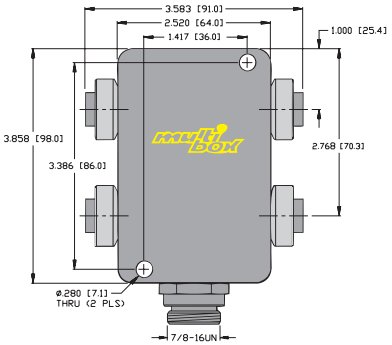
Multibox® Minifast® Junction Boxes, 3-Pin

Specifications

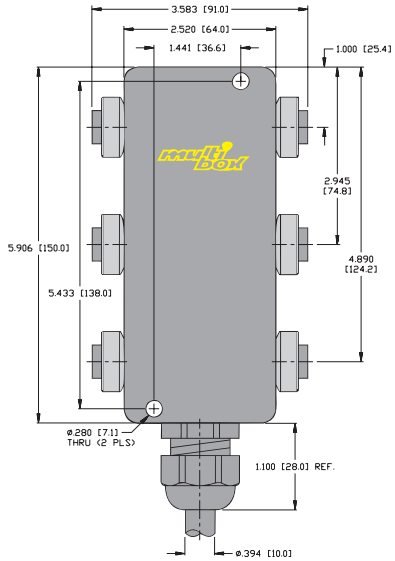
Housing:	Die cast aluminum alloy	**Temperature:**	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection Class:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions

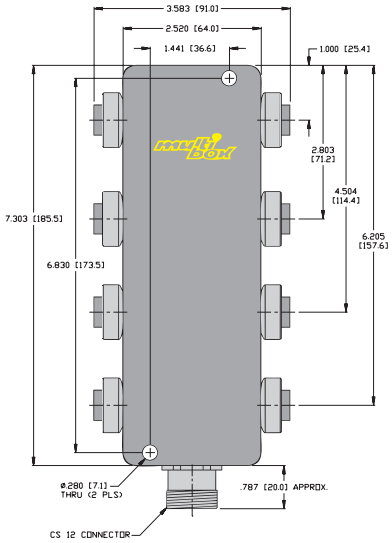
4-Port



6-Port



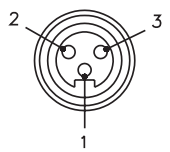
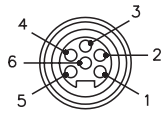
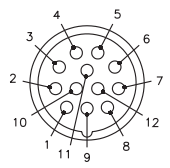
8-Port



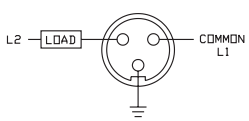
We reserve the right to make technical alterations without prior notice.

Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	6-pin Minifast	12-pin Multifast®
Female	Male	Male
		

Wiring Diagrams



Load (L2) is individual output. Common (L1) and Ground are wired parallel internally.

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

Multibox® Minifast® Junction Boxes, 3-pin

- 6 and 8 Ports
- Quick Disconnect Minifast Connector
- Simplifies Wiring Installations

6-Port, 250 VAC / 300 VDC

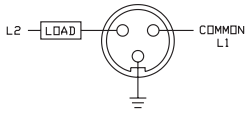
Application	Specifications	Pinout				Part Number
		Function	Pin / Color	Function	Pin / Color	
6-port J-box Standard wiring, Minifast connector	4 A/port 8 A total 8-pin Minifast connector 8 conductors. Mates with RKM 86-*M	Common (L1) Ground J1 Load (L2) J2 Load (L2)	5 / WH 7 / GN 6 / RD 1 / OG	J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	4 / BK 2 / BU 3 / WH / BK 8 / RD / BK	6 RKF 30-RSF80

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
		Function	Pin / Color	Function	Pin / Color	
8-port J-box Standard wiring, Minifast connector	4 A/port 7 A total 10-pin Minifast connector 10 conductors. Mates with RKM 106-*M	Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	10 / WH 8 / GN 7 / RD 1 / OG 9 / BK	J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 30-RSF100

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



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

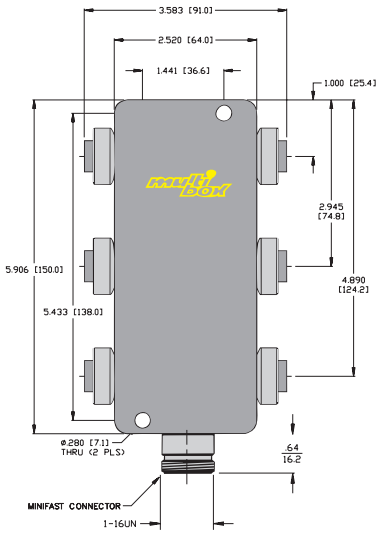
Multibox® Minifast® Junction Boxes, 3-pin

Specifications

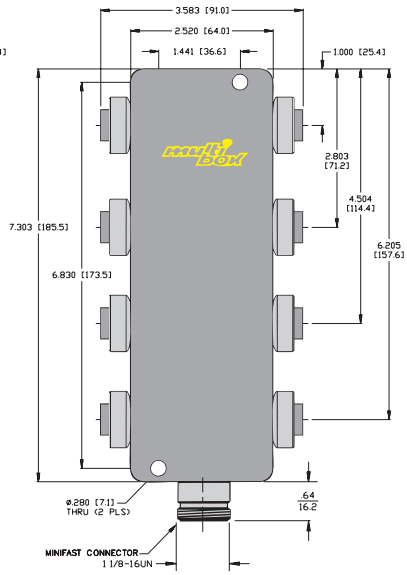
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection:**	IEC IP67
Contacts:	Gold plated brass		

Dimensions

6-Port

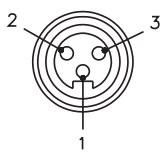
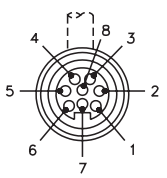
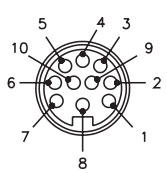


8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	8-pin Minifast	10-pin Minifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes with LEDs, 3-pin

- 4 and 8 Ports
- M23 Quick Disconnect or Integral Home Run Cable
- Simplifies Wiring Installations
- LEDs for Power and Signal

4-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
4 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 7x18 AWG, foil shield and 20 AWG drain	Function Common (L1) LED Power (L2) Ground J1 Load (L2)	Color WH WH / BK GN RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color OG BK BU	4 RKF 30-X5-*M
4 port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 7 conductors. Mates with CKBM 12-7-*	Function Common (L1) LED Power (L2) Ground J1 Load (L2)	Pin / Color 3 / WH 1 / WH/BK 7 / GN 4 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin / Color 5 / OG 2 / BK 6 / BU	4 RKF 30-X5-CS12

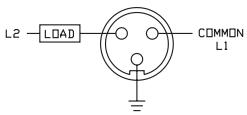
8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 11x18 AWG, foil shield and 20 AWG drain	Function Common (L1) LED Power (L2) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color WH BU / BK GN RD OG BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color BU WH / BK RD / BK GN / BK OG / BK	8 RKF 30-X9-*M
8 port J-box, Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 11 conductors. Mates with CKBM 12-11-*	Function Common (L1) LED Power (L2) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Pin / Color 11 / WH 7 / BU/BK 9 / GN 10 / RD 1 / OG 12 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin / Color 2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 30-X9-CS12

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



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

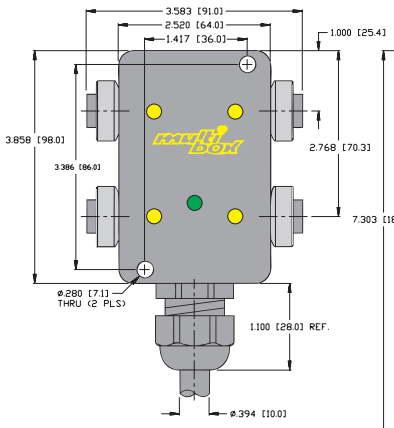
Multibox® Minifast® Junction Boxes with LEDs, 3-pin

Specifications

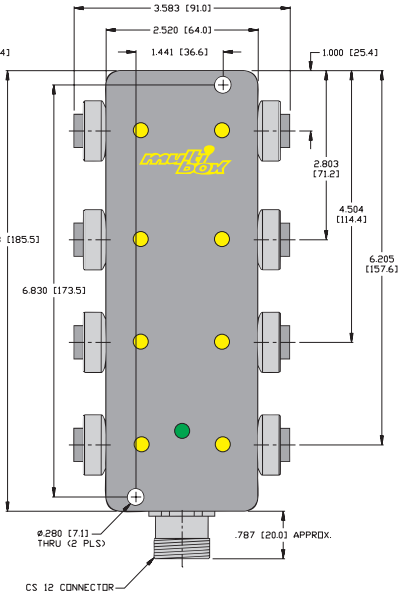
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection Class:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions

4-Port

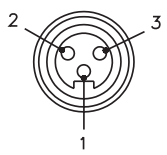
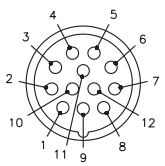


8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.
Green LED = Power on (center position)
Yellow LED = Signal (outer position).

Pinout

3-pin Minifast	12-pin Multifast®
Female	Male
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes with LEDs, 3-pin

- **4 and 8 Ports**
- **Quick Disconnect Minifast Connector**
- **Simplifies Wiring Installations**
- **LEDs for Power and Signal**

4-Port, 40-120 VAC

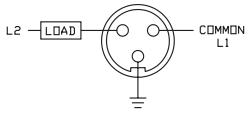
Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring, Minifast connector	4 A/port 8 A total 7-pin Minifast connector 7 conductors. Mates with RKM 76-*M	Function Common (L1) LED Pwr (L2) Ground J1 Load (L2)	Color 3 / WH 1 / WH / BK 7 / GN 4 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color 5 / OG 2 / BK 6 / BU	4 RKF 30-X5-RSF70

8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring, Minifast connector	4 A/port 7 A total 12-pin Minifast connector 11 conductors. Mates with RKM 126-*M	Function Common (L1) LED Pwr (L27) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color 11 / WH 1 / BU / BK 9 / GN 10 / RD 1 / OG 12 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color 2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 30-X9-RSF120

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



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

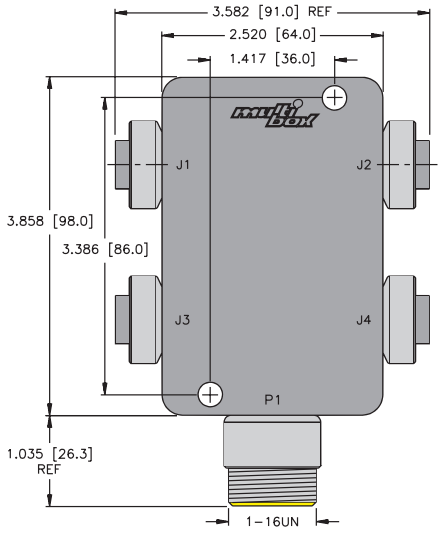
Multibox® Minifast® Junction Boxes with LEDs, 3-pin

Specifications

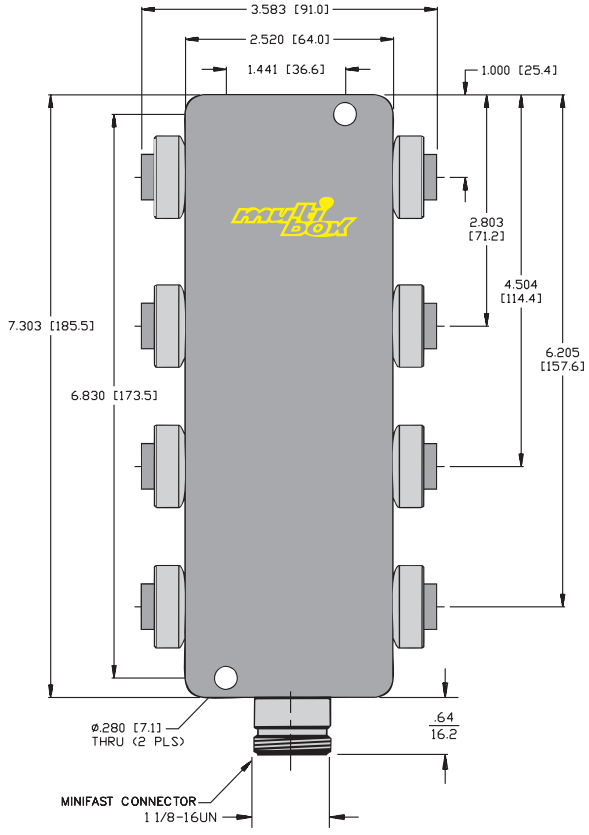
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection:**	IEC IP67
Contacts:	Gold plated brass		

Dimensions

4-Port

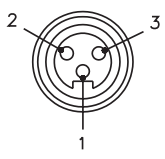
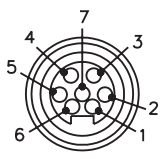
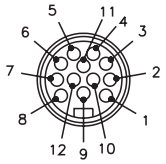


8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	7-pin Minifast	12-pin Minifast
Female	Male	Male
		

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 4-pin

- **4, 6 and 8 Ports**
- **Integral Home Run Cable**
- **Simplifies Wiring Installations**

4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
		Function	Color	Function	Color	
4-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	Common +V Ground -V J1 Load	WH GN RD	J2 Load J3 Load J4 Load	OG BK BU	4 RKF 40-*M

6-Port, 250 VAC/300 VDC

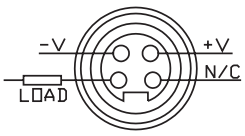
Application	Specifications	Pinout				Part Number
		Function	Color	Function	Color	
6-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	Common +V Ground -V J1 Load J2 Load	WH GN RD OG	J3 Load J4 Load J5 Load J6 Load	BK BU YE BN	6 RKF 40-*M

8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
		Function	Color	Function	Color	
8-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	Common +V Ground -V J1 Load J2 Load J3 Load	WH GN RD VT BK	J4 Load J5 Load J6 Load J7 Load J8 Load	BU GY YE OG BN	8 RKF 40-*M

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



Power (pin 1 and pin 3) are wired parallel internally.
Load (pin 4) is individual output. Pin 2 is not used.

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

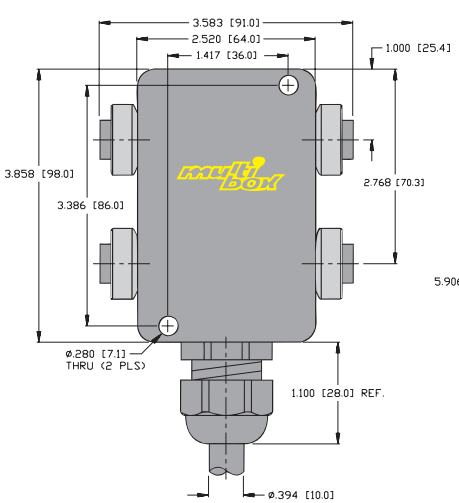
Multibox® Minifast® Junction Boxes, 4-pin

Specifications

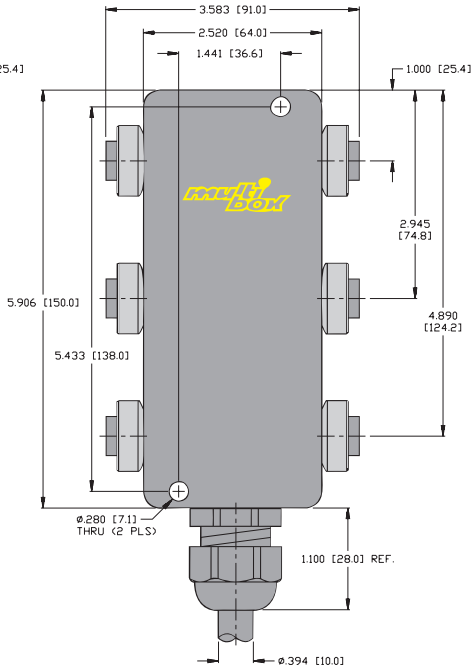
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection Class:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions

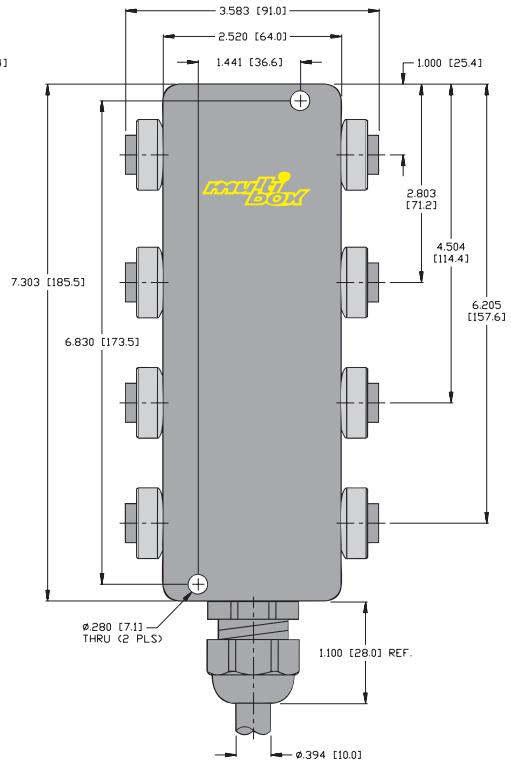
4-Port



6-Port



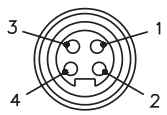
8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

4-pin Minifast
Female



We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 4-pin

- **4, 6 and 8 Ports**
- **Quick Disconnect Minifast Connector**
- **Simplifies Wiring Installations**

4-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
		Function	Pin/Color	Function	Pin/Color	
4-port J-box 4-pin connectors, Minifast connector	4 A/port 8 A total 6-pin Minifast connector 6 conductors. Mates with RKM 66-*M	Common +V Ground -V J1 Load	1 / WH 3 / GN 2 / RD	J2 Load J3 Load J4 Load	4 / OG 5 / BK 6 / BU	4 RKF 40-RSF6B6

6-Port, 250 VAC / 300 VDC

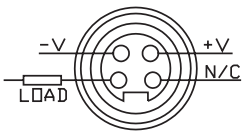
Application	Specifications	Pinout				Part Number
		Function	Pin/Color	Function	Pin/Color	
6-port J-box 4-pin connectors, Minifast connector	4 A/port 8 A total 8-pin Minifast connector 8 conductors. Mates with RKM 86-*M	Common +V Ground -V J1 Load J2 Load	5 / WH 7 / GN 6 / RD 1 / OG	J3 Load J4 Load J5 Load J6 Load	4 / BK 2 / BU 3 / WH / BK 8 / RD / BK	6 RKF 40-RSF80

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
		Function	Pin/Color	Function	Pin/Color	
8-port J-box 4-pin connectors, Minifast connector	4 A/port 7 A total 10-pin Minifast connector 10 conductors. Mates with RKM 106-*M	Common +V Ground -V J1 Load J2 Load J3 Load	10 / WH 8 / GN 7 / RD 1 / OG 9 / BK	J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 40-RSF100

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



Power (pin 1 and pin 3) are wired parallel internally.
Load (pin 4) is individual output. Pin 2 is not used.

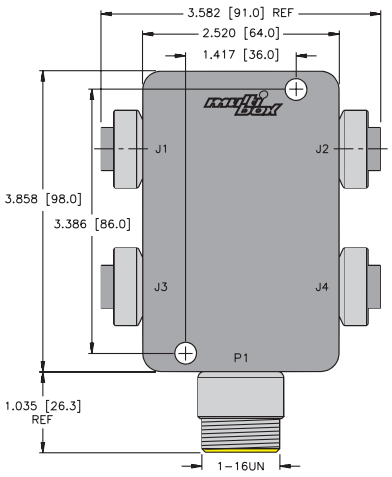
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Specifications

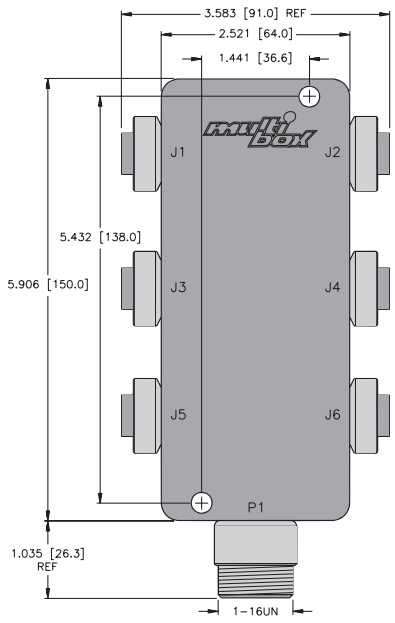
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection:**	IEC IP67
Contacts:	Gold plated brass		

Dimensions

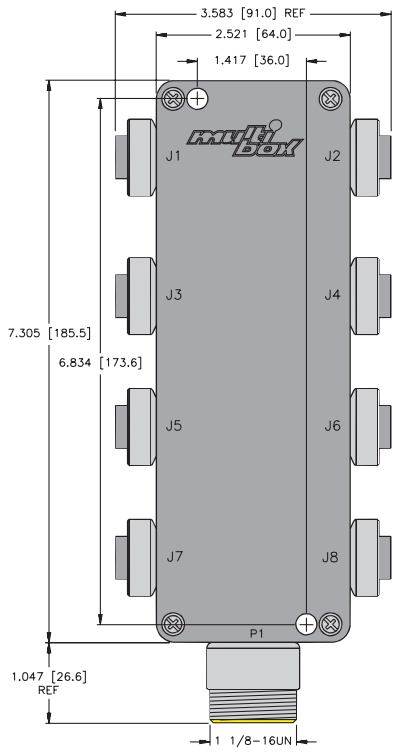
4-Port



6-Port

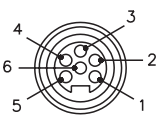
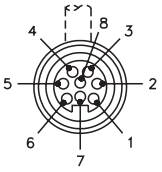
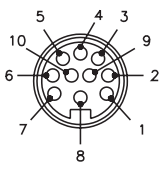


8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

4-pin Minifast	6-pin Minifast	8-pin Minifast	10-pin Minifast
Female	Male	Male	Male
			

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, Series Wired

- 4, 6 and 8 Ports
- Minifast Quick Disconnect or Integral Home Run Cable
- Simplifies Wiring Installations
- Series Wired for Logic Wiring and or NOR Junction

4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout	Part Number
4 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function / Color Common (L1) / WH Ground / GN Load (L2) / BK	4 RKF 301-*M
4 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function / Pin/Color Common (L1) / 3 / WH Ground / 1 / GN Load (L2) / 2 / BK	4 RKF 301-B1131

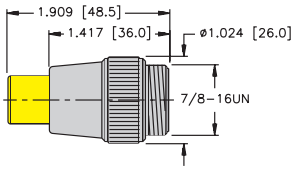
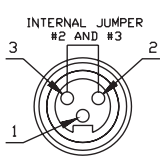
6-Port, 250 VAC/300 VDC

Application	Specifications	Pinout	Part Number
6 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function / Color Common (L1) / WH Ground / GN Load (L2) / BK	6 RKF 301-*M
6 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function / Pin/Color Common (L1) / 3 / WH Ground / 1 / GN Load (L2) / 2 / BK	6 RKF 301-B1131

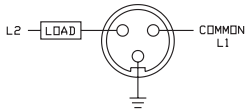
8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout	Part Number
8 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3x16 AWG	Function / Color Common (L1) / WH Ground / GN Load (L2) / BK	8 RKF 301-*M
8 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function / Pin/Color Common (L1) / 3 / WH Ground / 1 / GN Load (L2) / 2 / BK	8 RKF 301-B1131

We reserve the right to make technical alterations without prior notice.

Housing Style	Part Number	Features	Pinout
	RSM 30-J23	Jumper plug for use on unused inputs	

Functional Wiring Diagrams



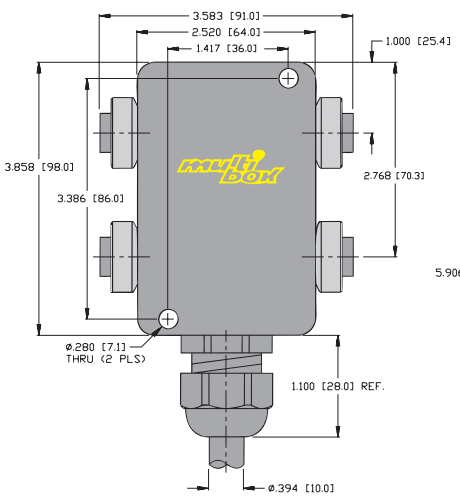
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Specifications

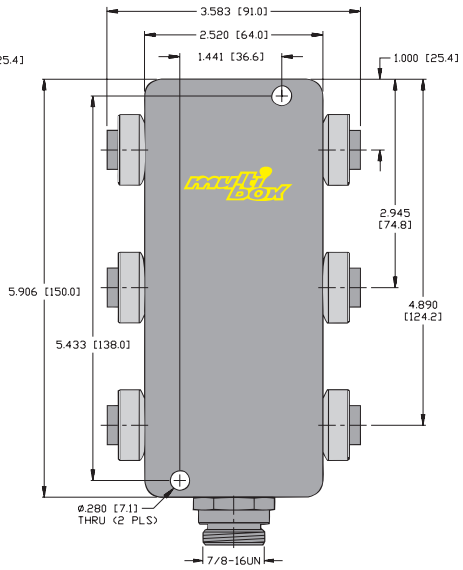
Housing:	Die cast aluminum alloy	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions

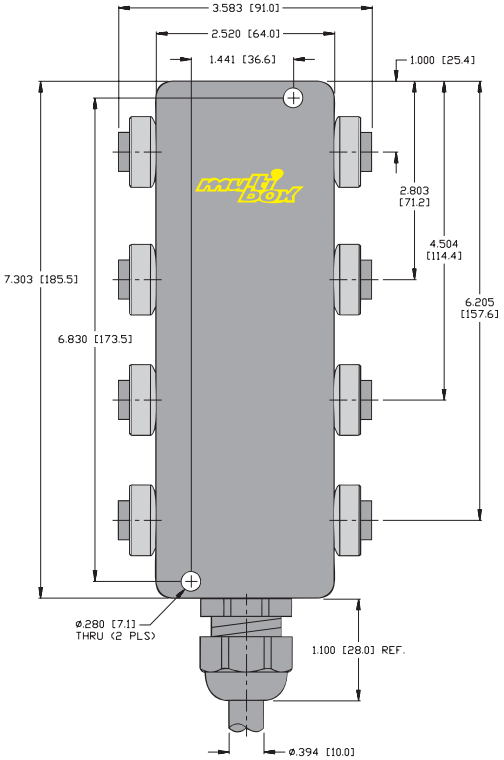
4-Port



6-Port

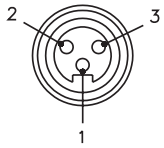
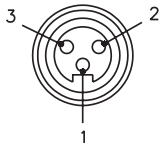


8-Port



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	
Female	**Male**
	

We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Microfast® Junction Boxes

- 4, 6 and 8 Ports
- For AC Sensors
- M23 Quick Disconnect, Minifast® Connector or Integral Home Run Cable
- Simplifies Wiring Installations

4-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2)	Color WH GN RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color OG BK BU	VBKB 40-*
4-port J-box Standard wiring, Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 6 conductors. Mates with CKRM 12-6-*	Function Common (L1) Ground J1 Load (L2)	Pin/Color 5 / WH 7 / GN 6 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin/Color 1 / OG 4 / BK 2 / BU	VBKB 40-CS12
4-port J-box Standard wiring Minifast connector	4 A/port, 9 A total 6-pin Minifast connector, 6 conductors. Mates with RKM 66-*M	Function Common (L1) Ground J1 Load (L2)	Pin/Color 1 / WH 3 / GN 2 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin/Color 4 / OG 5 / BK 6 / BU	VBKB 40-B1161

6-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
6-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Color WH GN RD OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Color BK BU YE BN	VBKB 60-*
6-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 8 conductors. Mates with CKRM 12-8-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Pin/Color 5 / WH 7 / GN 6 / RD 1 / OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Pin/Color 4 / BK 2 / BU 3 / YE 8 / BN	VBKB 60-CS12

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring, Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color WH GN RD VT BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color BU GY YE OG BN	VBKB 80-*
8-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 10 conductors. Mates with CKRM 12-10-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Pin/Color 5 / WH 7 / GN 6 / RD 1 / VT 4 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin/Color 2 / BU 3 / GY 8 / YE 9 / OG 10 / BN	VBKB 80-CS12

* Length in meters.

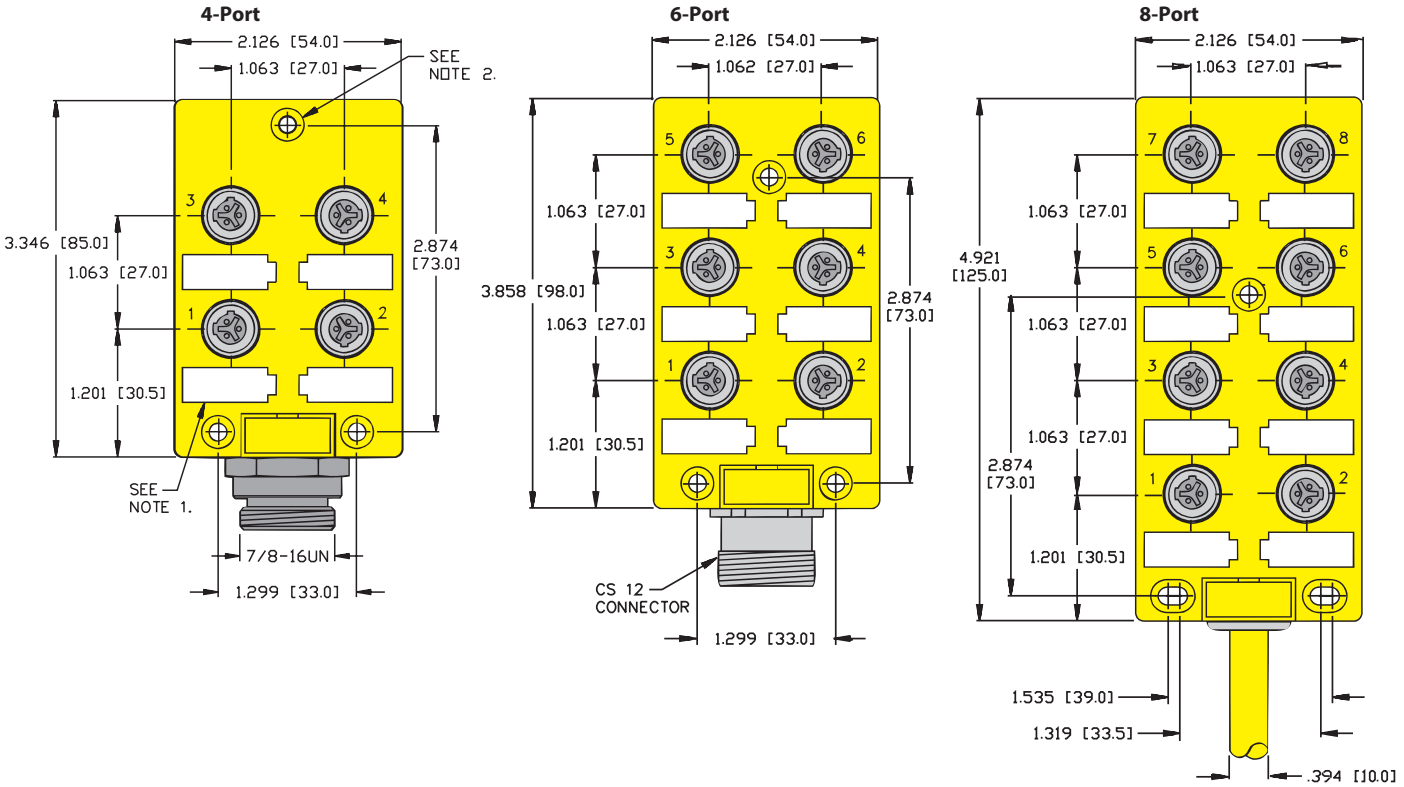
We reserve the right to make technical alterations without prior notice.

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

Specifications

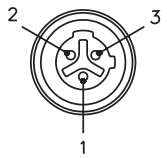
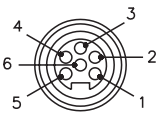
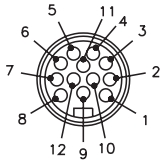
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon (Microfast)	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is nominal 5 meters. Other lengths available by request - consult factory
Thread Inserts:	Nickel plated brass		
Cable:	See table	**Accessories:**	(2) SB-CC closure caps and a VZ1 label kit included

Dimensions

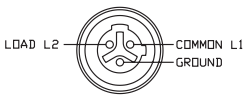


Notes
Removable labels included.
Clearance holes for #8 screws (3 places).
Housings with integral cable: 23 mm in thickness.
Housings with quick disconnect: 33 mm thickness.

Pinout

3-pin Microfast	6-pin Minifast®	12-pin Multifast®
Female	Male	Male
		

Functional Wiring Diagrams



We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Multibox® Microfast® Junction Boxes with LEDs

- **4 and 8 Ports**
- **For AC Sensors**
- **Simplifies Wiring Installations**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **LEDs for Power and Signal**

4-Port, 40-120 VAC

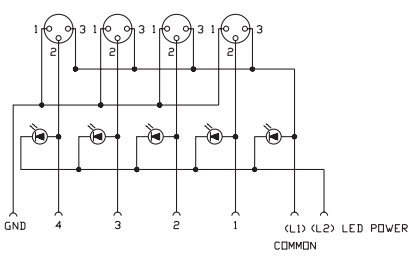
Application	Specifications	Pinout				Part Number
4 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 7x18 AWG, foil shield and 20 AWG drain	Function Common (L1) LED Power (L2) Ground J1 Load (L2)	Color WH WH / BK GN RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color OG BK BU	VBKB 40-X5-*
4 port J-box Standard wiring Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 7 conductors. Mates with CKBM 12-7-*	Function Common (L1) LED Power (L2) Ground J1 Load (L2)	Pin/Color 3 / WH 1 / WH/BK 7 / GN 4 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin/Color 5 / OG 2 / BK 6 / BU	VBKB 40-X5-CS12v

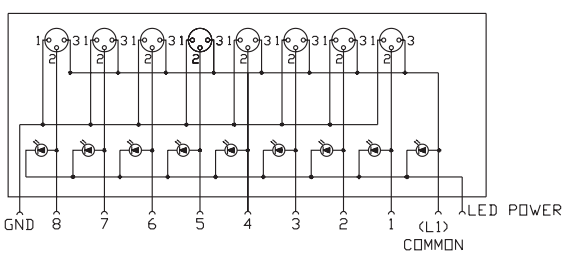
8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 11x18 AWG, foil shield and 20 AWG drain	Function Common (L1) LED Power (L2) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color WH BU / BK GN RD OG BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color BU WH / BK RD / BK GN / BK OG / BK	VBKB 80-X9-*
8 port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 11 conductors. Mates with CKBM 12-11-*	Function Common (L1) LED Power (L2) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Pin/Color 11 / WH 7 / BU/BK 9 / GN 10 / RD 1 / OG 12 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin/Color 2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	VBKB 80-X9-CS12

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams





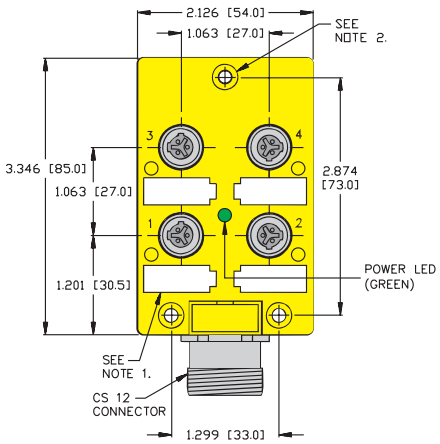
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Specifications

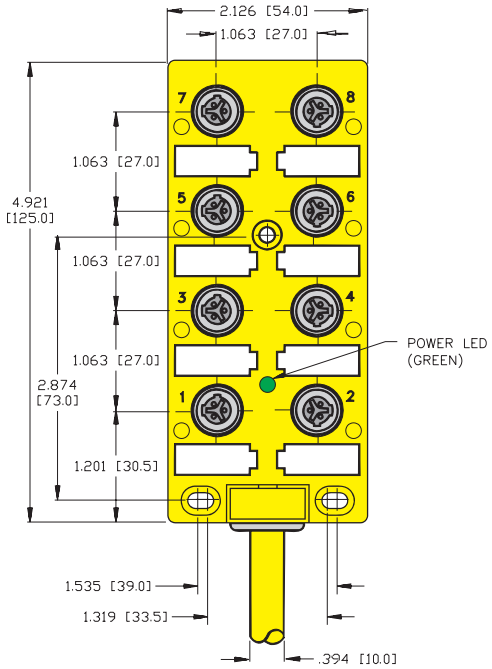
Housing:	Nylon	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon (Microfast)	**Protection:**	IEC IP67
Contacts:	Gold plated brass	**Cable Length:**	Standard cable length is nominal 5 meters. Other lengths available by request - consult factory
Thread Inserts:	Nickel plated brass		
Cable:	See table	**Accessories:**	(2) SB-CC closure caps and a VZ1 label kit included

Dimensions

4-Port

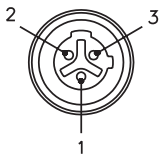
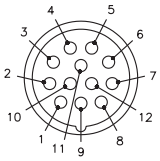


8-Port



Notes
Removable labels included.
Clearance holes for #8 screws (3 places).
Housings with integral cable: 23 mm in thickness.
Housings with quick disconnect: 33 mm thickness.
Green LED = Power on (center position).
Yellow LED = Signal (outer position).

Pinout

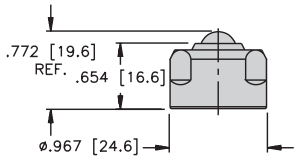
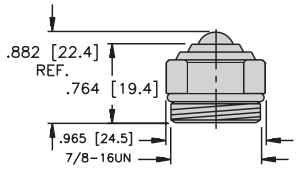
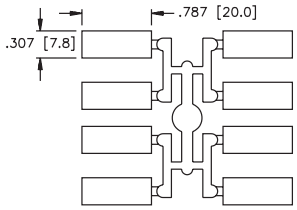
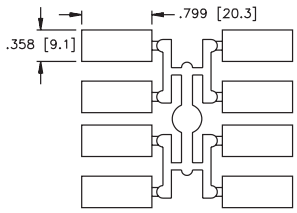
3-pin Microfast	12-pin Multifast®
Female	Male
	

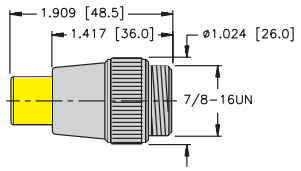
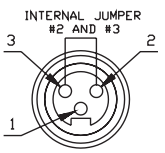
We reserve the right to make technical alterations without prior notice.

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

Junction Box Connectivity Products

Accessories

Drawing	Part Number	Features
	**RKF-MC**	Nickel plated brass, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	RKFV-MC	Stainless Steel, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	**RSF-MC**	Nickel plated brass, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFV-MC	Stainless Steel, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFK-MC	Nylon 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	**VZ 1**	Nylon, 8 white labels, 8x20 mm each, snap-in labels for Eurofast® and Microfast® junction boxes, valve plugs
	**VZ 12**	Nylon, 40 white labels, 9x20 mm each, snap-in labels for Eurofast junction boxes, valve plugs

Drawing	Part Number	Features	Pinout
	**RSM 30-J23**	Minifast®, 7/8-16 UN thread, 300 V 80 °C, jumper plug for use on unused inputs for series wired junction boxes	

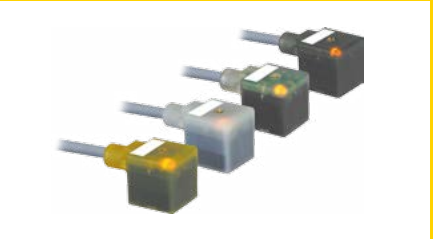
We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	T3
Cordsets	T4
Splitters	T40
Field Wireables	T42

Features

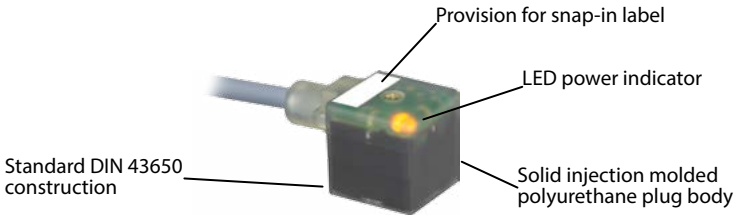
- Environmentally protected electrical junction for use with hydraulic and pneumatic solenoid valves
- Available in A, B, I and C designs
- Options for wiring with LED, MOV or diode
- Provides rapid change out

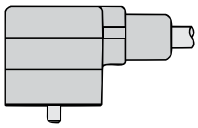


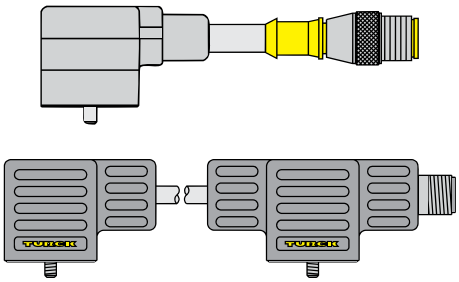
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

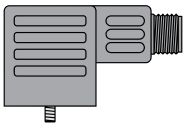
Valve Plug Connectivity

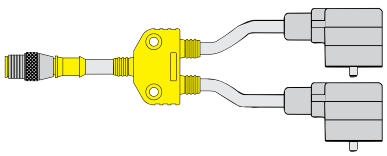
Valve Connector Products

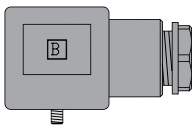


Cable Styles		
	**Type "A" (18 mm)** Straight Wired, Indicator LED, Indicator LED and MOV, Indicator LED and Diode - DC	**T4**
	Type "A" (18 mm) 3 Conductors + Ground Straight Wired, Indicator LED, Indicator LED and MOV	**T10**
	Type "B" (10 mm) Straight Wired, Indicator LED, Indicator LED and MOV, Indicator LED and Diode - DC	**T14**
	Type "I" (11 mm) Straight Wired, Indicator LED, Indicator LED and MOV, Indicator LED and Diode - DC	**T20**
	Type "C" (8 mm) Straight Wired, Indicator LED, Indicator LED and MOV, Indicator LED and Diode - DC	**T26**
	Type "C" (9.4 mm) Straight Wired, Indicator LED, Indicator LED and MOV, Indicator LED and Diode - DC	**T32**

Extension Styles		
	**Type "A" (18 mm)** with Eurofast®, Picofast®, Minifast® and Microfast® Connectors	**T6**
	Type "A" (18 mm) 3 Conductors + Ground with Eurofast Connector	**T12**
	Type "B" (10 mm) with Eurofast, Picofast, Minifast and Microfast Connectors	**T16**
	Type "I" (11 mm) with Eurofast, Picofast, Minifast and Microfast Connectors	**T22**
	Type "C" (8 mm) with Eurofast, Picofast, Minifast and Microfast Connectors	**T28**
	Type "C" (9.4 mm) with Eurofast, Minifast and Microfast Connectors	**T34**
	Double Ended Valve Connectors - Consult factory for availability	

Integral Connector Styles		
	**Type "A" (18 mm)** with Eurofast and Picofast Connectors	**T38**
	Type "B" (10 mm) and Type "I" (11 mm) with Picofast Connector	**T38**

2 Branch Molded Junctions with Valve Plugs		
	**Types "A", "B", "I" and "C"**	**T40**

Field Wireable Styles		
	**Types "A", "B", "I" and "C"**	**T42**

We reserve the right to make technical alterations without prior notice.

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

DIN 43650 Valve Cordset Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

V A S 22 - F 653 - *M /S..

DIN 43650 Valve Cordset

T	=	cable exit on ground side
V	=	cable exit opposite ground side
H	=	cable exit opposite ground side on top of plug

Housing Style

A	=	type "A" (27.5 x 27.5 mm) 18 mm contact spacing
B	=	type "B" (21.5 x 28 mm) 10 mm contact spacing
I	=	type "I" (21.5 x 28 mm) 11 mm contact spacing
C8	=	type "C" (16 x 16 mm 8 mm contact spacing
C9	=	type "C" (16 x 16 mm) 9.4 mm contact spacing

Housing Color

G	=	Translucent grey
S	=	Translucent black
Y	=	Translucent yellow
(blank)	=	Clear

Designator for Receptacle

2	=	2 conductors, 1 ground
21	=	2 conductors, ground not connected
22	=	2 conductors, 1 ground, ground contacts parallel wired
3	=	3 conductors, 1 ground
4	=	3 conductors, 1 ground, additional wire for dual LED

Wiring

A	=	straight through . . . . 0-220 VAC/DC
B	=	yellow LED . . . . . 24-48 VAC/DC
C	=	yellow LED . . . . . 110-220 VAC/DC
D	=	yellow LED/MOV. . . . 24-48 VAC/DC
E	=	yellow LED/MOV. . . . 110-220 VAC/DC
F	=	yellow LED/Diode . . . 24-48 VDC
K	=	two color LED for change over to switch . . . . . 24 VDC
L	=	yellow LED . . . . . 24 VAC/DC
M	=	yellow LED . . . . . 48 VAC/DC
N	=	yellow LED . . . . . 110 VAC/DC
P	=	yellow LED/MOV. . . . . 24 VAC/DC
R	=	yellow LED/MOV . . . . 48 VAC/DC
red	=	switch open position
green	=	switch closed position

Number of Wires / AWG / Color Codes

(blank)	=	adapter	644	=	4x18 AWG BN, BU, BK, WH
W	=	field wireable connector	653	=	3x18 AWG BK, BK, GN/YE
544	=	4x18 AWG BN, WH, BK, BU	654	=	3x18 AWG BN, BU, BK
587	=	3x24 AWG BN, BU, BK	658	=	3x18 AWG RD/BK, RD/WH, GN
580	=	4x18 AWG BN, WH, BK, BU	669	=	3x18 AWG BK, BK, GN/YE
642	=	3x24 AWG BN, BU, BK			

Connection Type / Length in Meters

(blank)	=	field wireable
FS 5.3	=	integrated M12 Eurofast® connector
V1131	=	integrated M8 Picofast® connector

Insertion Point of Extension Cable Second Prefix*

* Valve connector listed first, other connector second
Example: **VAS 22-F653-1M-RS 5.3T**

Varieties

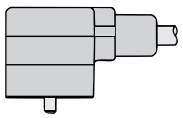
/S ..	=	consult factory, special
/S810	=	Longer mounting screw

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

Valve Plug Connectivity

Valve Connectors, Type "A" (18 mm)

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductors + Ground, Ground Contacts Parallel Wired**



Type A

"A" Style Valve Connectors, Standard Color Code

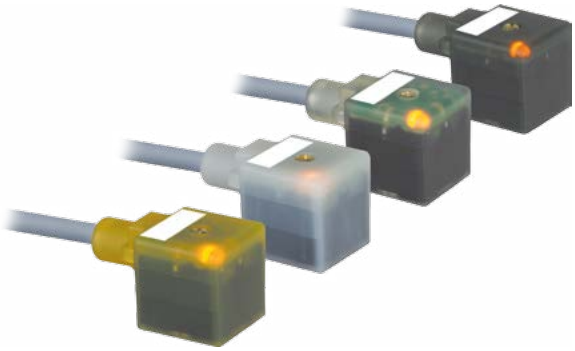
Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VAS 22-A653-*M ---- ----	---- VAS 22-B653-*M VAS 22-C653-*M	---- VAS 22-D653-*M VAS 22-E653-*M	---- VAS 22-F653-*M ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VAS 22-A669-*M ---- ----	---- VAS 22-B669-*M VAS 22-C669-*M	---- VAS 22-D669-*M VAS 22-E669-*M	---- VAS 22-F669-*M ----

"A" Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Small diameter PVC	3/24 AWG, Yellow PVC 105 °C 4.4 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VAS 22-A642-*M ---- ----	---- VAS 22-B642-*M VAS 22-C642-*M	---- VAS 22-D642-*M VAS 22-E642-*M	---- VAS 22-F642-*M ----
Small diameter TPU	3/24 AWG, Black TPU 90 °C 4.2 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VAS 22-A587-*M ---- ----	---- VAS 22-B587-*M VAS 22-C587-*M	---- VAS 22-D587-*M VAS 22-E587-*M	---- VAS 22-F587-*M ----

* Length in meters.

We reserve the right to make technical alterations without prior notice.



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

Valve Connectors, Type "A" (18 mm)

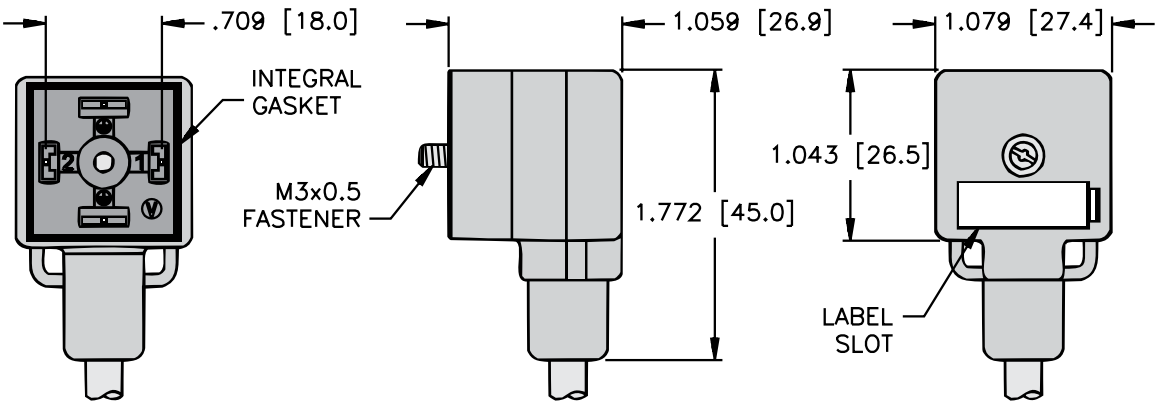
Specifications

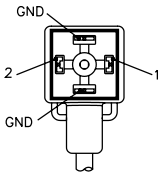
Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 2, 5 and 10 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

Options: Grey connector body available (special order), change part number VAS .. or VAY .. to VAG ..
For other combinations or options, consult factory.

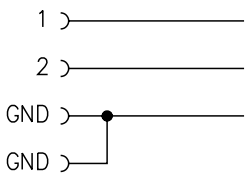
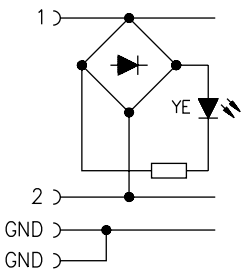
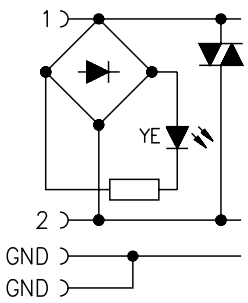
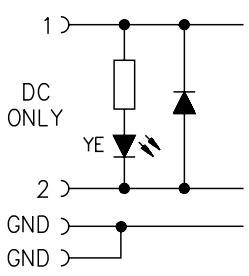
Dimensions

Type A





Wiring Diagrams

Straight Wired (A)	Indicator LED (B,C)	Indicator LED and MOV (D,E)	Indicator LED and Diode - DC (F)
			

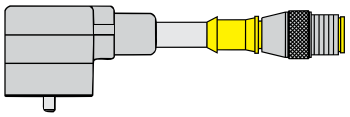
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "A" (18 mm) Extensions

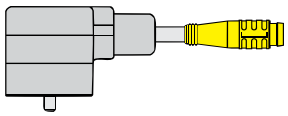
- **Eurofast® and Picofast® Connectors**
- **Wired for Use with Junction Box**
- **2 Conductors + Ground, (Eurofast), Ground Contacts Parallel Wired**



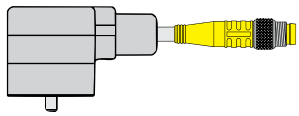
Eurofast Extension

"A" Style Valve Connectors, Eurofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG Grey PVC 105 °C 6.2 mm OD	0-220 24-48 110-220	VAS 22-A653-*M-RS 5.3T ---- ----	---- VAS 22-B653-*M-RS 5.3T VAS 22-C653-*M-RS 5.3T	---- VAS 22-D653-*M-RS 5.3T VAS 22-E653-*M-RS 5.3T	---- VAS 22-F653-*M-RS 5.3T ----
Standard duty TPU	3/18 AWG Grey TPU 90 °C 6.0 mm OD	0-220 24-48 110-220	VAS 22-A669-*M-RS 5.3T ---- ----	---- VAS 22-B669-*M-RS 5.3T VAS 22-C669-*M-RS 5.3T	---- VAS 22-D669-*M-RS 5.3T VAS 22-E669-*M-RS 5.3T	---- VAS 22-F669-*M-RS 5.3T ----



Picofast Snap Extension

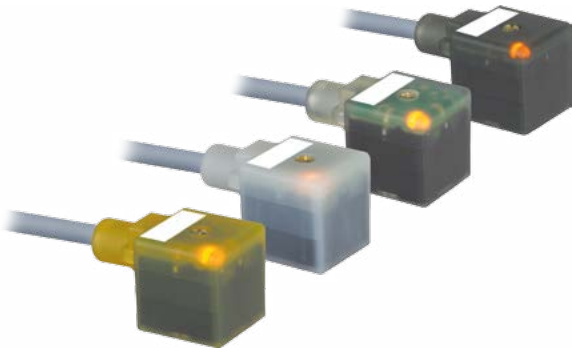


Picofast Threaded Extension

"A" Style Valve Connectors, Picofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Small diameter, PVC Snap lock	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VAS 22-A642-*M-PSG 3 ---- ----	---- VAS 22-B642-*M-PSG 3 ----	---- VAS 22-D642-*M-PSG 3 ----	---- VAS 22-F642-*M-PSG 3 ----
Small diameter, TPU Snap lock	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VAS 22-A587-*M-PSG 3 ---- ----	---- VAS 22-B587-*M-PSG 3 ----	---- VAS 22-D587-*M-PSG 3 ----	---- VAS 22-F587-*M-PSG 3 ----
Small diameter, PVC Threaded	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VAS 22-A642-*M-PSG 3M ---- ----	---- VAS 22-B642-*M-PSG 3M ----	---- VAS 22-D642-*M-PSG 3M ----	---- VAS 22-F642-*M-PSG 3M ----
Small diameter, TPU Threaded	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VAS 22-A587-*M-PSG 3M ---- ----	---- VAS 22-B587-*M-PSG 3M ----	---- VAS 22-D587-*M-PSG 3M ----	---- VAS 22-F587-*M-PSG 3M ----

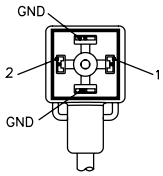
* Length in meters.

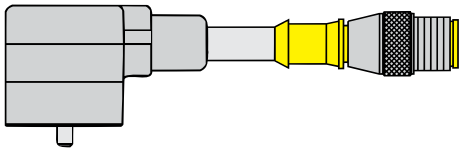


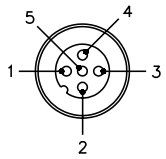
We reserve the right to make technical alterations without prior notice.

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

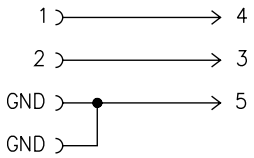
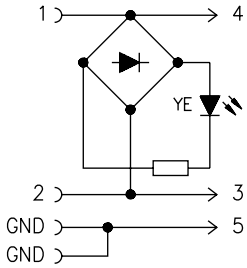
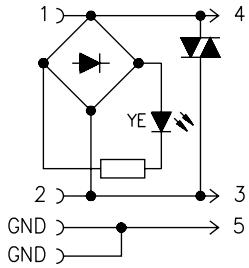
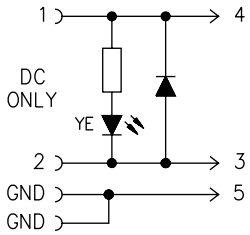
Type "A" (18 mm) Valve Connector to Eurofast® Extension



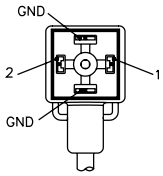


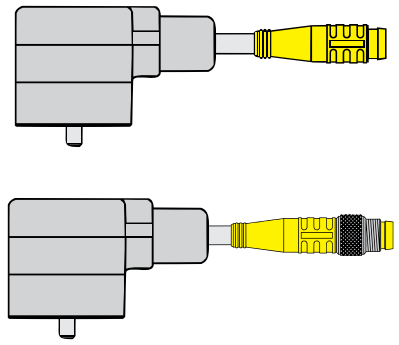


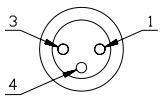
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

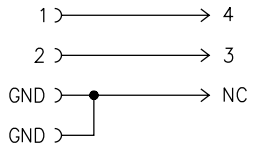
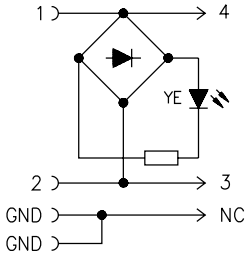
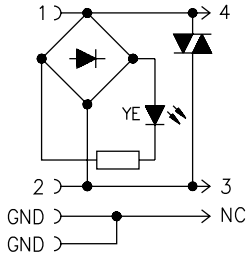
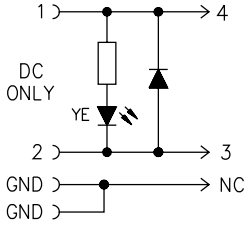
Type "A" (18 mm) Valve Connector to Eurofast Extension







Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

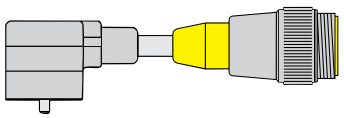
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "A" (18 mm) Extensions

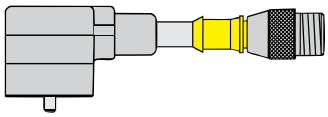
- **Minifast® and Microfast® Connectors**
- **Available with PVC and TPU Jackets**
- **18 AWG**
- **2 Conductors + Ground, Ground Contacts Parallel Wired**



Minifast Extension

"A" Style Valve Connectors, Minifast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VAS 22-A653-*M-RSM 30 ---- ----	---- VAS 22-B653-*M-RSM 30 VAS 22-C653-*M-RSM 30	---- VAS 22-D653-*M-RSM 30 VAS 22-E653-*M-RSM 30
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VAS 22-A669-*M-RSM 30 ---- ----	---- VAS 22-B669-*M-RSM 30 VAS 22-C669-*M-RSM 30	---- VAS 22-D669-*M-RSM 30 VAS 22-E669-*M-RSM 30



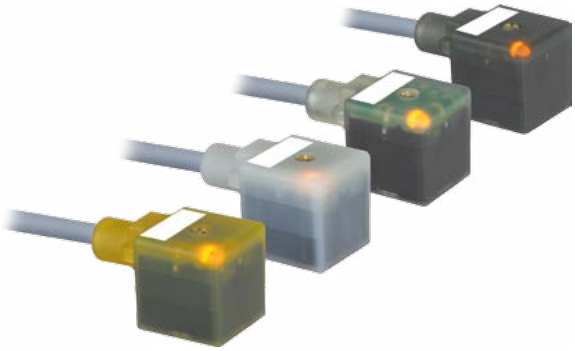
Microfast Extension

"A" Style Valve Connectors, Microfast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VAS 22-A653-*M-SB 3T ---- ----	---- VAS 22-B653-*M-SB 3T VAS 22-C653-*M-SB 3T	---- VAS 22-D653-*M-SB 3T VAS 22-E653-*M-SB 3T
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24-48 110-220	VAS 22-A669-*M-SB 3T ---- ----	---- VAS 22-B669-*M-SB 3T VAS 22-C669-*M-SB 3T	---- VAS 22-D669-*M-SB 3T VAS 22-E669-*M-SB 3T

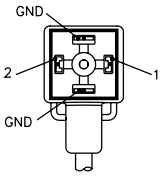
* Length in meters.

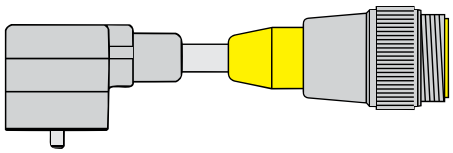
We reserve the right to make technical alterations without prior notice.

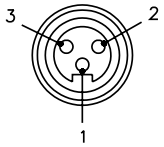


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

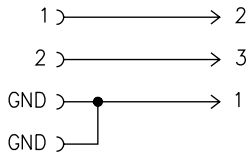
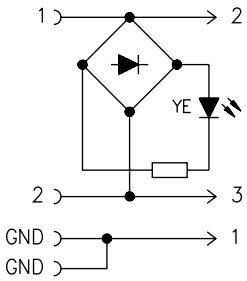
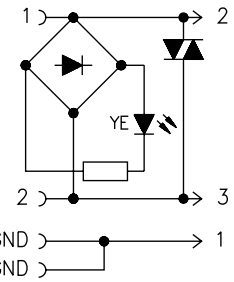
Type "A" (18 mm) Valve Connector to Minifast® Extension



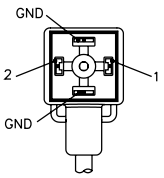


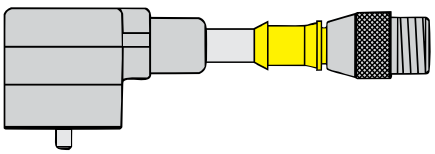


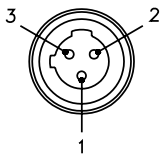
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

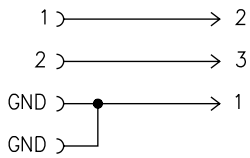
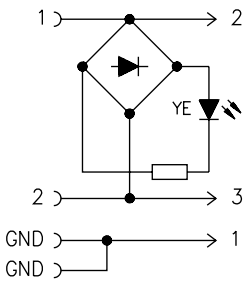
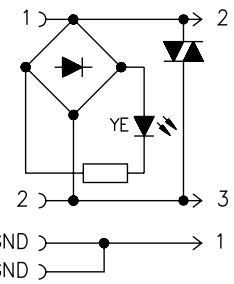
Type "A" (18 mm) Valve Connector to Microfast® Extension







Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

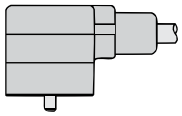
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors Type "A" (18 mm), 3 Conductors + Ground

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **3 Conductors + Ground**



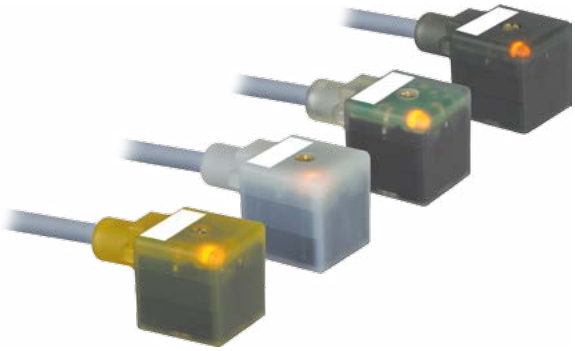
Type A

"A" Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	4/18 AWG, Grey PVC 105 °C 6.7 mm OD	1. BN 2. BU 3. WH Gnd - BK	0-220 24-48 110-220	VAS 3-A580-*M - - - - - - - -	- - - - VAS 3-B580-*M VAS 3-C580-*M	- - - - VAS 3-D580-*M VAS 3-E580-*M
Standard duty TPU	4/18 AWG, Yellow TPU 90 °C 7.2 mm OD	1. BN 2. BU 3. WH Gnd - BK	0-220 24-48 110-220	VAS 3-A544-*M - - - - - - - -	- - - - VAS 3-B544-*M VAS 3-C544-*M	- - - - VAS 3-D544-*M VAS 3-E544-*M

* Length in meters.

We reserve the right to make technical alterations without prior notice.



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

Valve Connectors Type "A" (18 mm), 3 Conductors + Ground

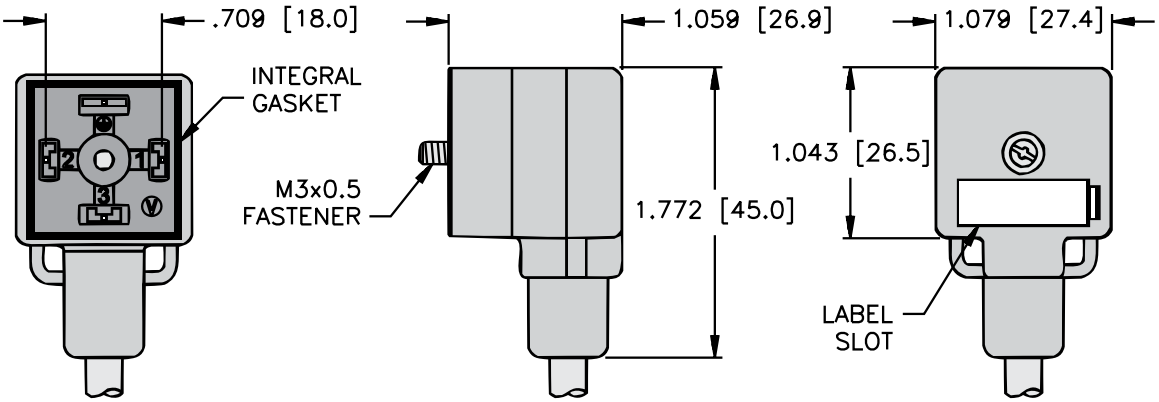
Specifications

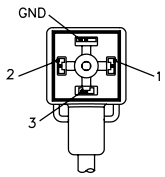
Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 2, 5 and 10 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

Options: Grey connector body available (special order), change part number VAS .. or VAY .. to VAG ..
For other combinations or options, consult factory.

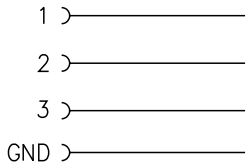
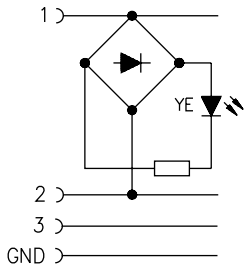
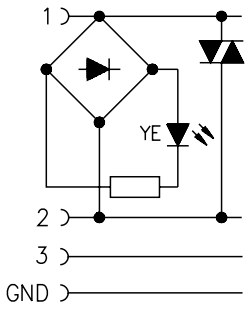
Dimensions

Type A





Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

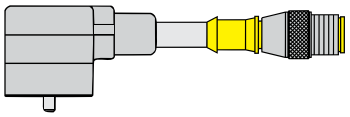
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "A" (18 mm) Extensions

- **Eurofast® Connectors**
- **Available with PVC and TPU Jackets**
- **18 AWG**
- **3 Conductors + Ground**



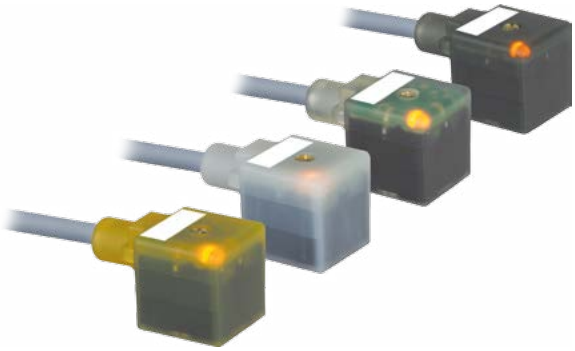
"A" Style Valve Connectors, Eurofast Extension

Eurofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	4/18 AWG, Grey PVC 105 °C 6.7 mm OD Black Body	0-220 24-48 110-220	VAS 3-A580-*M-RSC 5.42T - - - - - - - -	- - - - VAS 3-B580-*M-RSC 5.42T VAS 3-C580-*M-RSC 5.42T	- - - - VAS 3-D580-*M-RSC 5.42T VAS 3-E580-*M-RSC 5.42T
Standard duty TPU	4/18 AWG, Yellow TPU 90 °C 7.2 mm OD Black Body	0-220 24-48 110-220	VAS 3-A544-*M-RSC 5.42T - - - - - - - -	- - - - VAS 3-B544-*M-RSC 5.42T VAS 3-C544-*M-RSC 5.42T	- - - - VAS 3-D544-*M-RSC 5.42T VAS 3-E544-*M-RSC 5.42T

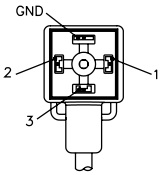
* Length in meters.

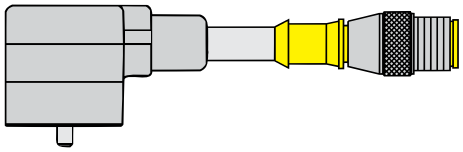
We reserve the right to make technical alterations without prior notice.

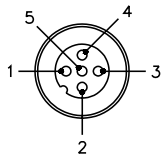


Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

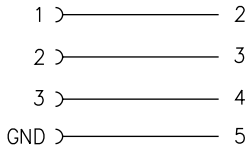
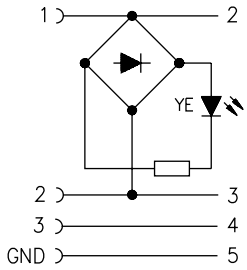
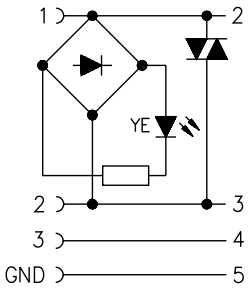
Type "A" (18 mm) Valve Connector to Eurofast® Extension







Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

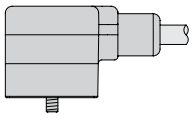
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "B" (10 mm)

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductors + Ground**



Type B

"B" Style Valve Connectors, Standard Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VBS 2-A653-*M ---- ----	---- VBS 2-B653-*M VBS 2-C653-*M	---- VBS 2-D653-*M VBS 2-E653-*M	---- VBS 2-F653-*M ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VBS 2-A669-*M ---- ----	---- VBS 2-B669-*M VBS 2-C669-*M	---- VBS 2-D669-*M VBS 2-E669-*M	---- VBS 2-F669-*M ----

"B" Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Small diameter PVC	3/24 AWG, Yellow PVC 105 °C 4.4 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VBS 2-A642-*M ---- ----	---- VBS 2-B642-*M VBS 2-C642-*M	---- VBS 2-D642-*M VBS 2-E642-*M	---- VBS 2-F642-*M ----
Small diameter TPU	3/24 AWG, Black TPU 90 °C 4.2 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VBS 2-A587-*M ---- ----	---- VBS 2-B587-*M VBS 2-C587-*M	---- VBS 2-D587-*M VBS 2-E587-*M	---- VBS 2-F587-*M ----

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

Valve Connectors, Type "B" (10 mm)

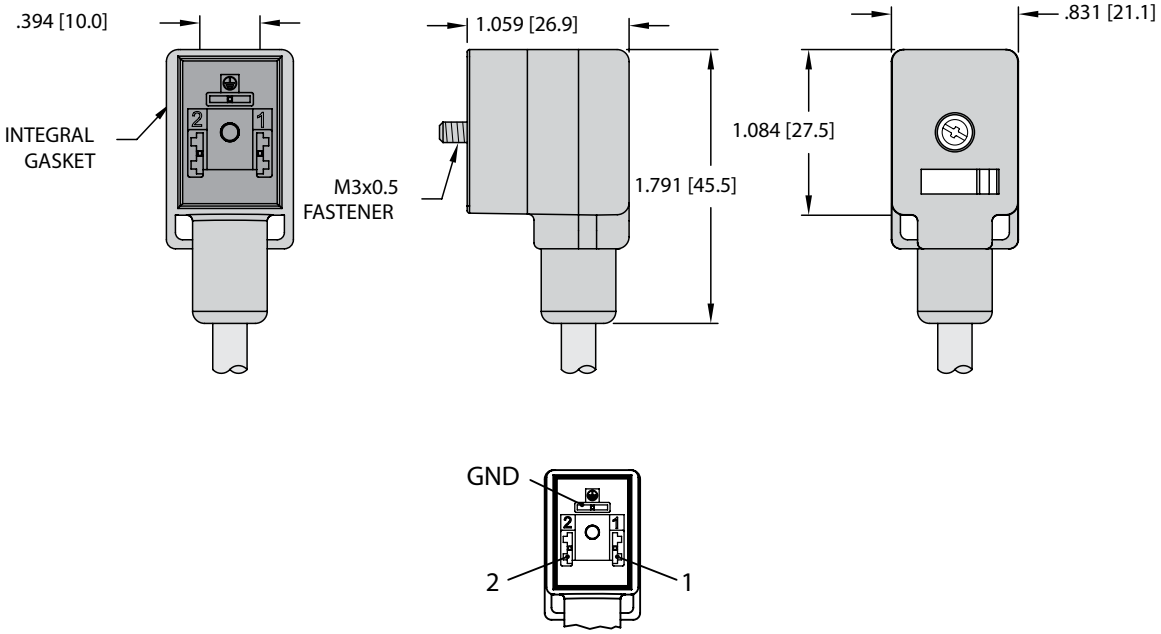
Specifications

Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 2, 5 and 10 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

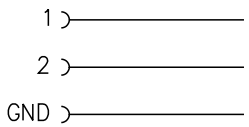
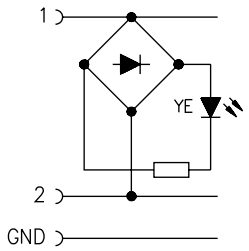
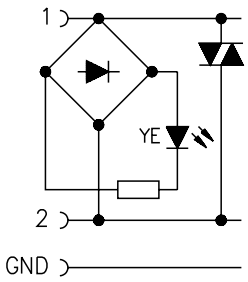
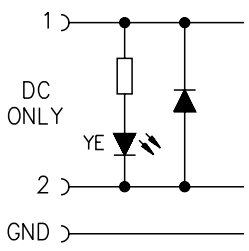
Options: Grey connector body available (special order), change part number VBS .. or VBY .. to VBG ..
To have cable exit on the same side as the ground pin, change part number from VBS .. to TBS ..
For other combinations or options, consult factory.

Dimensions

Type B



Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

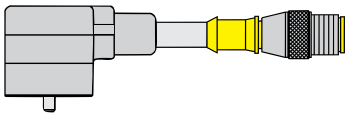
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "B" (10 mm) Extensions

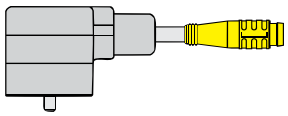
- **Available with PVC, TPU and Jackets**
- **18 and 24 AWG**
- **2 Conductors + Ground, Ground Contacts Parallel Wired**



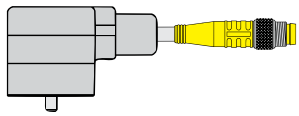
Eurofast Extension

"B" Style Valve Connectors, Eurofast® Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG Grey PVC 105 °C 6.2 mm OD	0-220 24-48 110-220	VBS 2-A653-*M-RS 5.3T ---- ----	---- VBS 2-B653-*M-RS 5.3T VBS 2-C653-*M-RS 5.3T	---- VBS 2-D653-*M-RS 5.3T VBS 2-E653-*M-RS 5.3T	---- VBS 2-F653-*M-RS 5.3T ----
Standard duty TPU	3/18 AWG Grey TPU 90 °C 6.0 mm OD	0-220 24-48 110-220	VBS 2-A669-*M-RS 5.3T ---- ----	---- VBS 2-B669-*M-RS 5.3T VBS 2-C669-*M-RS 5.3T	---- VBS 2-D669-*M-RS 5.3T VBS 2-E669-*M-RS 5.3T	---- VBS 2-F669-*M-RS 5.3T ----



Picofast Snap Extension



Picofast Threaded Extension

"B" Style Valve Connectors, Picofast® Extension

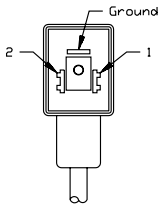
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Small diameter, PVC Snap lock	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VBS 2-A642-*M-PSG 3 ---- ----	---- VBS 2-B642-*M-PSG 3 ----	---- VBS 2-D642-*M-PSG 3 ----	---- VBS 2-F642-*M-PSG 3 ----
Small diameter, TPU Snap lock	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VBS 2-A587-*M-PSG 3 ---- ----	---- VBS 2-B587-*M-PSG 3 ----	---- VBS 2-D587-*M-PSG 3 ----	---- VBS 2-F587-*M-PSG 3 ----
Small diameter, PVC Threaded	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VBS 2-A642-*M-PSG 3M ---- ----	---- VBS 2-B642-*M-PSG 3M ----	---- VBS 2-D642-*M-PSG 3M ----	---- VBS 2-F642-*M-PSG 3M ----
Small diameter, TPU Threaded	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VBS 2-A587-*M-PSG 3M ---- ----	---- VBS 2-B587-*M-PSG 3M ----	---- VBS 2-D587-*M-PSG 3M ----	---- VBS 2-F587-*M-PSG 3M ----

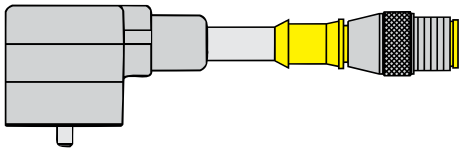
* Length in meters.

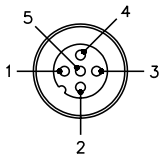
We reserve the right to make technical alterations without prior notice.

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

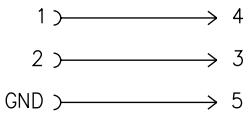
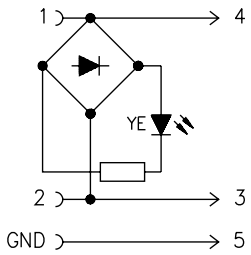
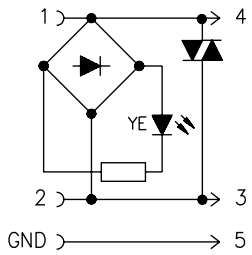
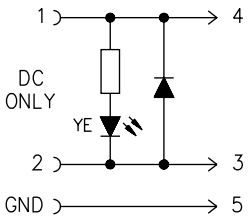
Type "B" (10 mm) Valve Connector to Eurofast® Extension



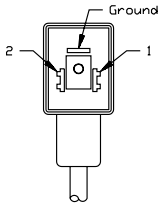


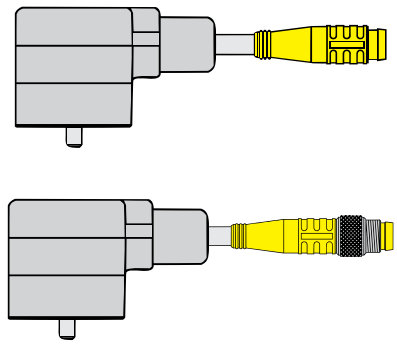


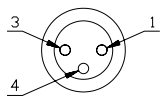
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

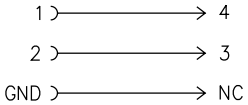
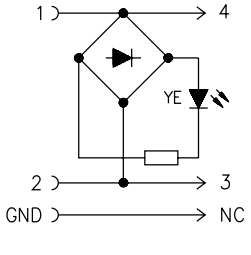
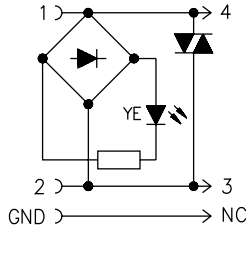
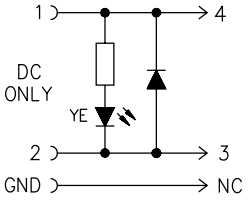
Type "B" (10 mm) Valve Connector to Picofast® Extension







Wiring Diagrams

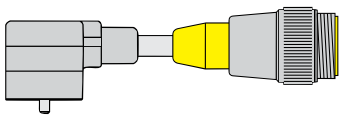
Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

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

Valve Plug Connectivity

Valve Connectors, Type "B" (10 mm) Extensions

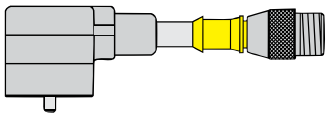
- **Minifast® and Microfast® Connectors**
- **18 AWG**
- **2 Conductors + Ground**



Minifast Extension

"B" Style Valve Connectors, Minifast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VBS 2-A653-*M-RSM 30 ---- ----	---- VBS 2-B653-*M-RSM 30 VBS 2-C653-*M-RSM 30	---- VBS 2-D653-*M-RSM 30 VBS 2-E653-*M-RSM 30
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24-48 110-220	VBS 2-A669-*M-RSM 30 ---- ----	---- VBS 2-B669-*M-RSM 30 VBS 2-C669-*M-RSM 30	---- VBS 2-D669-*M-RSM 30 VBS 2-E669-*M-RSM 30



Microfast Extension

"B" Style Valve Connectors, Microfast Extension

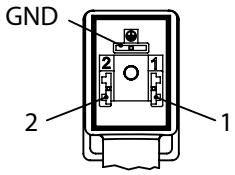
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VBS 2-A653-*M-SB 3T ---- ----	---- VBS 2-B653-*M-SB 3T VBS 2-C653-*M-SB 3T	---- VBS 2-D653-*M-SB 3T VBS 2-E653-*M-SB 3T
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24-48 110-220	VBS 2-A669-*M-SB 3T ---- ----	---- VBS 2-B669-*M-SB 3T VBS 2-C669-*M-SB 3T	---- VBS 2-D669-*M-SB 3T VBS 2-E669-*M-SB 3T

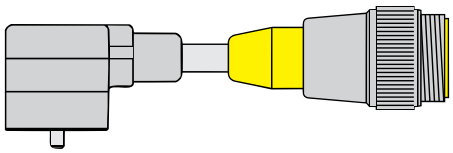
* Length in meters.

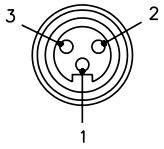
We reserve the right to make technical alterations without prior notice.

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

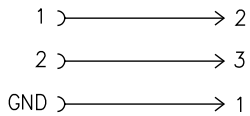
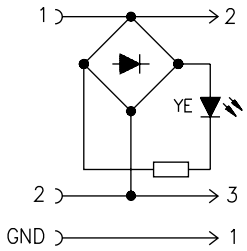
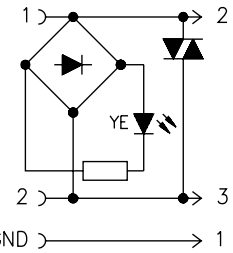
Type "B" (10 mm) Valve Connector to Minifast® Extension



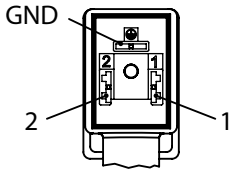


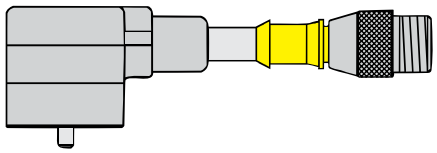


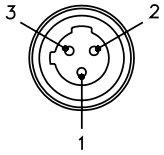
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

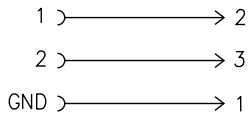
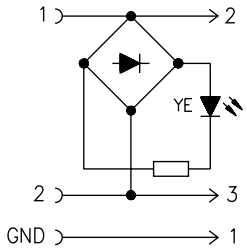
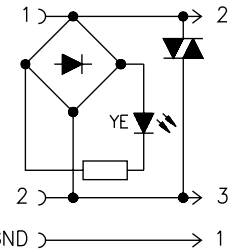
Type "B" (10 mm) Valve Connector to Microfast® Extension







Wiring Diagrams

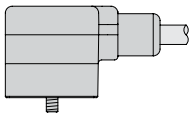
Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

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

Valve Plug Connectivity

Valve Connectors, Type "I" (11 mm)

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductors + Ground**



Type I

"I" Style Valve Connectors, Standard Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VIS 2-A653-*M ---- ----	---- VIS 2-B653-*M VIS 2-C653-*M	---- VIS 2-D653-*M VIS 2-E653-*M	---- VIS 2-F653-*M ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24-48 110-220	VIS 2-A669-*M ---- ----	---- VIS 2-B669-*M VIS 2-C669-*M	---- VIS 2-D669-*M VIS 2-E669-*M	---- VIS 2-F669-*M ----

"I" Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**	Indicator LED and Diode - DC only
Small diameter PVC	3/24 AWG, Yellow PVC 105 °C 4.4 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VIS 2-A642-*M ---- ----	---- VIS 2-B642-*M VIS 2-C642-*M	---- VIS 2-D642-*M VIS 2-E642-*M	---- VIS 2-F642-*M ----
Small diameter TPU	3/24 AWG, Black TPU 90 °C 4.2 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24-48 110-220	VIS 2-A587-*M ---- ----	---- VIS 2-B587-*M VIS 2-C587-*M	---- VIS 2-D587-*M VIS 2-E587-*M	---- VIS 2-F587-*M ----

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

Valve Connectors, Type "I" (11 mm)

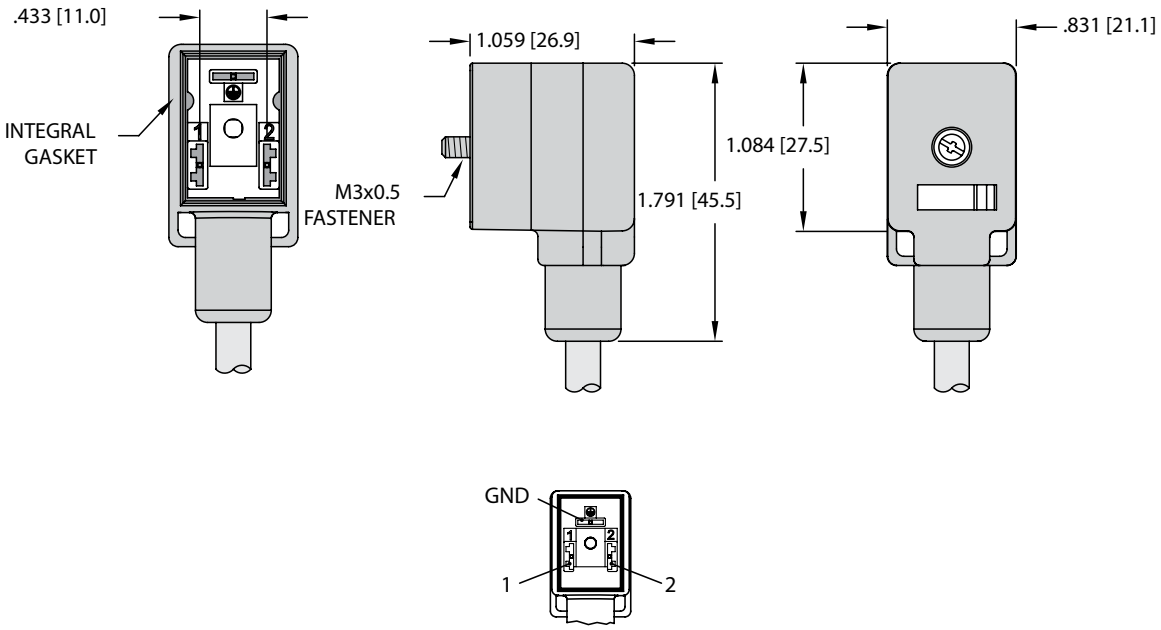
Specifications

Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 2, 5 and 10 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

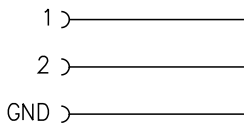
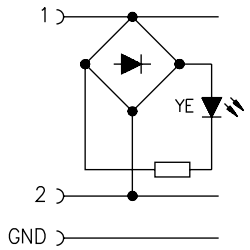
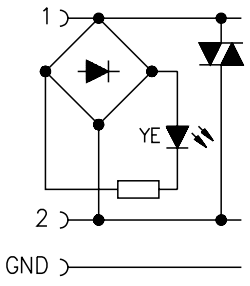
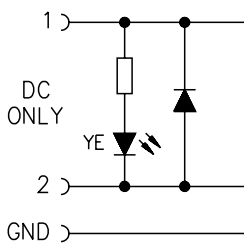
Options: Grey connector body available (special order), change part number VIS .. or VIY .. to VIG ..
To have cable exit on the same side as the ground pin, change part number from VIS .. to TIS ..
For other combinations or options, consult factory.

Dimensions

Type I



Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

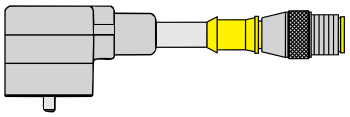
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "I" (11 mm) Extensions

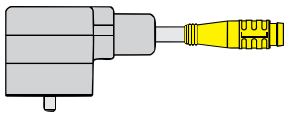
- **Eurofast® and Picofast® Connectors**
- **Wired for use with Junction Box**
- **2 Conductors + Ground**



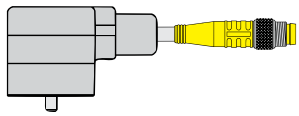
Eurofast Extension

"I" Style Valve Connectors, Eurofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Standard duty PVC	3/18 AWG Grey PVC 105 °C 6.2 mm OD	0-220 24-48 110-220	VIS 2-A653-*M-RS 5.3T ---- ----	---- VIS 2-B653-*M-RS 5.3T VIS 2-C653-*M-RS 5.3T	---- VIS 2-D653-*M-RS 5.3T VIS 2-E653-*M-RS 5.3T	---- VIS 2-F653-*M-RS 5.3T ----
Standard duty TPU	3/18 AWG Grey TPU 90 °C 6.0 mm OD	0-220 24-48 110-220	VIS 2-A669-*M-RS 5.3T ---- ----	---- VIS 2-B669-*M-RS 5.3T VIS 2-C669-*M-RS 5.3T	---- VIS 2-D669-*M-RS 5.3T VIS 2-E669-*M-RS 5.3T	---- VIS 2-F669-*M-RS 5.3T ----



Picofast Snap Extension



Picofast Threaded Extension

"I" Style Valve Connectors, Picofast Extension

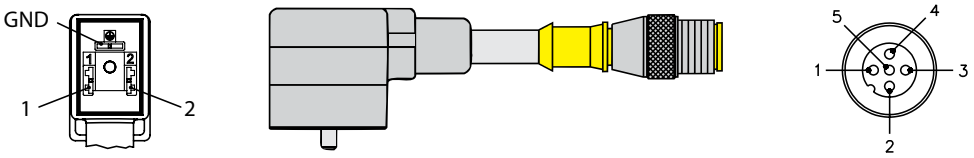
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV	Indicator LED and Diode - DC only
Small diameter, PVC Snap lock	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VIS 2-A642-*M-PSG 3 ---- ----	---- VIS 2-B642-*M-PSG 3 ----	---- VIS 2-D642-*M-PSG 3 ----	---- VIS 2-F642-*M-PSG 3 ----
Small diameter, TPU Snap lock	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VIS 2-A587-*M-PSG 3 ---- ----	---- VIS 2-B587-*M-PSG 3 ----	---- VIS 2-D587-*M-PSG 3 ----	---- VIS 2-F587-*M-PSG 3 ----
Small diameter, PVC Threaded	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24-48 110-220	VIS 2-A642-*M-PSG 3M ---- ----	---- VIS 2-B642-*M-PSG 3M ----	---- VIS 2-D642-*M-PSG 3M ----	---- VIS 2-F642-*M-PSG 3M ----
Small diameter, TPU Threaded	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24-48 110-220	VIS 2-A587-*M-PSG 3M ---- ----	---- VIS 2-B587-*M-PSG 3M ----	---- VIS 2-D587-*M-PSG 3M ----	---- VIS 2-F587-*M-PSG 3M ----

* Length in meters.

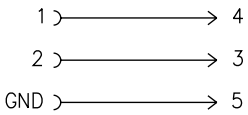
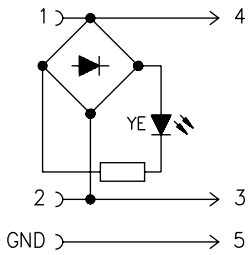
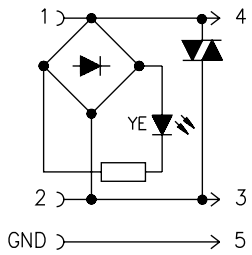
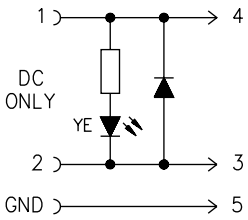
We reserve the right to make technical alterations without prior notice.

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

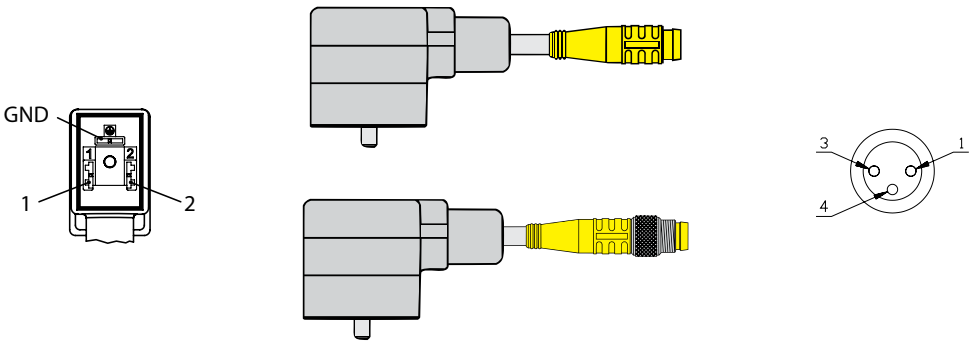
Type "I" (11 mm) Valve Connector to Eurofast® Extension



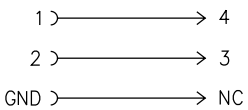
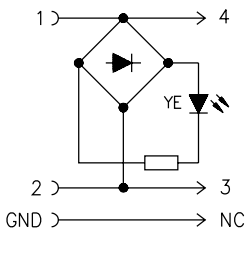
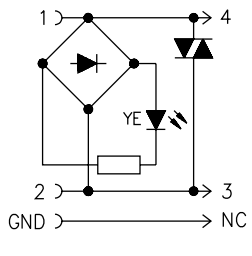
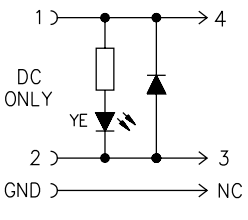
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

Type "I" (11 mm) Valve Connector to Picofast® Extension



Wiring Diagrams

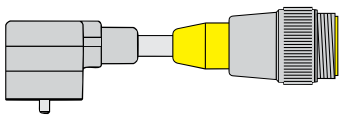
Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)	Indicator LED and Diode - DC (F)
			

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

Valve Plug Connectivity

Valve Connectors, Type "I" (11 mm) Extensions

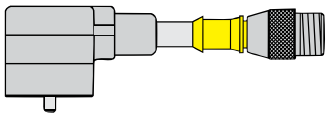
- **Minifast® and Microfast® Connectors**
- **Available with PVC and TPU**
- **18 AWG**
- **2 Conductors + Ground (Eurofast)**



Minifast Extension

"I" Style Valve Connectors, Minifast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VIS 2-A653-*M-RSM 30 ---- ----	---- VIS 2-B653-*M-RSM 30 VIS 2-C653-*M-RSM 30	---- VIS 2-D653-*M-RSM 30 VIS 2-E653-*M-RSM 30
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24-48 110-220	VIS 2-A669-*M-RSM 30 ---- ----	---- VIS 2-B669-*M-RSM 30 VIS 2-C669-*M-RSM 30	---- VIS 2-D669-*M-RSM 30 VIS 2-E669-*M-RSM 30



Microfast Extension

"I" Style Valve Connectors, Microfast Extension

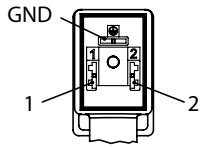
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV**
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24-48 110-220	VIS 2-A653-*M-SB 3T ---- ----	---- VIS 2-B653-*M-SB 3T VIS 2-C653-*M-SB 3T	---- VIS 2-D653-*M-SB 3T VIS 2-E653-*M-SB 3T
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24-48 110-220	VIS 2-A669-*M-SB 3T ---- ----	---- VIS 2-B669-*M-SB 3T VIS 2-C669-*M-SB 3T	---- VIS 2-D669-*M-SB 3T VIS 2-E669-*M-SB 3T

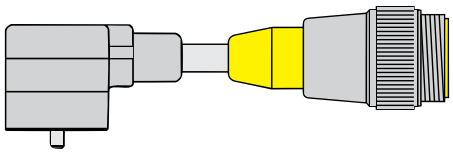
* Length in meters.

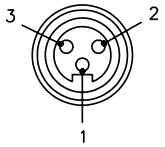
We reserve the right to make technical alterations without prior notice.

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

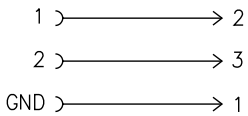
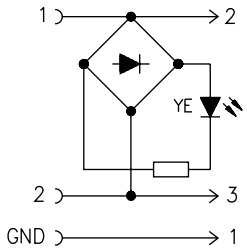
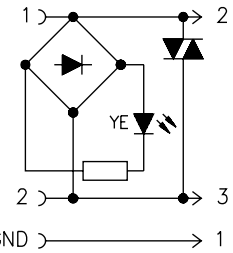
Type "I" (11 mm) Valve Connector to Minifast® Extension



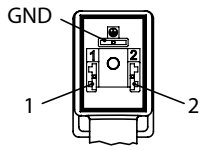


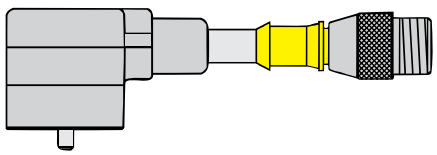


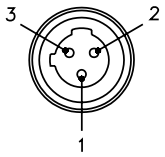
Wiring Diagrams

Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

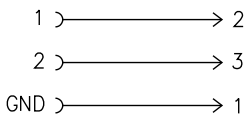
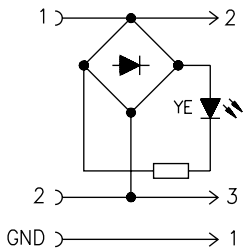
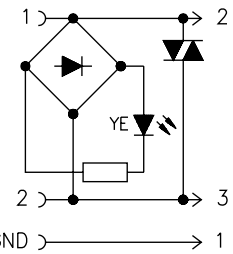
Type "I" (11 mm) Valve Connector to Microfast® Extension







Wiring Diagrams

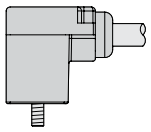
Straight Wired (A)	Indicator LED (B, C)	Indicator LED and MOV (D, E)
		

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

Valve Plug Connectivity

Valve Connectors, Type "C" (8 mm)

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductor + Ground**



Type C

"C" (8.0 mm) Style Valve Connectors, Standard Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24 48 110	TC8S 2-A653-*M - - - - - - - -	- - - - TC8S 2-L653-*M TC8S 2-M653-*M TC8S 2-N653-*M	- - - - TC8S 2-P653-* - - - - - - - -
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	1. BK 1 2. BK 2 Gnd - GN/YE	0-220 24 48 110	TC8S 2-A669-*M - - - - - - - -	- - - - TC8S 2-L669-*M TC8S 2-M669-*M TC8S 2-N669-*M	- - - - TC8S 2-P669-* - - - - - - - -

"C" (8.0 mm) Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Small diameter PVC	3/24 AWG, Yellow PVC 105 °C 4.4 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24 48 110	TC8S 2-A642-*M - - - - - - - -	- - - - TC8S 2-L642-*M TC8S 2-M642-*M TC8S 2-N642-*M	- - - - TC8S 2-P642-* - - - - - - - -
Small diameter TPU	3/24 AWG, Black TPU 90 °C 4.2 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24 48 110	TC8S 2-A587-*M - - - - - - - -	- - - - TC8S 2-L587-*M TC8S 2-M587-*M TC8S 2-N587-*M	- - - - TC8S 2-P587-* - - - - - - - -

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

Valve Connectors, Type "C" (8 mm)

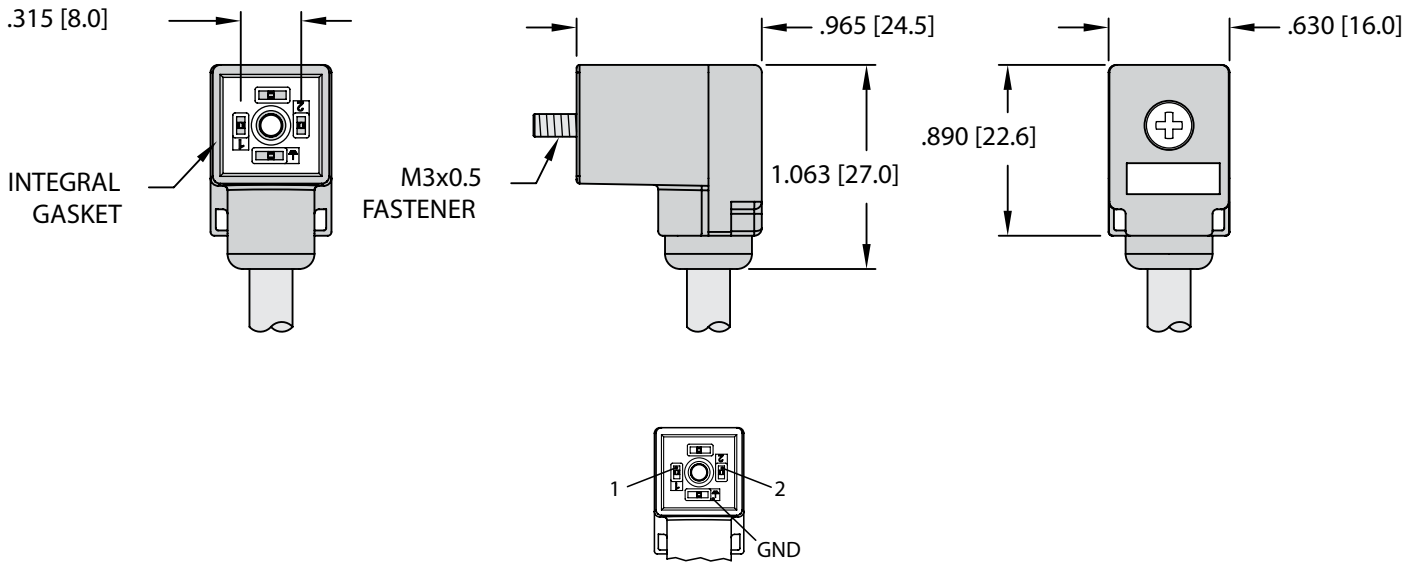
Specifications

Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 5 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

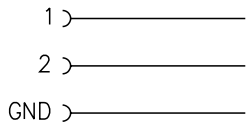
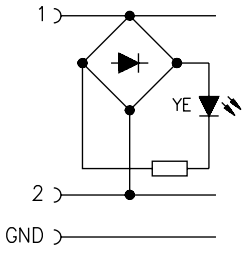
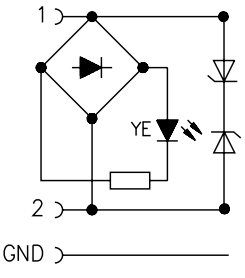
Options: Grey connector body available (special order), change part number TC8S… To TC8G…
For other combinations or options, consult factory.

Dimensions

Type C (8 mm)



Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

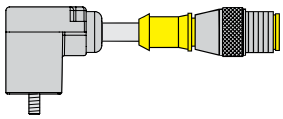
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "C" (8 mm) Extensions

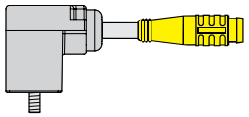
- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductor + Ground (Eurofast®)**



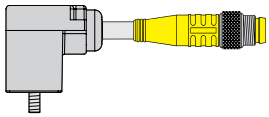
Eurofast Extension

"C" (8.0 mm) Style Valve Connectors, Eurofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC8S 2-A653-*M-RS 5.3T ---- ---- ----	---- TC8S 2-L653-*M-RS 5.3T TC8S 2-M653-*M-RS 5.3T TC8S 2-N653-*M-RS 5.3T	---- TC8S 2-P653-*M-RS 5.3T ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC8S 2-A669-*M-RS 5.3T ---- ---- ----	---- TC8S 2-L669-*M-RS 5.3T TC8S 2-M669-*M-RS 5.3T TC8S 2-N669-*M-RS 5.3T	---- TC8S 2-P669-*M-RS 5.3T ---- ----



Picofast Snap Extension



Picofast Threaded Extension

"C" (8.0 mm) Style Valve Connectors, Picofast® Extension

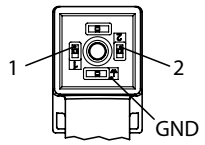
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Small diameter, PVC Snap Lock	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24 48	TC8S 2-A642-*M-PSG 3 ---- ----	---- TC8S 2-L642-*M-PSG 3 TC8S 2-M642-*M-PSG 3	---- TC8S 2-P642-*M-PSG 3 ----
Small diameter, TPU Snap Lock	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24 48	TC8S 2-A587-*M-PSG 3 ---- ----	---- TC8S 2-L587-*M-PSG 3 TC8S 2-M587-*M-PSG 3	---- TC8S 2-P587-*M-PSG 3 ----
Small diameter, PVC Threaded	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24 48	TC8S 2-A642-*M-PSG 3M ---- ----	---- TC8S 2-L642-*M-PSG 3M TC8S 2-M642-*M-PSG 3M	---- TC8S 2-P642-*M-PSG 3M ----
Small diameter, TPU Threaded	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24 48	TC8S 2-A587-*M-PSG 3M ---- ----	---- TC8S 2-L587-*M-PSG 3M TC8S 2-M587-*M-PSG 3M	---- TC8S 2-P587-*M-PSG 3M ----

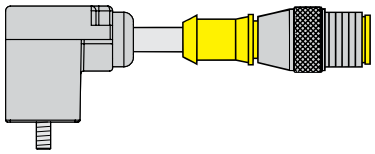
* Length in meters.

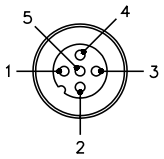
We reserve the right to make technical alterations without prior notice.

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

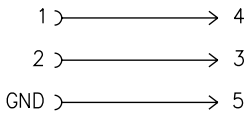
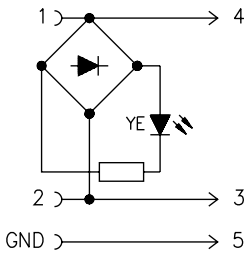
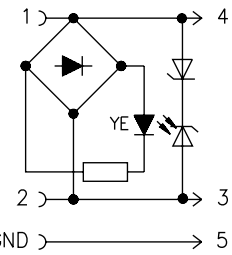
Type "C" (8 mm) Valve Connector to Eurofast® Extension



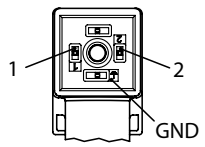


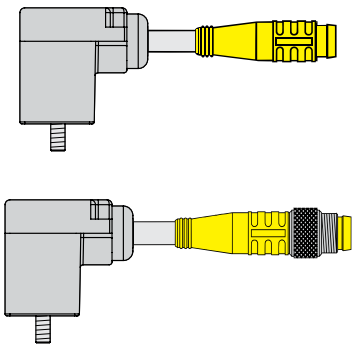


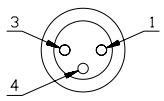
Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

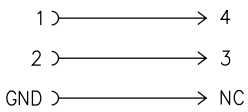
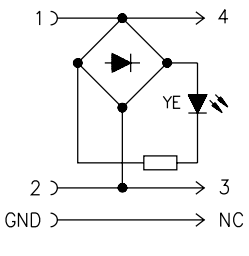
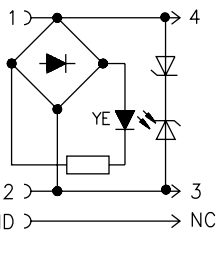
Type "C" (8 mm) Valve Connector to Picofast® Extension







Wiring Diagrams

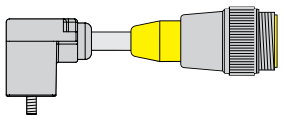
Straight Wired (A)	Indicator LED (L, M)	Indicator LED and Suppressor Diodes (P)
		

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

Valve Plug Connectivity

Valve Connectors, Type "C" (8 mm) Extensions

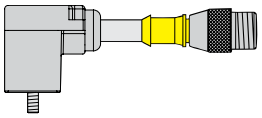
- **Available with PVC and TPU Jackets**
- **18 AWG**
- **2 Conductor + Ground**



Minifast Extension

"C" (8.0 mm) Style Valve Connectors, Minifast® Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC8S 2-A653-*M-RSM 30 ---- ---- ----	---- TC8S 2-L653-*M-RSM 30 TC8S 2-M653-*M-RSM 30 TC8S 2-N653-*M-RSM 30	---- TC8S 2-P653-*M-RSM 30 ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC8S 2-A669-*M-RSM 30 ---- ---- ----	---- TC8S 2-L669-*M-RSM 30 TC8S 2-M669-*M-RSM 30 TC8S 2-N669-*M-RSM 30	---- TC8S 2-P669-*M-RSM 30 ---- ----



Microfast Extension

"C" (8.0 mm) Style Valve Connectors, Microfast® Extension

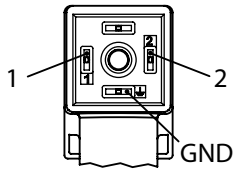
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC8S 2-A653-*M-SB 3T ---- ---- ----	---- TC8S 2-L653-*M-SB 3T TC8S 2-M653-*M-SB 3T TC8S 2-N653-*M-SB 3T	---- TC8S 2-P653-*M-SB 3T ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC8S 2-A669-*M-SB 3T ---- ---- ----	---- TC8S 2-L669-*M-SB 3T TC8S 2-M669-*M-SB 3T TC8S 2-N669-*M-SB 3T	---- TC8S 2-P669-*M-SB 3T ---- ----

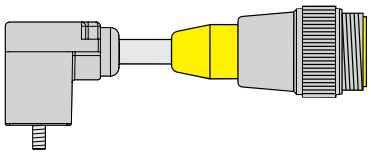
* Length in meters.

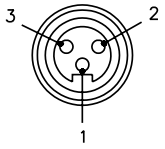
We reserve the right to make technical alterations without prior notice.

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

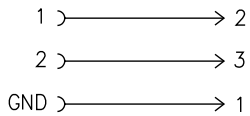
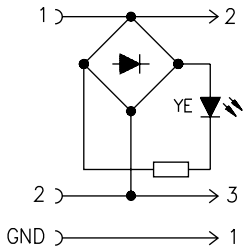
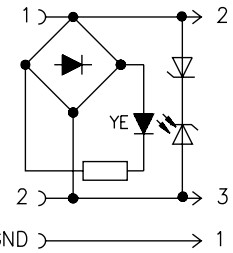
Type "C" (8 mm) Valve Connector to Minifast® Extension



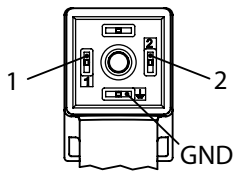


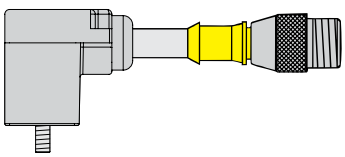


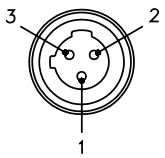
Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M)	Indicator LED and Suppressor Diodes (P)
		

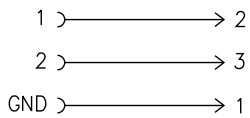
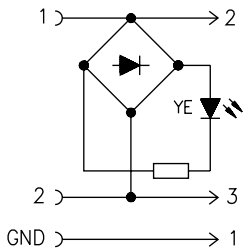
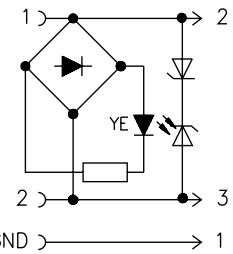
Type "C" (8 mm) Valve Connector Microfast® Extension







Wiring Diagrams

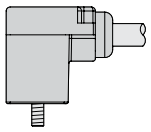
Straight Wired (A)	Indicator LED (L, M)	Indicator LED and Suppressor Diodes (P)
		

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

Valve Plug Connectivity

Valve Connectors, Type "C" (9.4 mm)

- **Available with PVC and TPU Jackets**
- **18 and 24 AWG**
- **2 Conductor + Ground**



Type C

"C" (9.4 mm) Style Valve Connectors, Standard Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	1. BK 1 2. BK 2 Gnd-GN/YE	0-220 24 48 110	TC9S 2-A653-*M ---- ---- ----	---- TC9S 2-L653-*M TC9S 2-M653-*M TC9S 2-N653-*M	---- TC9S 2-P653-* ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	1. BK 1 2. BK 2 Gnd-GN/YE	0-220 24 48 110	TC9S 2-A669-*M ---- ---- ----	---- TC9S 2-L669-*M TC9S 2-M669-*M TC9S 2-N669-*M	---- TC9S 2-P669-* ---- ----

"C" (9.4 mm) Style Valve Connectors, IEC Color Code

Application	Cable Specs	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Small diameter PVC	3/24 AWG, Yellow PVC 105 °C 4.4 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24 48 110	TC9S 2-A642-*M ---- ---- ----	---- TC9S 2-L642-*M TC9S 2-M642-*M TC9S 2-N642-*M	---- TC9S 2-P642-* ---- ----
Small diameter TPU	3/24 AWG, Black TPU 90 °C 4.2 mm OD Black Body	1. BN 2. BU Gnd - BK	0-220 24 48 110	TC9S 2-A587-*M ---- ---- ----	---- TC9S 2-L587-*M TC9S 2-M587-*M TC9S 2-N587-*M	---- TC9S 2-P587-* ---- ----

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

Valve Connectors, Type "C" (9.4 mm)

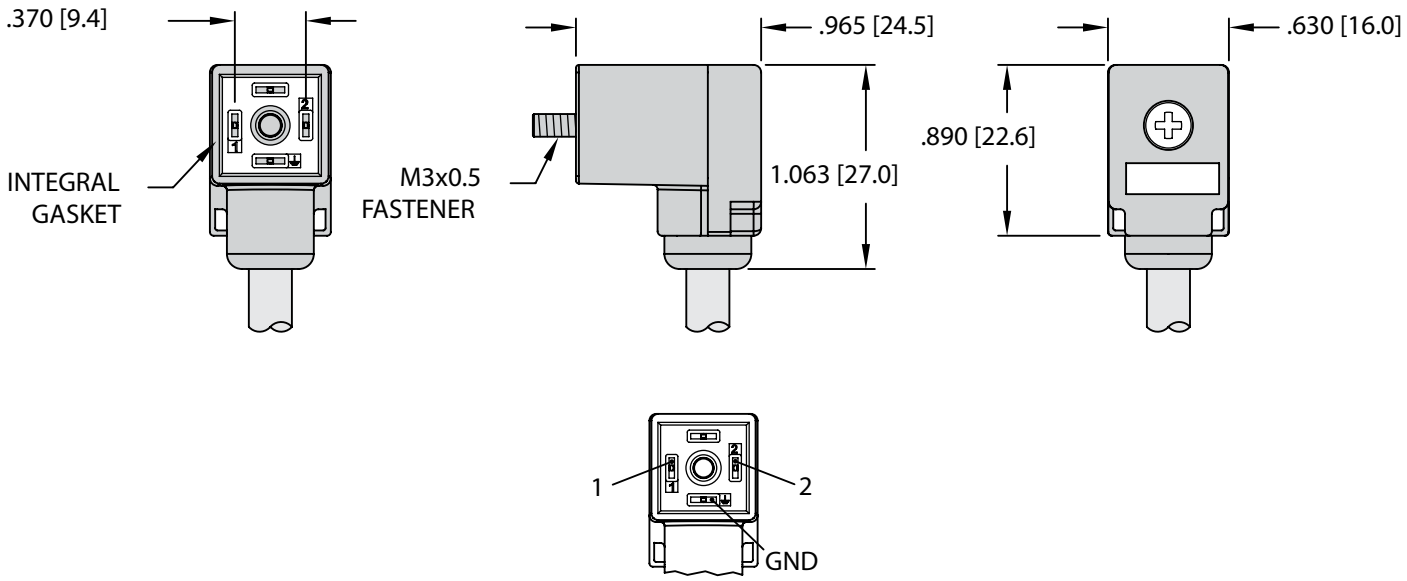
Specifications

Connectors:	Oil resistant polyurethane body material, Nylon contact carrier.
Contacts:	Silver plated copper alloy.
Cable:	See table.
Cable Length:	Standard cable lengths are nominal 5 meters. Other lengths available by request - consult factory.
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

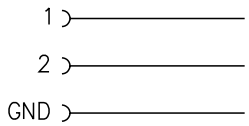
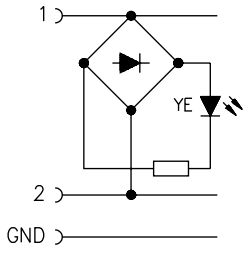
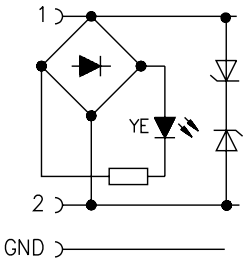
Options: Grey connector body available (special order), change part number TC9S...to TC9G…
For other combinations or options, consult factory.

Dimensions

Type C (9.4 mm)



Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

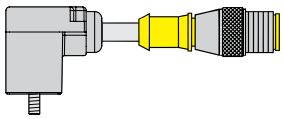
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Valve Connectors, Type "C" (9.4 mm) Extensions

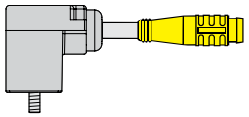
- **Available with PVC and TPU Jackets**
- **2 Conductor + Ground (Eurofast®)**



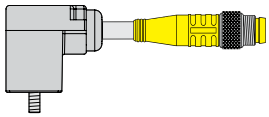
Eurofast Extension

"C" (9.4 mm) Style Valve Connectors, Eurofast Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC9S 2-A653-*M-RS 5.3T ---- ---- ----	---- TC9S 2-L653-*M-RS 5.3T TC9S 2-M653-*M-RS 5.3T TC9S 2-N653-*M-RS 5.3T	---- TC9S 2-P653-*M-RS 5.3T ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC9S 2-A669-*M-RS 5.3T ---- ---- ----	---- TC9S 2-L669-*M-RS 5.3T TC9S 2-M669-*M-RS 5.3T TC9S 2-N669-*M-RS 5.3T	---- TC9S 2-P669-*M-RS 5.3T ---- ----



Picofast Snap Extension



Picofast Threaded Extension

"C" Style Valve Connectors, Picofast® Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Small diameter, PVC Snap lock	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24 48	TC9S 2-A642-*M-PSG 3 ---- ----	---- TC9S 2-L642-*M-PSG 3 TC9S 2-M642-*M-PSG 3	---- TC9S 2-P642-*M-PSG 3 ----
Small diameter, TPU Snap lock	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24 48	TC9S 2-A587-*M-PSG 3 ---- ----	---- TC9S 2-L587-*M-PSG 3 TC9S 2-M587-*M-PSG 3	---- TC9S 2-P587-*M-PSG 3 ----
Small diameter, PVC Threaded	3/24 AWG Yellow PVC 105 °C 4.4 mm OD	0-125 24 48	TC9S 2-A642-*M-PSG 3M ---- ----	---- TC9S 2-L642-*M-PSG 3M TC9S 2-M642-*M-PSG 3M	---- TC9S 2-P642-*M-PSG 3M ----
Small diameter, TPU Threaded	3/24 AWG Black TPU 90 °C 4.2 mm OD	0-125 24 48	TC9S 2-A587-*M-PSG 3M ---- ----	---- TC9S 2-L587-*M-PSG 3M TC9S 2-M587-*M-PSG 3M	---- TC9S 2-P587-*M-PSG 3M ----

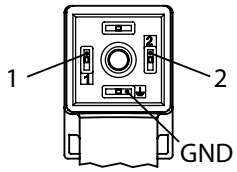
* Length in meters.

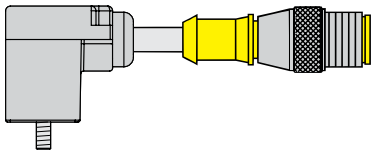
We reserve the right to make technical alterations without prior notice.

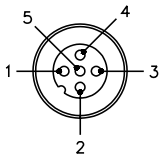
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Valve Connectors, Type "C" (9.4 mm) Extensions

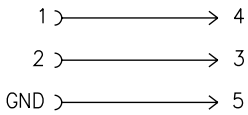
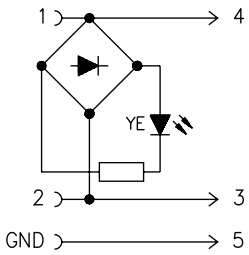
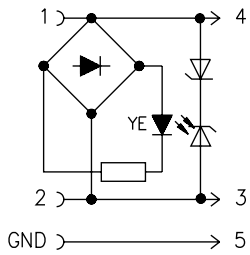
Type "C" (9.4 mm) Valve Connector to Eurofast® Extension



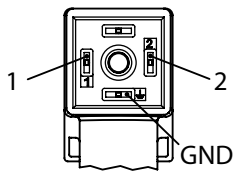


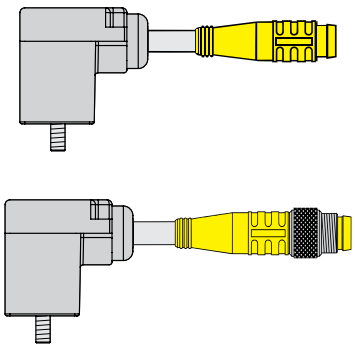


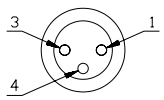
Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

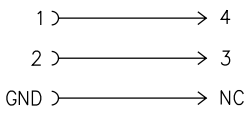
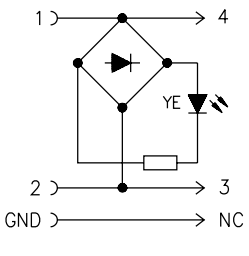
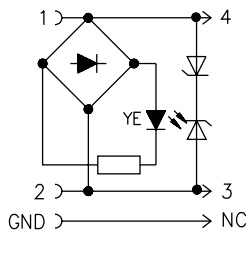
Type "C" (9.4 mm) Valve Connector to Picofast® Extension







Wiring Diagrams

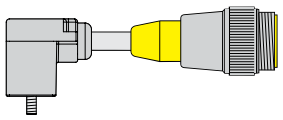
Straight Wired (A)	Indicator LED (L, M)	Indicator LED and Suppressor Diodes (P)
		

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

Valve Plug Connectivity

Valve Connectors, Type "C" (9.4 mm) Extensions

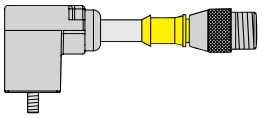
- **Available with PVC and TPU Jackets**
- **18 AWG**
- **2 Conductor + Ground**



Minifast Extension

"C" (9.4 mm) Style Valve Connectors, Minifast® Extension

Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC9S 2-A653-*M-RSM 30 ---- ---- ----	---- TC9S 2-L653-*M-RSM 30 TC9S 2-M653-*M-RSM 30 TC9S 2-N653-*M-RSM 30	---- TC9S 2-P653-*M-RSM 30 ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC9S 2-A669-*M-RSM 30 ---- ---- ----	---- TC9S 2-L669-*M-RSM 30 TC9S 2-M669-*M-RSM 30 TC9S 2-N669-*M-RSM 30	---- TC9S 2-P669-*M-RSM 30 ---- ----



Microfast Extension

"C" (9.4 mm) Style Valve Connectors, Microfast® Extension

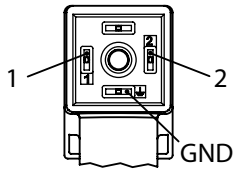
Application	Cable Specs	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and Suppressor Diodes
Standard duty PVC	3/18 AWG, Grey PVC 105 °C 6.2 mm OD Black Body	0-220 24 48 110	TC9S 2-A653-*M-SB 3T ---- ----	---- TC9S 2-L653-*M-SB 3T TC9S 2-M653-*M-SB 3T TC9S 2-N653-*M-SB 3T	---- TC9S 2-P653-*M-SB 3T ---- ----
Standard duty TPU	3/18 AWG, Grey TPU 90 °C 6.0 mm OD Black Body	0-220 24 48 110	TC9S 2-A669-*M-SB 3T ---- ---- ----	---- TC9S 2-L669-*M-SB 3T TC9S 2-M669-*M-SB 3T TC9S 2-N669-*M-SB 3T	---- TC9S 2-P669-*M-SB 3T ---- ----

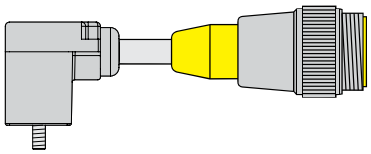
* Length in meters.

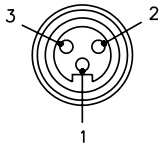
We reserve the right to make technical alterations without prior notice.

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

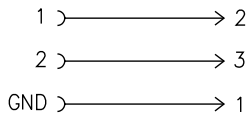
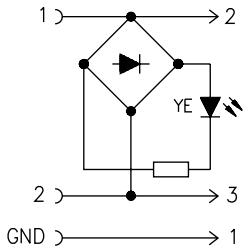
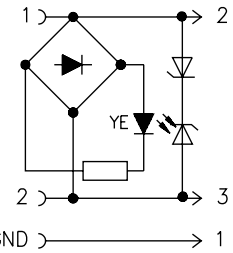
Type "C" (9.4 mm) Valve Connector to Minifast® Extension



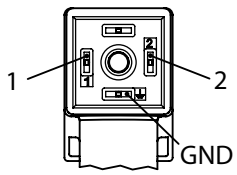


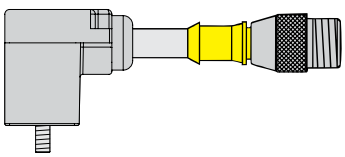


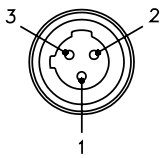
Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

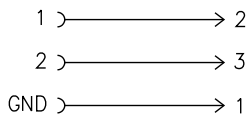
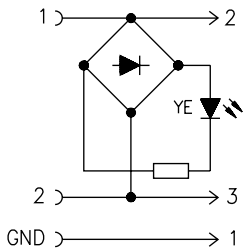
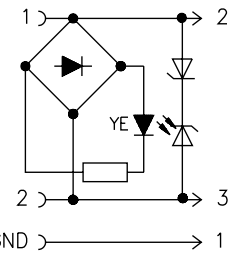
Type "C" (9.4 mm) Valve Connector to Microfast® Extension







Wiring Diagrams

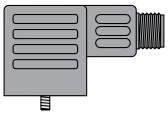
Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

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

Valve Plug Connectivity

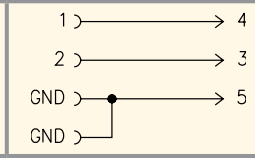
Valve Connectors w/Integral Eurofast® or Picofast® Connector

- **Integral Eurofast and Picofast Connectors**
- **Compact Size**
- **2 Conductor + Ground (Eurofast)**



"A" Style Valve Connectors, Integral Eurofast Connector

Eurofast

Application	Pinout	Voltage VAC/DC	Straight Wired	Indicator LED	Indicator LED and MOV
"A" Style Connector with Integral Eurofast connector 2 Conductors, 1 Ground Ground contacts Parallel wired		0-220 24-48	VAS 22-A-FS 5.3 ----	---- ----	---- VAS 22-D-FS 5.3

* Length in meters.

We reserve the right to make technical alterations without prior notice.

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

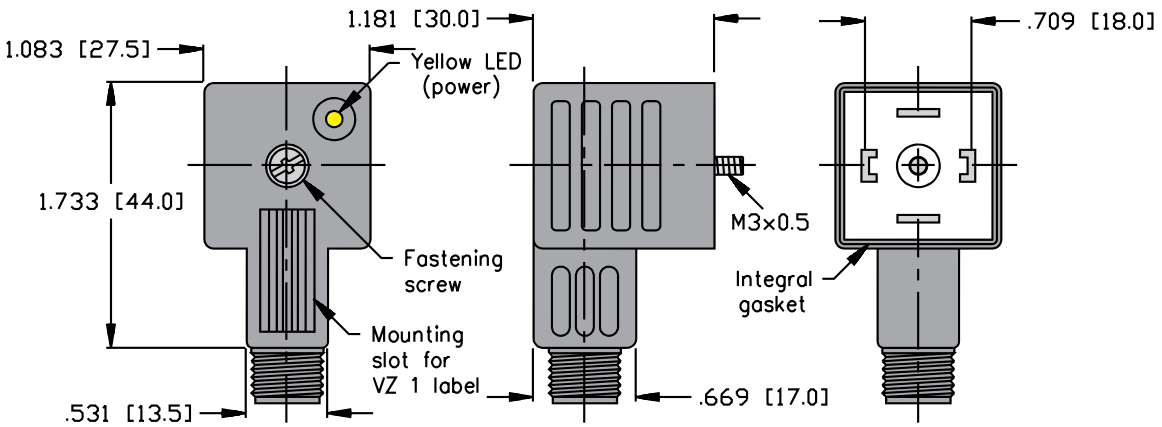
Valve Connectors w/Integral Eurofast® or Picofast® Connector

Specifications

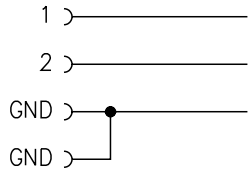
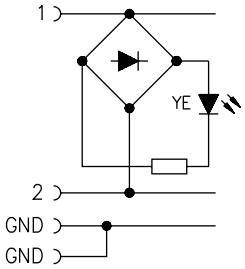
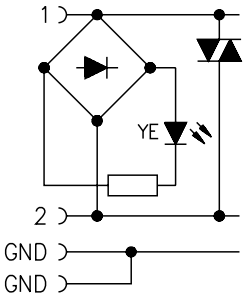
Specifications:	Oil resistant polyurethane body material, Nylon valve plug contact carrier, TPU Eurofast contact carrier.
Contacts:	Valve plug: silver plated copper alloy; Eurofast: gold plated brass.
Temperature:	-30 °C to +80 °C (-22 °F to +176 °F).
Protection Class:	NEMA 1, 3, 4, 6P and IEC IP 67 when connected and secured.

Dimensions

Type A with Eurofast



Wiring Diagrams

Straight Wired (A)	Indicator LED (L, M, N)	Indicator LED and Suppressor Diodes (P)
		

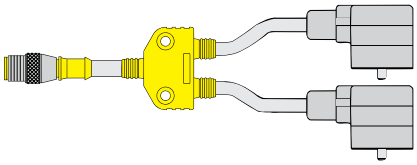
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

Eurofast® 2 Branch Splitters with Valve Plugs

- **Combine 2 Valve Plugs into 1 Eurofast**
- **For Use w/Eurofast J-boxes w/2 Signals/Port**
- **Available with All Valve Plug Styles (A, B, I and C)**



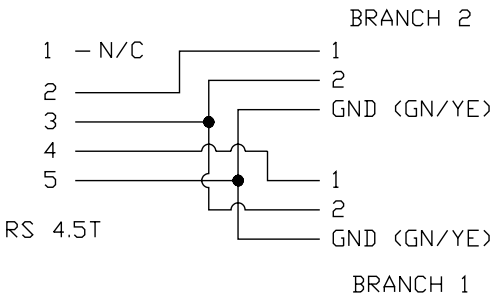
4-wire Series-Wired VB2

Application	Specifications	Wiring Diagram	Part Number
Combine 2 valve plugs into 1 cable. For use with 2 signal / port junction boxes. "A" style (18 mm) valve plugs.	220 VAC/DC 4.0 A RS 4.5T = Grey PVC, 5.3 mm OD, 4/22 AWG Valve plug = Grey PVC, 6.2 mm OD 3/18 AWG	**Diagram A**	VB2-RS 4.5T-*/2VAS 22-A653-*/*
Combine 2 valve plugs into 1 cable. For use with 2 signal / port junction boxes. "B" style (10 mm) valve plugs.	220 VAC/DC 4.0 A RS 4.5T = Grey PVC 5.3 mm OD, 4/22 AWG Valve plug = Grey PVC, 6.2 mm OD 3/18 AWG	**Diagram A**	VB2-RS 4.5T-*/2VBS 2-A653-*/*
Combine 2 valve plugs into 1 cable. For use with 2 signal / port junction boxes. "I" style (11 mm) valve plugs.	220 VAC/DC 4.0 A RS 4.5T = Grey PVC, 5.3 mm OD, 4/22 AWG Valve plug = Grey PVC, 6.2 mm OD 3/18 AWG	**Diagram A**	VB2-RS 4.5T-*/2VIS 2-A653-*/*
Combine 2 valve plugs into 1 cable. For use with 2 signal / port junction boxes. "C" style (8 mm) valve plugs.	220 VAC/DC 4.0 A RS 4.5T = Grey PVC, 5.3 mm OD, 4/22 AWG Valve plug = Grey PVC, 6.2 mm OD 3/18 AWG	**Diagram A**	VB2-RS 4.5T-*/2TC8S 2-A653-*/*
Combine 2 valve plugs into 1 cable. For use with 2 signal / port junction boxes. "C" style (9.4 mm) valve plugs.	220 VAC/DC 4.0 A RS 4.5T = Grey PVC, 5.3 mm OD, 4/22 AWG Valve plug = Grey PVC, 6.2 mm OD 3/18 AWG	**Diagram A**	VB2-RS 4.5T-*/2TC9S 2-A653-*/*

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Diagram A



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

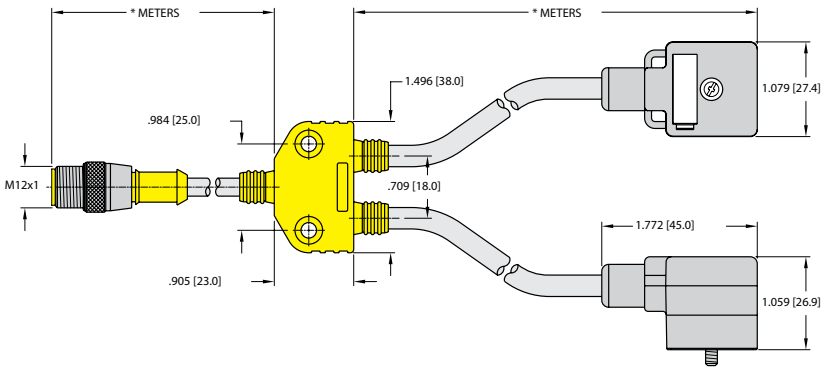
Specifications

Junction Body:	Oil resistant Yellow polyurethane.	**Coupling Nuts:**	Nickel plated brass.
Connector:	Oil resistant polyurethane body material, Nylon or TPU contact carrier.	**Cable:**	See table.
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F) - all PVC cable; -40 °C to +90 °C (-40 °F to +194 °F) - with TPU cable.
Contacts:	Gold plated brass (Eurofast). Silver plated copper alloy (V*fast).	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP 68.

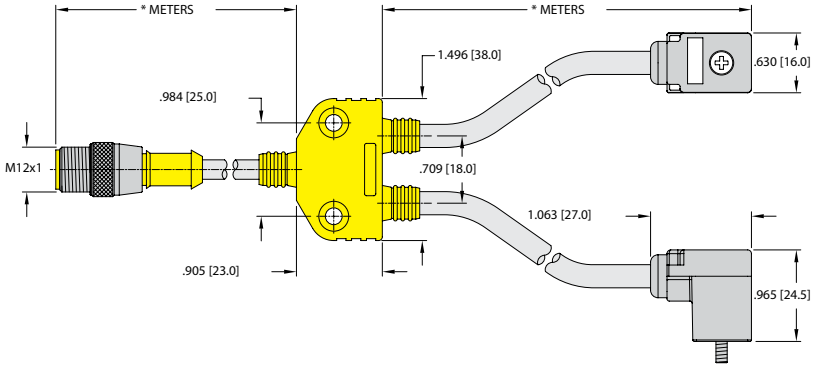
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Other jackets available by request - consult factory.
Valve Options: Available w/LED or LED+mov, consult factory.
Eurofast® Options: Stainless steel coupling nut add "V" to part number (RS .. to RSV ..).
Nylon coupling nut add "K" to part number (RS .. to RSK ..).
Right angle connectors, change part number (RS .. to WS..).

Dimensions

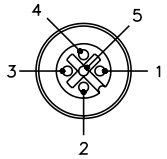
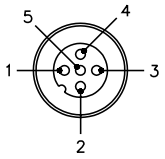
VB2-RS 4.5T-*/2V .. S 2 .. -A528-*/*



VB2-RS 4.5T-*/2TC .. S 2-A528-*/*



Pinout

5-Pin	
Female	**Male**
	

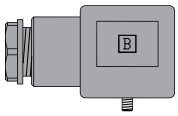
We reserve the right to make technical alterations without prior notice.

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

Valve Plug Connectivity

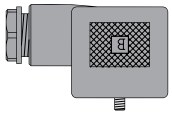
Valve Connectors, Field Wireables

- **Convert Hard Wiring Into Quick Disconnect**
- **Facilitate Field Replacements**



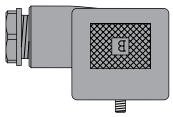
"A" Style Valve Connector

Application	Specifications	Straight Wired
"A" Style Valve Connector	0-220 VAC/DC, 10 A	VAS 3-AW



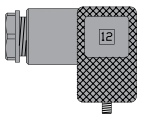
"B" Style Valve Connector

Application	Specifications	Straight Wired
"B" Style Valve Connector	0-220 VAC/DC, 10 A	VBS 2-AW



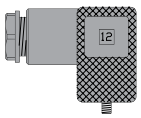
"I" Style Valve Connector

Application	Specifications	Straight Wired
"I" Style Valve Connector	0-220 VAC/DC, 10 A	VIS 2-AW



"C" (8 mm) Style Valve Connector

Application	Specifications	Straight Wired
"C" (8 mm) Style Valve Connector	0-220 VAC/DC, 10 A	TC8S 2-AW



"C" (9.4 mm) Style Valve Connector

Application	Specifications	Straight Wired
"C" (9.4 mm) Style Valve Connector	0-220 VAC/DC, 10 A	TC9S 2-AW

We reserve the right to make technical alterations without prior notice.

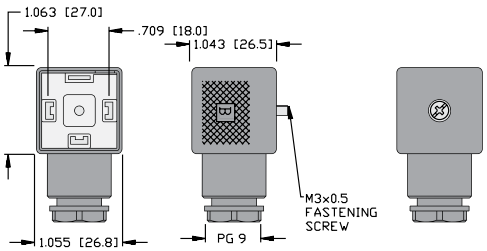
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Specifications

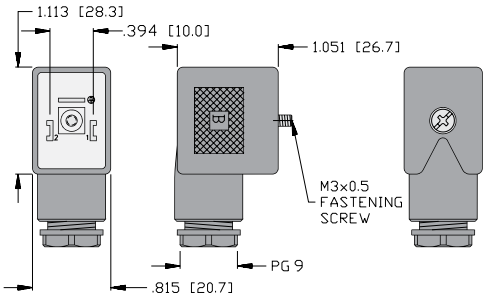
Housing:	Nylon, black.	**Cable Gland:**	PG 9 accepts cable diameter 6-8 mm. PG 7 accepts cable diameter 4-6 mm.
Connectors:	Nylon, black.		
Gasket:	Nitrile.	**Temperature:**	-25 °C to +90 °C (-13 °F to +194 °F).
Contacts	Nickel plated brass	**Protection Class:**	NEMA 4, 6P and IEC IP 65.
Terminals:	Screw terminals, conductors to 14 AWG.		

Dimensions

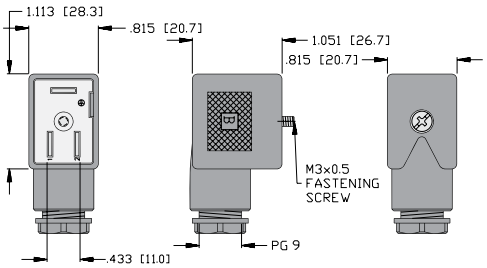
VAS 3-AW



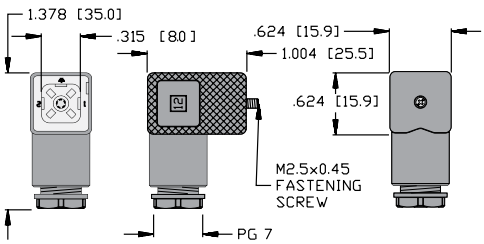
VBS 2-AW



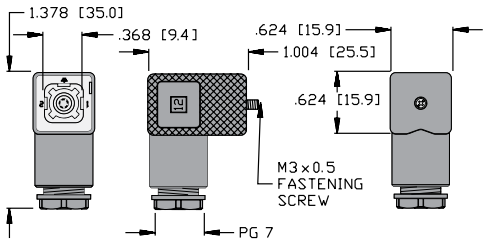
VIS 2-AW



TC8S 2-AW



TC9S 2-AW



We reserve the right to make technical alterations without prior notice.

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

Notes

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

Cable Glands	U2
Strain Relief	U5
Snap-In Labels	U5
Lock Nuts	U6
Torque Wrench	U7
Protective Sleeves	U8

Features

- NPT and PG thread cable glands in nylon or metal materials
- Locknuts in multiple thread sizes for receptacle mounting
- M12/M8 torque tool
- Fiberglass and silicone sleeving
- Customizable labels

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

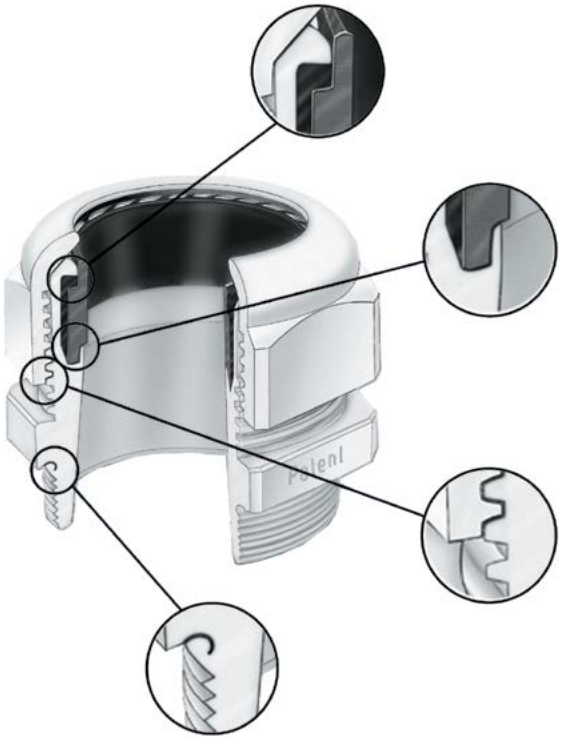
Liquid Tight Nylon Strain Relief Cable Glands

Communication Rate/Cycle Time

Whenever a metal strain relief cable gland is used, this Nylon Strain Relief Cable Gland can be substituted to save you money without sacrificing performance. Typical applications are: Control cabinets, car washes, hot tubs, instrumentation, carpet cleaning machines, food processing equipment, underground for direct burial, and underwater to 300 ft. (150 PSIG).

Pull-out Resistance - Protection

Flexible, overlapping clamping splines prevent the form seal from being pulled out of the fitting and offers protection for the cable.



Dependable

Exceeds NEMA 4x and 6 specifications (UL tested). For submersion applications, use an O-Ring or Seal Ring between body and housing. Either tap the housing or secure in panel hole with Locking Nut.

Submersible

The patented recess and high performance seal guarantees NEMA 4x and 6 (IP 68) at 150 PSIG (10 BAR).

Non-Corrosive

The Nylon strain relief cable glands are resistant to salt water, weak acids, weak alkalis, alcohol, esters, ketones, ether, gasoline, mineral, animal and vegetable oil.

Rugged Construction

The rugged lead screw results in a dependable transmission of force between nut and body.

Liquid Tight

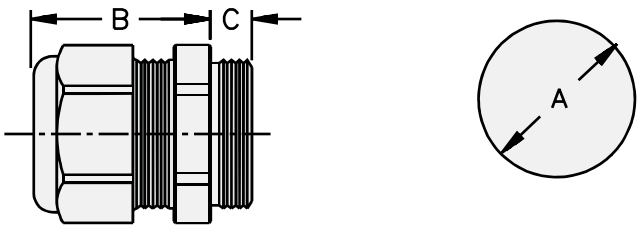
The concentric seal ridge and molded groove for an optional O-Ring results in a liquid tight seal between body and housing.

EMI/RFI Proof-Grounded

- Termination of the braided shield
- Strip cable jacket and braiding to different lengths
- For small diameter cables, fold the braided shield back over the cable jacket
- Insert cable into fitting until it reaches contact point
- Tighten dome nut

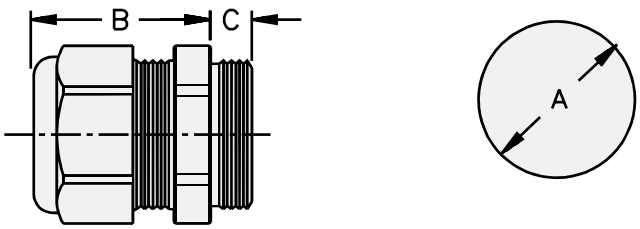
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

PG/NPT Threads - Nylon/Straight



Part Number	Cable Range	Thread Type	Clearance Hole (A)	Body Length (B)	Thread Length (C)
CG-PG7STRT-NYLON 3-6.5MM	3 to 6.5 mm	PG7	12.5 mm	20 mm	8 mm
CG-PG9STRT-NYLON 4-8MM	4 to 8 mm	PG9	15.2 mm	22 mm	8 mm
CG-PG11STRT-NYLON 5-10MM	5 to 10 mm	PG11	18.5 mm	24 mm	8 mm
CG-3/8STRT-NYLON 2-6MM	2 to 6 mm	3/8" NPT	17.2 mm	22 mm	15 mm
CG-1/2STRT-NYLON 5-9MM	5 to 9 mm	1/2" NPT	21.1 mm	27 mm	13 mm
CG-1/2STRT-NYLON 10-14MM	10 to 14 mm	1/2" NPT	21.1 mm	28 mm	13 mm
CG-3/4STRT-NYLON 9-16MM	9 to 16 mm	3/4" NPT	26.7 mm	30 mm	13 mm

PG/NPT Threads - Metal/Straight

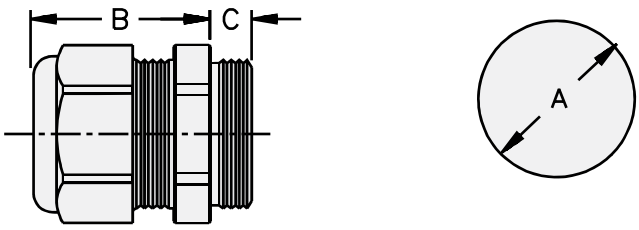


Part Number	Cable Range	Thread Type	Clearance Hole (A)	Body Length (B)	Thread Length (C)
CG-PG7STRT-METAL 3-6.5MM	3 to 6.5 mm	PG7	12.5 mm	19 mm	5 mm
CG-PG9STRT-METAL 4-8MM	4 to 8 mm	PG9	15.2 mm	21 mm	6 mm
CG-PG11STRT-METAL 5-10MM	5 to 10 mm	PG11	18.5 mm	22 mm	6 mm
CG-3/8STRT-METAL 4-8MM	4 to 8 mm	3/8" NPT	17.2 mm	21 mm	15 mm
CG-1/2STRT-METAL 6-12MM	6 to 12 mm	1/2" NPT	21.1 mm	24 mm	13 mm
CG-3/4STRT-METAL 13-18MM	13 to 18 mm	3/4" NPT	26.7 mm	25 mm	13 mm

We reserve the right to make technical alterations without prior notice.

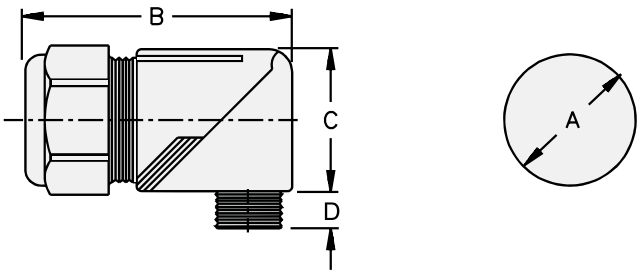
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

SHIELDED - PG/NPT Threads - Metal/Straight



Part Number	Cable Range	Thread Type	Clearance Hole (A)	Body Length (B)	Thread Length (C)
CG-3/8STRT-SHLDMTL 4-8MM	4 to 8 mm	3/8" NPT	17.2 mm	20 mm	15 mm
CG-1/2STRT-SHLDMTL 6-12MM	6 to 12 mm	1/2" NPT	21.1 mm	22 mm	13 mm
CG-3/4STRT-SHLDMTL 9-16MM	9 to 16 mm	3/4" NPT	26.7 mm	29 mm	13 mm

PG/NPT Threads - Nylon/Right Angle



Part Number	Cable Range	Thread Type	Clearance Hole (A)	Body Length (B)	Height (C)	Thread Length (D)
CG-PG9ANGLE-NYLON 4-8MM	4 to 8 mm	PG 9	15.2 mm	45 mm	23 mm	8 mm
CG-3/8ANGLE-NYLON 4-8MM	4 to 8 mm	3/8" NPT	17.2 mm	45 mm	23 mm	15 mm
CG-1/2ANGLE-NYLON 5-9MM	5 to 9 mm	1/2" NPT	21.1 mm	57 mm	30.5 mm	13 mm
CG-1/2ANGLE-NYLON 10-14MM	10 to 14 mm	1/2" NPT	21.1 mm	65 mm	32.5 mm	13 mm
CG-3/4ANGLE-NYLON 9-16MM	9 to 16 mm	3/4" NPT	26.7 mm	73 mm	40 mm	13 mm

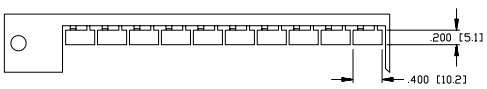
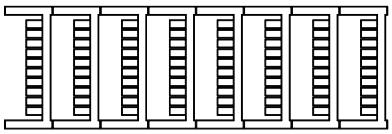
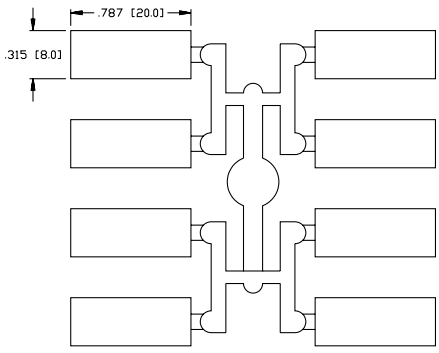
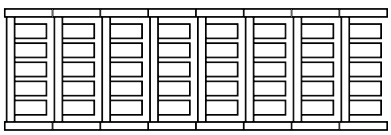
We reserve the right to make technical alterations without prior notice.

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

Strain Relief Cord Grips

Part Number	Specifications	Application	Drawing
SRF-PG11	Nylon PG 11 threads Accepts cable diameter .200-.394" IP 68 -30 °C to +100 °C	Strain relief cord grip	
SRF-PG13.5	Nylon PG 13.5 threads Accepts cable diameter .236-.472" IP 68 -30 °C to +100 °C	Strain relief cord grip	

Snap-in Labels

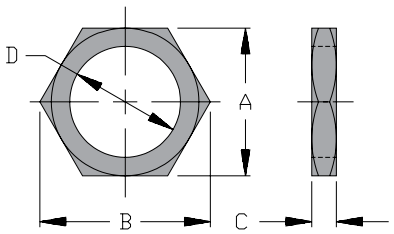
Part Number	Specifications	Application	Drawing
KS 5/10 (10/Labels)	10 white labels 5x10 mm each	Snap-in labels for VBRS and VBRK splitters and Eurofast® to Picofast® adapters and junction boxes	
Custom printed labels (Consult factory for part number)	1 sheet minimum 80 white labels, 5x10 mm each		
VZ 1 (8/labels)	8 white labels 8x20 mm each Nylon	Snap-in labels for Eurofast and Microfast® junction boxes, V*fast®	
Custom printed labels (Consult factory for part number)	1 sheet minimum 40 white labels, 8x20 mm each		

We reserve the right to make technical alterations without prior notice.

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

Lock Nuts

Part Number	Specifications	Application	A	B	C	D
LOCKNUT-PG 9 Metal (5/Bag)	Nickel plated brass PG 9 threads 5 per bag	Lock nut Eurofast® receptacles	0.71″ 18.0 mm	0.79″ 20.0 mm	0.11″ 2.8 mm	PG 9
LOCKNUT-PG 13.5 Metal (5/Bag)	Nickel plated brass PG 13.5 threads 5 per bag	Lock nut Eurofast receptacles	0.90″ 23.0 mm	1.00″ 25.5 mm	0.12″ 3.0 mm	PG 13.5
LOCKNUT 1/4-18 (10/Bag)	Nickel plated brass 1/4-18 threads 10 per bag	Lock nut Eurofast and Microfast® receptacles	0.69″ 17.5 mm	0.79″ 20.0 mm	0.16″ 4.0 mm	1/4-18
LOCKNUT 1/2-14 Hex (10/Bag)	Die-cast Zinc ½-14 threads 10 per bag	Lock nut Minifast®, Eurofast and Microfast receptacles	0.94″ 24.0 mm	1.1″ 27.5 mm	0.16″ 4.0 mm	1/2-14



We reserve the right to make technical alterations without prior notice.

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

Torque Wrench

Picture	Part Number	Specifications
Base **Torque Adjuster** **M8 Insert** **M12 Insert** 	**SCREWTY M8/M12 TORQUE WRENCH**	For tightening and loosening of Eurofast® and Picofast® connectors **M8 Torque:** Recommended: 0.5 Nm **M12 Torque:** Recommended: 0.8 Nm

We reserve the right to make technical alterations without prior notice.

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

Braided Fiberglass Sleeving Viton Coated (Bulk)

Part Number	Specifications	Application	Features
FFV 1/4INCH BLACK 50 FOOT ROLL† **FFV 1/4INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 1/4" diameter -70 °C to +220 °C NEMA TF-1	Protective sleeving for insulation of cable.	Excellent chemical and solvent resistance, coating offers improved flexibility and protection throughout a wide operating temperature range.
FFV 3/8INCH BLACK 50 FOOT ROLL† **FFV 3/8INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 3/8" diameter -70 °C to +220 °C NEMA TF-1		
FFV 1/2INCH BLACK 50 FOOT ROLL† **FFV 1/2INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 1/2" diameter -70 °C to +220 °C NEMA TF-1		
FFV 5/8INCH BLACK 50 FOOT ROLL† **FFV 5/8INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 5/8" diameter -70 °C to +220 °C NEMA TF-1		
FFV 1INCH BLACK 50 FOOT ROLL† **FFV 1INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 1" diameter -70 °C to +220 °C NEMA TF-1		
FFV 1 1/2INCH BLACK 50 FOOT ROLL† **FFV 1 1/2INCH BLACK (10/BAG-6IN)**†	Viton (fluoroelastomer) coated, braided fiberglass, black 1 1/2" diameter -70 °C to +220 °C NEMA TF-1		

We reserve the right to make technical alterations without prior notice.

Braided Fiberglass Sleeving Acryl-Coated (Bulk)

Part Number	Specifications	Application	Features
FF 3/4INCH BLACK (10/BAG)† **FF 3/4INCH BLACK 50 FOOT ROLL**†	Acryl-coated braided fiberglass 3/4" diameter -70 °C to +240 °C NEMA TF-1	Protective sleeving for insulation of cable.	Excellent chemical and solvent resistance.
FF 1/2INCH BLACK (10/BAG)† **FF 1/2INCH BLACK 50 FOOT ROLL**†	Acryl-coated braided fiberglass 1/2" diameter -70 °C to +240 °C NEMA TF-1		

† Sleeving part numbers only; cordset not included.

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

Expandable Silicone Rubber Coated, Fiberglass Sleeving (Bulk)

Part Number	Specifications	Application	Features
FFFS WHT ID 3/8-INCH-30M† **FFFS WHT ID 3/8-INCH (10/BAG-6IN)**†	Fiberglass braid, silicone rubber coating, white 3/8" diameter, -55 °C to +200 °C NEMA TF-1	Expandable silicone coated fiberglass sleeving for protection of cable and coupling nut.	"Heat shrink" like fit with abrasion, moisture, cut-through chemical and weld slag resistance.
FFFS WHT ID 5/8-INCH-30M† **FFFS WHT ID 5/8-INCH (10/BAG-6IN)**†	Fiberglass braid, silicone rubber coating, white 5/8" diameter, -55 °C to +200 °C NEMA TF-1		
FFFS BLK ID 3/4-INCH-30M† **FFFS BLK ID 3/4-INCH (10/BAG-6IN)**†	Fiberglass braid, silicone rubber coating, black 3/4" diameter, -55 °C to +200 °C NEMA TF-1		
FFFS BLK ID 1-INCH-30M† **FFFS BLK ID 1-INCH (10/BAG-6IN)**†	Fiberglass braid, silicone rubber coating, black 1" diameter, -55 °C to +200 °C NEMA TF-1		

† Sleeving part numbers only; cordset not included.

Silicone Tubing (*Bulk)

Part Number	Specifications	Application	Features
ST ID 1/4-INCH-30M† **ST ID 1/4-INCH (10/BAG-6IN)**†	Silicone rubber tubing, translucent 1/4" diameter UL	Protective tubing for insulation of cable.	Excellent weld slag resistance.
ST ID 3/8-INCH-30M† **ST ID 3/8-INCH (10/BAG-6IN)**†	Silicone rubber tubing, translucent 3/8" diameter UL		
ST ID 3/8-INCH-30M† **ST ID 3/8-INCH (10/BAG-6IN)**†	Silicone rubber tubing, translucent 1/2" diameter UL		
ST ID 3/4-INCH-30M† **ST ID 3/4-INCH (10/BAG-6IN)**†	Silicone rubber tubing, translucent 3/4" diameter UL		

Add "/S1077" to end of part number to get silicone tubing assembled to pigtail or extension cordsets up to 4 meters (Picofast®, Eurofast®, Microfast® and Minifast®; 0.5 meter min. on extensions).

† Sleeving part numbers only; cordset not included.

We reserve the right to make technical alterations without prior notice.

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

Weld Shield Sleeve - Hook and Loop Closure

Part Number	Specifications	Application	Features
FFW 1INC 2FOOT	Plain weave fiberglass, neoprene coated, black 1" Bundle OD, 3.25" circumference 4" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance	Applicable sleeve for protection of cable.	Sleeve offers excellent resistance to abrasion, water, most chemicals, heat, sparks, and flame in a wide operating temperature range, while being lightweight, tough and highly flexible.
FFW 2INC 2FOOT	Plain weave fiberglass, neoprene coated, black 2" Bundle OD, 6" circumference 7.75" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 3INC 2FOOT*	Plain weave fiberglass, neoprene coated, black 3" Bundle OD, 9.4" circumference 11" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 4INC 2FOOT*	Plain weave fiberglass, neoprene coated, black 4" Bundle OD, 12.5" circumference 14" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 5INC 2FOOT	Plain weave fiberglass, neoprene coated, black 5" Bundle OD, 15.75" circumference 17.25" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 6INC 2FOOT	Plain weave fiberglass, neoprene coated, black 6" Bundle OD, 18.8" circumference 20.375" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 7INC 2FOOT	Plain weave fiberglass, neoprene coated, black 7" Bundle OD, 22" circumference 23.5" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		
FFW 8INC 2FOOT	Plain weave fiberglass, neoprene coated, black 8" Bundle OD, 25.125" circumference 26.625" Sleeve Width Flat, Tested to ISO 6945 -40 °C to +204 °C Temperature Resistance		

* 25 foot spool also available.

Weld Seal Tape

Part Number	Specifications	Application	Features
FST 1IN 12YARDS	Silicone rubber, Clear 1" width, 12 yard length, -40 °C to +204 °C	Applicable clear tape protecting open areas between silicone tubing and mold.	Tape offers excellent resistance to water, most chemicals, heat, sparks, and flame in a wide operating temperature range, while being lightweight, and highly flexible.

We reserve the right to make technical alterations without prior notice.

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

Part Number Keys	V2
2-Branch Compact	V6
2-Branch Standard	V10
M12 to M8 2-Branch	V20
M12 to Valve Plug 2-Branch	V22
4-Branch Standard	V24
2-Branch M8 Compact	V36
4-Branch M8	V44
M12 to M8 Adapters	V48
M12 2-Branch Molded Splitters	V50

Features

- Multiple body styles
- M12 and M8 connectors
- 2 and 4 branch products
- LED options
- Integral connectors or cables
- Standard, parallel and series wired

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

2-Branch Splitter Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

VB2 - [ ] - RS 4.4 T - * / 2 FKM 4.4 [ ] - * / * / /S651

2 Branch Splitter

Housing Material

PX3 = 3 PNP LEDs

HomeRun Connector

FSM = Male Eurofast® connector
FKM = Female Eurofast connector
RS = Male Eurofast connector with cable
RK = Female Eurofast connector with cable
WS = Male Eurofast connector (right angle) with cable
WK = Female Eurofast connector (right angle) with cable

Number of HomeRun Wires

4.4 = 4 wires
4.41 = 4 NAMUR wires
4.5 = 5 wires

Plug Options

(Blank) = No barb fitting
T = "T" barb fitting

Cable Length in Meters

(Blank) = No cable

2 Branch

Branch Connectors

FSM = Male Eurofast connector
FKM = Female Eurofast connector
RS = Male Eurofast connector with cable
RK = Female Eurofast connector with cable
WS = Male Eurofast connector (right angle) with cable
WK = Female Eurofast connector (right angle) with cable

Number of Branch Wires

4.21 = 2 NAMUR wires
4 = 3 wires
4.4 = 4 wires
4.5 = 5 wires

Plug Options

(Blank) = No barb fitting
T = "T" barb fitting

Cable Length in Meters

(Blank) = No cable

Wiring

(Blank) = Standard
"/S651" = Parallel
"/S719" = Series
/S = Consult factory
/CS = /CS = Consult

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

3 and 4 Branch Splitter Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

V	6	R	K	C	V	-	*	/	R	K	V	4.4	-	*/	*/	*/	*/	S651

3 or 4-Branch Splitter

# of HomeRun Wires

Family Group

R = Eurofast®
P = Picofast®

Gender

S = Male
K = Female

Body Style (if applicable)

Coupling Nut Material

(Blank) = Standard
V = Stainless steel
K = Nylon
M = Threaded (pico)
Z = Snap (pico)

Length in Meters of Cable

Any length over 10 m rounded to the nearest meter.

Family Group

R = Eurofast
P = Picofast

Gender

S = Male
K = Female

Coupling Nut Material

(Blank) = Standard
V = Stainless steel
K = Nylon

Number of Wires and/or Locking Method

Eurofast = 4, 4.4, 4.5
Picofast = 3, 3Z, 3M, 3F, 4, 4Z, 4M

Branch 1 Length in Meters

Any length over 10 m rounded to the nearest full meter.

Branch 2 Length in Meters

Any length over 10 m rounded to the nearest full meter.

Branch 3 Length in Meters

Any length over 10 m rounded to the nearest full meter.

Branch 4 Length in Meters

Any length over 10 m rounded to the nearest full meter.

Wiring

(Blank) = Standard
"/S651" = Parallel
"/S719" = Series
/S = Consult factory
/CS = /CS = Consult

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

2-Branch Compact Splitter Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

YBZ2	-		-	FSM	4.5	/	2	FK	4.5		-	*	/	*	/	/S651

Compact 2-Branch Splitter

YBZ2 = M12 Eurofast®
YP2 = M8 Picofast®

Housing Material

PX3 = 3 PNP LEDs
PX2 = 2 PNP LEDs

HomeRun Connector

FSM = Male Eurofast
PSG = Male Picofast with cable
RS = Male Eurofast with cable
MFS = Male Picofast

Number of HomeRun Wires

4.4 = 4 wires
4.5 = 5 wires
4M = 4 wires
3M = 3 wires
6M = 6 wires

2 Branch

Branch Connectors

FK = Female Eurofast connector
PKG = Female Picofast connector with cable
RK = Female Eurofast connector with cable
MFK = Female Picofast connector
PSG = Male Picofast connector with cable

Number of Branch Wires

4.5 = 5 wires
3M = 3 wires
4 = 3 wires
4.4 = 4.4 wires
4M = 4 wires

Plug Options

(Blank) = No barb fitting
T = "T" barb fitting (M12 Eurofast)

Cable Length in Meters

(Blank) = No cable

Wiring

(Blank) = Standard
"/S651" = Parallel

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

2-Branch (VBRS/K) Splitter Part Number Key

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

VB	RS		4.4	-	2	PKG	3	M	-	*	/	*	/	/S90

2 Branch Splitter

HomeRun Connector

RS = Male M12 Eurofast®
RK = Female M12 Eurofast

Coupling Nut

(Blank) = Nickel plated brass
K = Nylon

Number of HomeRun Wires

4.4 = 4 wires
4.5 = 5 wires
4.41 = 4 NAMUR wires

2 Branch

Branch Connectors

ESM = Male M8 Picofast® snap lock
SKM = Female M8 Picofast threaded
PKG = Female M8 Picofast threaded with cable
PSG = Male M8 Picofast threaded with cable
RS = Male M12 Eurofast threaded with cable
RK = Female M12 Eurofast threaded with cable

Number of Branch Wires

4.5 = 5 wires
3M = 3 wires
4 = 3 wires
4.4 = 4.4 wires
4M = 4 wires

Connector Style/Plug Options

(Blank) = M8 Picofast threaded
M = M8 Picofast threaded with cable
S = M8 Picofast snap lock
Z = M8 Picofast snap lock with cable
T = M12 Eurofast "T" barb fitting

Cable Length in Meters

(Blank) = No cable

Wiring

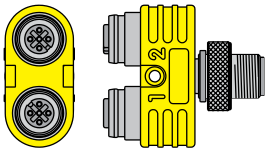
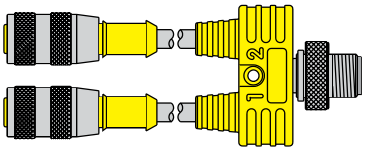
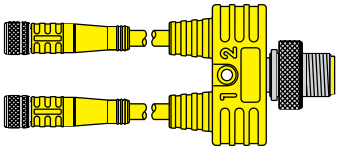
(Blank) = PVC
/S = Consult factory, special
/CS.. = Consult factory, special
/S90 = TPU
/S101 = Flexlife-20
/S651 = Parallel wiring

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

Splitters

M12 Eurofast® 2-Branch Compact Splitters Eurofast Trunk Connector

- **Combine two Sensors into one Cable**
- **For use on cylinders and other Dual-Input applications**
- **Tough TPU Construction**

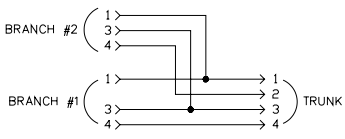
Housing	Part Number	Features	Wiring Diagram
	**YBZ2-FSM4.4/2FK4**	250 V, 4 A , 2 Eurofast branches, 3-wire & 1 Eurofast trunk, 4-wire	Standard
	YBZ2-FSM4.4/2FK4.4/S651	250 V, 4 A, 2 Eurofast branches, 4-wire & 1 Eurofast trunk, 4-wire	Parallel 4-wire
	YBZ2-FSM4.5/2FK4.5/S651	250 V, 4 A, 2 Eurofast branches, 5-wire & 1 Eurofast trunk, 5-wire	Parallel 5-wire
	YBZ2-PX3-FSM4.4/2FK4	10-30 VDC, 4 A, 2 Eurofast branches, 3-wire & 1 Eurofast trunk, 4-wire	LED
	**YBZ2-FSM4.4/2RK4T-*/***	250 V, 4 A, RK 4T = Grey PVC, 5.1 mm OD, 3x20 AWG, 2 Eurofast branches, 3-wire & 1 Eurofast trunk, 4-wire	Standard
	YBZ2-FSM4.4/2RK4.4T-*/*/S651	250 V, 4 A, RK 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, 2 Eurofast branches, 4-wire & 1 Eurofast trunk, 4-wire	Parallel 4-wire
	**YBZ2-FSM4.4/2PKG3M-*/***	125 V, 4 A, PKG 3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast® branches, 3-wire & 1 Eurofast trunk, 4-wire	Standard

* Length in meters.

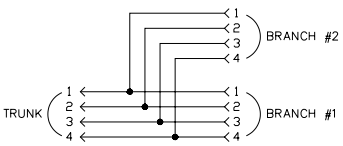
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

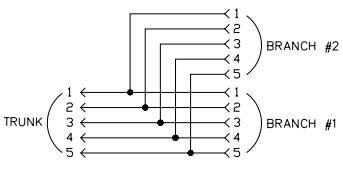
Standard



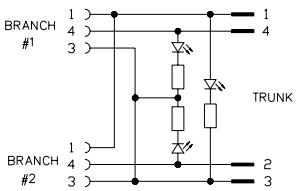
Parallel, 4-wire



Parallel, 5-wire



LED



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

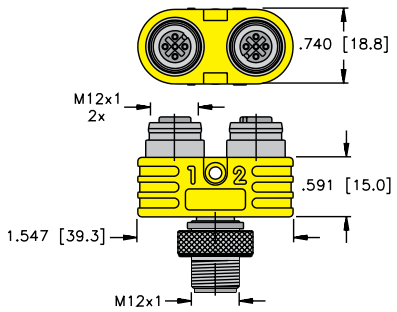
M12 Eurofast® 2-Branch Compact Splitters Eurofast Trunk Connector

Specifications

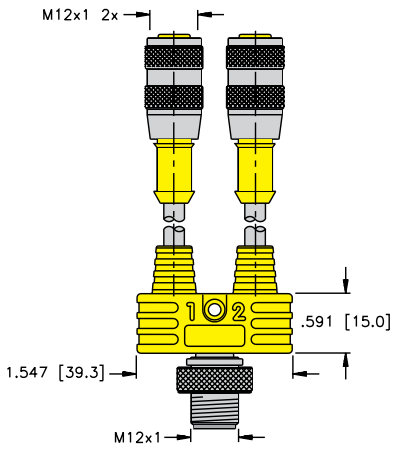
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP68

Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey/yellow PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV, PSG to PSGV, RK to RKV).
Notes: Mounting hole accepts #4 screw.

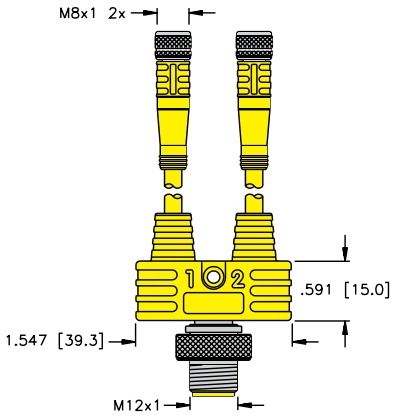
VB2-RS 4.5T-*/2V .. S 2 .. -A528-*/*



YBZ2-FSM 4.4/2RK 4(.4)T-*/*

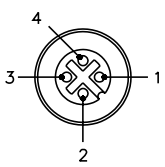
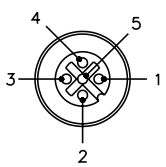
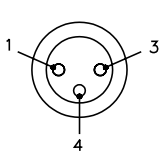
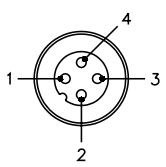
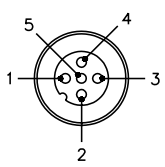


YBZ2-FSM 4.4/2PKG 3M-*/*



We reserve the right to make technical alterations without prior notice.

Pinouts

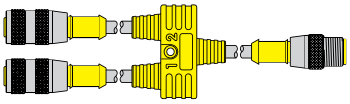
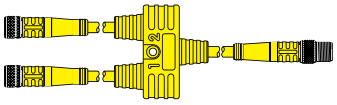
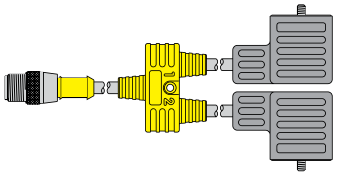
4-Pin Eurofast	5-Pin Eurofast	3-Pin Picofast®	4-Pin Eurofast	5-Pin Eurofast
Female			Male	
				

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

Splitters

M12 Eurofast® 2-Branch Compact Splitters, Trunk and Branch Extensions

- **Combine two sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**

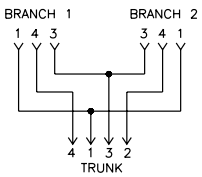
Housing	Part Number	Features	Wiring Diagram
	**YBZ2-RS4.4T-*/2RK4T-*/***	250 V, 4 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, RK 4T = Grey PVC, 5.1 mm OD, 3x20 AWG, 2 Eurofast branches, 3-wire & 1 Eurofast trunk, 4-wire	Standard
	YBZ2-RS4.4T-*/2RK4.4T-*/*/S651	250 V, 4 A, RS 4.4T & RK 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, 2 Eurofast branches, 4-wire & 1 Eurofast trunk, 4-wire	Parallel 4-wire
	YBZ2-RS4.5T-*/2RK4.5T-*/*/S651	250 V, 4 A, RK 4.5T & RS 4.5T = Grey PVC, 5.7 mm OD, 5x22 AWG, 2 Eurofast branches, 5-wire & 1 Eurofast trunk, 5-wire	Parallel 5-wire
	**YBZ2-PSG4M-*/2PKG3M-*/***	125 V, 2 A, PSG 4M = Yellow PVC,4.4 mm OD, 4x26 AWG, PKG 3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast® branches, 3-wire & 1 Picofast trunk, 4-wire	Standard
	YBZ2-PSG3M-*/2PKG3M-*/*/S651	125 V, 4 A, PSG 3M & PKG 3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast branches, 3-wire & 1 Picofast trunk, 3-wire	Parallel 3-wire
	**YBZ2-RS4.5T-*/2VAS22-A653-*/***	220 V, 4 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, VAS22 = Grey PVC, 6.2 mm OD, 3x18 AWG, 2 valve branches, 3-wire & 1 Eurofast trunk, 4-wire	Standard valve

* Length in meters.

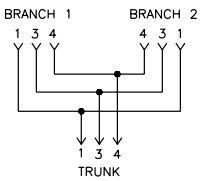
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

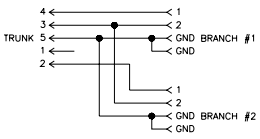
Standard



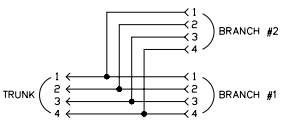
Parallel, 3-wire



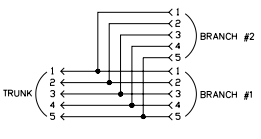
Standard, valve



Parallel, 4-wire



Parallel, 5-wire



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

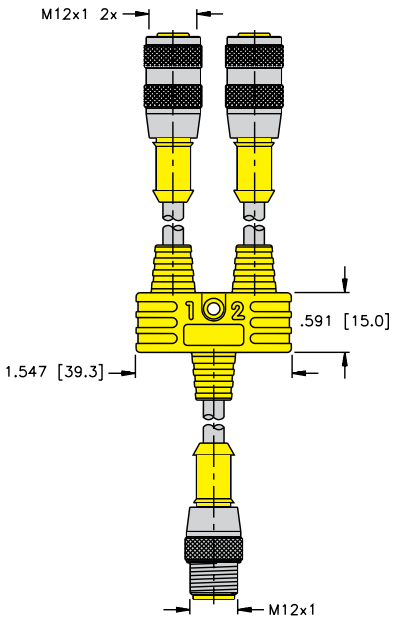
M12 Eurofast® 2-Branch Compact Splitters, Trunk and Branch Extensions

Specifications

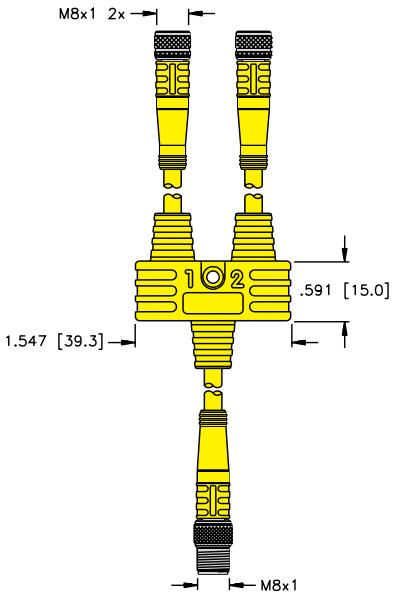
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP68

Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey/yellow PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV, PSG to PSGV, RK to RKV).
Notes: Mounting hole accepts #4 screw.

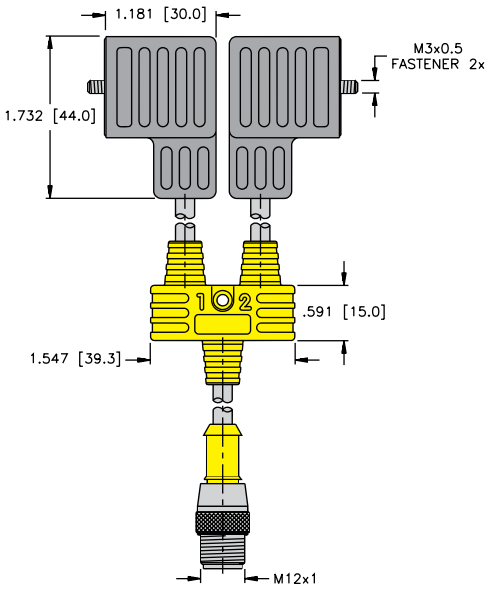
YBZ2-RS 4.4(5)T-*/2RK 4(.4)(.5)T-*/*



YBZ2-PSG 3(4)M-*/2PKG 3M-*/*

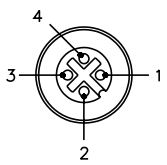
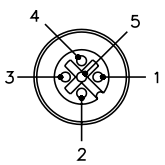
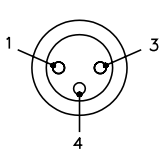
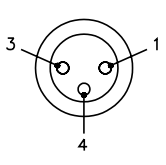
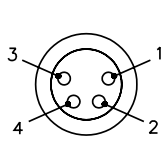
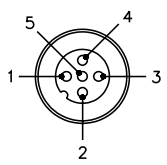


YBZ2-RS 4.5T-*/2VAS22-A653-*/*



We reserve the right to make technical alterations without prior notice.

Pinouts

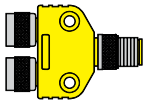
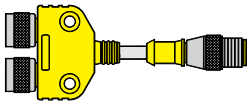
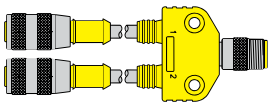
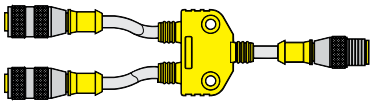
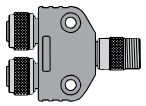
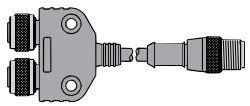
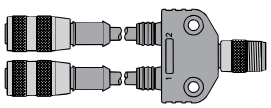
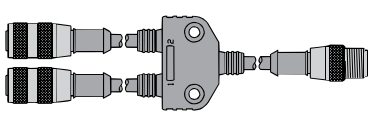
4-Pin Eurofast	5-Pin Eurofast	3-Pin Picofast®	3-Pin Picofast	4-Pin Picofast	5-Pin Eurofast
Female			Male		
					

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

Splitters

Eurofast® 2-Branch Splitters, Standard and LED Wiring

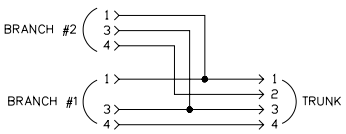
- **Combine two Sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**
- **For 3-wire DC Sensors or Switches**

Housing	Part Number	Features	Wiring Diagram
	**VB2-FSM 4.4/2FKM 4**	250 V, 4.0 A, combine two sensors into one cable	Standard
	**VB2-RS 4.4T-*/2FKM 4**	250 V, 4.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, combine two sensors into one cable	
	**VB2-FSM 4.4/2RK 4T-*/***	250 V, 4.0 A, Grey PVC, 5.1 mm OD, RK 4T - 3x20 AWG, combine two sensors into one cable	
	**VB2-RS 4.4T-*/2RK 4T-*/***	250 V, 4.0 A, Grey PVC, 5.1 mm OD, RK 4T - 3x20 AWG, RS 4.4T - 4x22 AWG, combine two sensors into one cable	
	**VB2P3-FSM 4.4/2FKM 4**	10-30 VDC, 4.0 A, combine two sensors into one cable; 3 LEDs, 2 signals, PNP, 1 power	LED
	**VB2P3-RS 4.4T-*/2FKM 4**	10-30 VDC, 4.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, combine two sensors into one cable; 3 LEDs, 2 signals, PNP, 1 power	
	**VB2P3-FSM 4.4/2RK 4T-*/***	10-30 VDC, 4.0 A, Grey PVC, 5.1 mm OD, RK 4T - 3x20 AWG, combine two sensors into one cable; 3 LEDs, 2 signals, PNP, 1 power	
	**VB2P3-RS 4.4T-*/2RK 4T-*/***	10-30 VDC, 4.0 A, Grey PVC, 5.1 mm OD, RK 4T - 3x20 AWG, RS 4.4T - 4x22 AWG, combine two sensors into one cable; 3 LEDs, 2 signals, PNP, 1 power	

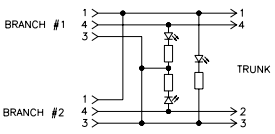
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

Standard



LED



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

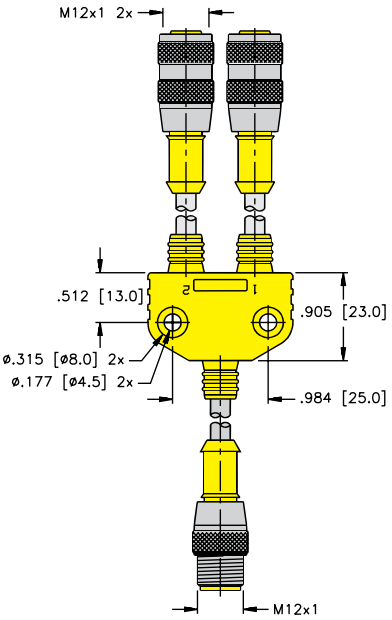
Eurofast® 2-Branch Splitters, Standard and LED Wiring

Specifications

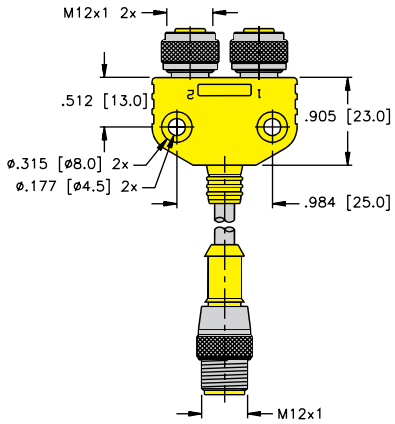
Junction Body:	Oil resistant yellow TPU (non-LED) Translucent black TPU (LED)	**Coupling Nuts:**	Nickel plated brass
		Cable:	See table
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting hole accepts #8 screw.

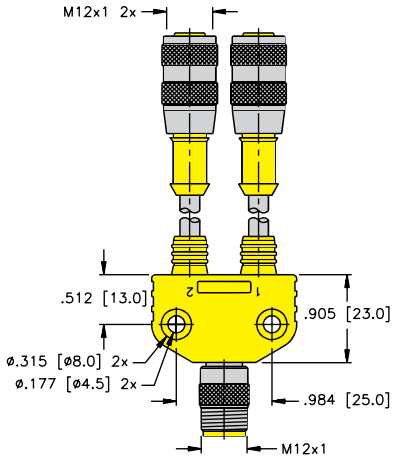
VB2-RS 4.4T-*/2RK 4T-*/*
VB2-PX3-RS 4.4T/2RK 4T-*/*



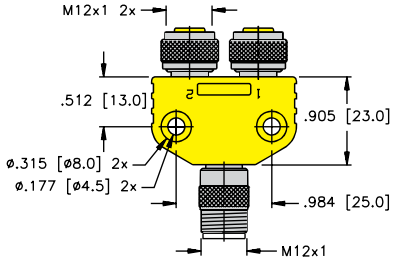
VB2-RS 4.4T-*/2FKM 4
VB2-PX3-RS 4.4T-*/2FKM 4



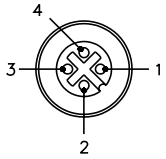
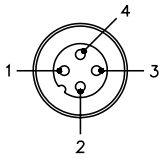
VB2-FSM 4.4/2RK 4T-*/*
VB2-PX3-FSM 4.4/2RK 4T-*/*



VB2-FSM 4.4/2FKM 4
VB2-PX3-FSM 4.4/2FKM 4



Pinouts

4-Pin	
Female	**Male**
	

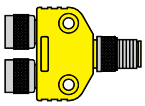
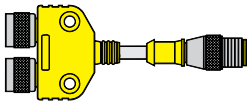
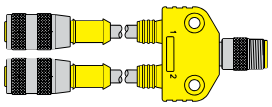
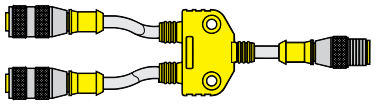
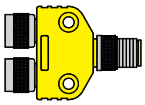
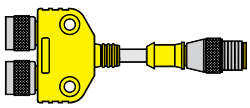
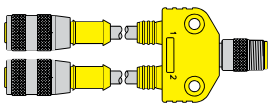
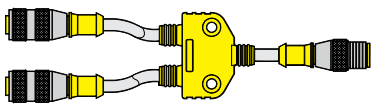
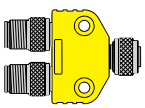
We reserve the right to make technical alterations without prior notice.

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

Splitters

M12 Eurofast® 2-Branch Splitters, Parallel Wiring, Shielded Option

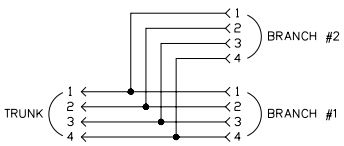
- **For use on Photoelectric Controls, Power Distribution, and other Dual-Input applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**VB2-FSM 4.4/2FKM 4.4/S651**	250 V, 4.0 A, parallel wired, 4 conductor	Parallel
	**VB2-RS 4.4T-*/2FKM 4.4/S651**	250 V, 4.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, parallel wired, 4 conductor	Parallel
	**VB2-FSM 4.4/2RK 4.4T-*/*/S651**	250 V, 4.0 A, RK 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, parallel wired, 4 conductor	Parallel
	**VB2-RS 4.4T-*/2RK 4.4T-*/*/S651**	250 V, 4.0 A, Grey PVC, 5.1 mm OD, 4x22 AWG, parallel wired, 4 conductor	Parallel
	**VB2-FSM 4.5/2FKM 4.5/S651**	250 V, 4.0 A, parallel wired, 5 conductor	Parallel
	VB2-FSMS 4.5/2FKMS 4.5/S651	250 V, 4.0 A, parallel wired, Shielded, 5 conductor	Parallel, Shielded
	**VB2-RS 4.5T-*/2FKM 4.5/S651**	250 V, 4.0 A, RS 4.5T = Grey PVC, 5.7 mm OD, 5x22 AWG, parallel wired, 5 conductor	Parallel
	**VB2-FSM 4.5/2RK 4.5T-*/*/S651**	250 V, 4.0 A, RK 4.5T = Grey PVC, 5.7 mm OD, 5x22 AWG, parallel wired, 5 conductor	Parallel
	**VB2-RS 4.5T-*/2RK 4.5T-*/*/S651**	250 V, 4.0 A, Grey PVC, 5.7 mm OD, 5x22 AWG, parallel wired, 5 conductor	Parallel
	**VB2-FKMS 4.5/2FSMS 4.5/S651**	250 V, 4.0 A, parallel wired, shielded, 5 conductor	Parallel, Shielded

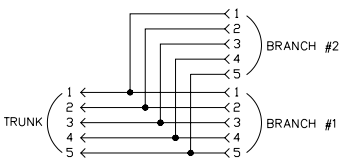
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

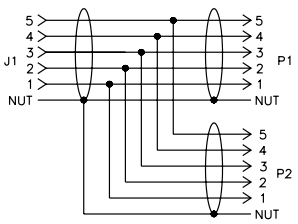
Parallel, 4-pin



Parallel, 5-pin



Parallel, Shielded, 5-pin



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

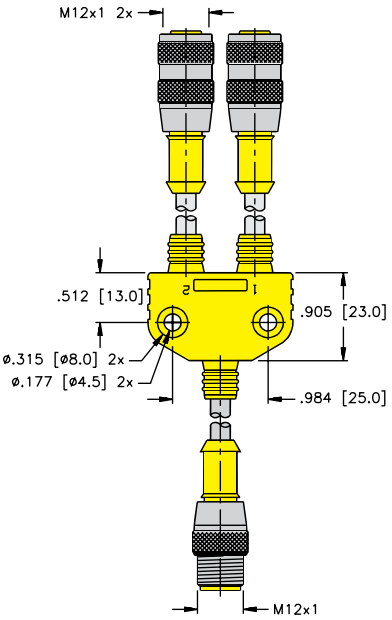
M12 Eurofast® 2-Branch Splitters, Parallel Wiring, Shielded Option

Specifications

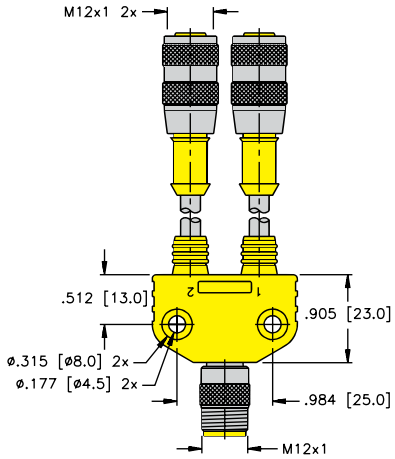
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67, IEC IP60 (shielded)

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

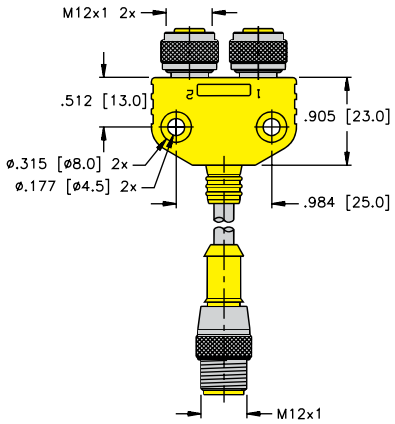
VB2-RS 4.4(5)T-*/2RK 4.4(5)T-*/*/S651



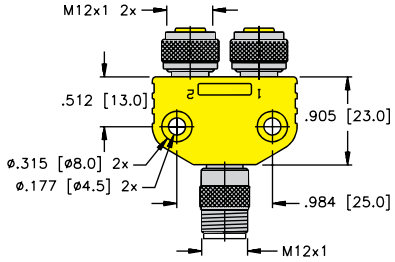
VB2-FSM 4.4(5)/2RK 4.4(5)T-*/*/S651



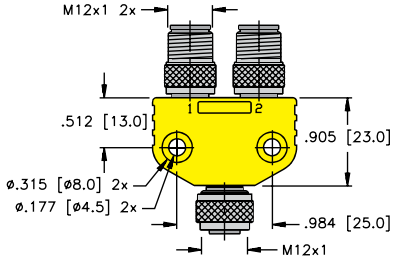
VB2-RS 4.4(5)T-*/2FKM 4.4(5)/S651



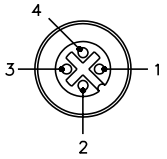
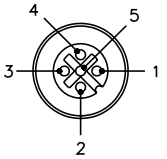
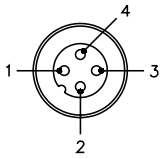
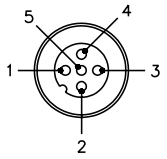
VB2-FSM(S) 4.4(5)/2FKM(S) 4.4(5)/S651



VB2-FKMS 4.5/2FSMS 4.5/S651



Pinout

4-Pin	5-Pin	4-Pin	5-Pin
Female		Male	
			

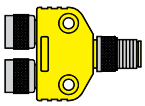
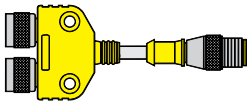
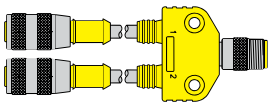
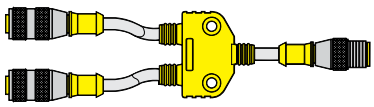
We reserve the right to make technical alterations without prior notice.

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

Splitters

M12 Eurofast® 2-Branch Splitters, Series Wiring

- **Combine two Sensors into one Cable**
- **Series Wired**
- **Tough TPU Construction**
- **For 3-wire DC Sensors or Switches**

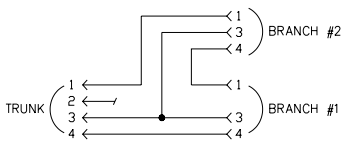
Housing	Part Number	Features	Wiring Diagram
	**VB2-FSM 4.4/2FKM 4/S719**	250 V, 4.0 A, series wired for AND function (PNP signals)	Series
	**VB2-RS 4.4T-*/2FKM 4/S719**	250 V, 4.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, series wired for AND function (PNP signals)	
	**VB2-FSM 4.4/2RK 4T-*/*/S719**	250 V, 4.0 A, RK 4T = Grey PVC, 5.1 mm OD, 3x20 AWG, series wired for AND function (PNP signals)	
	**VB2-RS 4.4T-*/2RK 4T-*/*/S719**	250 V, 4.0 A, Grey PVC, 5.1 mm OD, RK 4T - 3x20 AWG, RS 4.4T - 4x22 AWG, series wired for AND function (PNP signals)	

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

Series



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

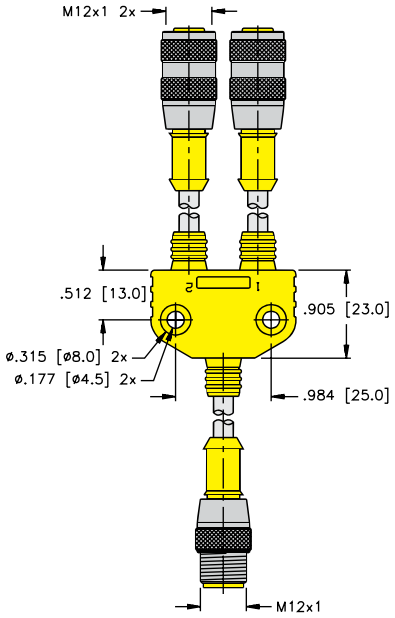
M12 Eurofast® 2-Branch Splitters, Series Wiring

Specifications

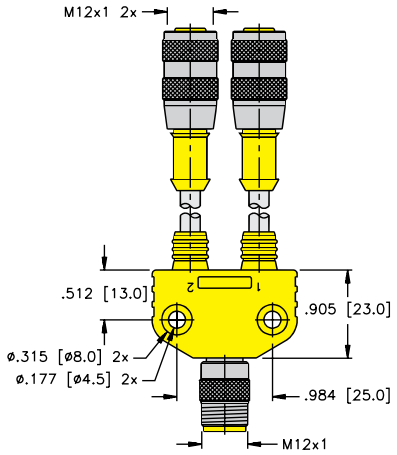
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

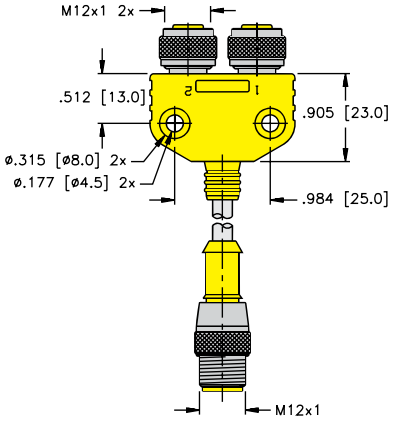
VB2-RS 4.4T-*/2RK 4T-*/*/S719



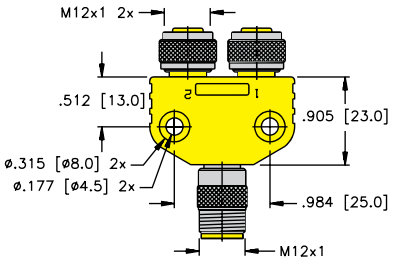
VB2-FSM 4.4/2RK 4T-*/*/S719



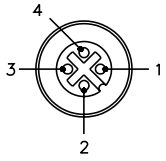
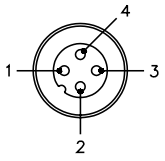
VB2-RS 4.4T-*/2FKM 4/S719



VB2-FSM 4.4/2FKM 4/S719



Pinouts

4-Pin	4-Pin
Female	Male
	

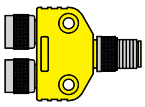
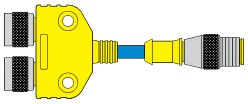
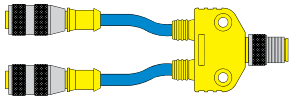
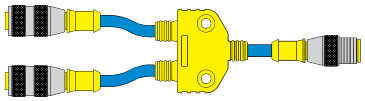
We reserve the right to make technical alterations without prior notice.

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

Splitters

M12 Eurofast® 2-Branch Splitters, NAMUR Wiring

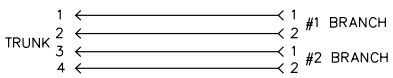
- **Combine two NAMUR Sensors into one Cable**
- **Tough TPU Construction**
- **For use with NAMUR Junction Boxes**

Housing	Part Number	Features	Wiring Diagram
	**VB2-FSM 4.41/2FKM 4.21**	250 V, 4.0 A, combine two NAMUR sensors into one cable	NAMUR
	**VB2-RS 4.41T-*/2FKM 4.21**	250 V, 4.0 A, RS 4.41T = Blue PVC, 5.1 mm OD, 4x22 AWG, combine two NAMUR sensors into one cable	
	**VB2-FSM 4.41/2RK 4.21T-*/***	250 V, 4.0 A, RK 4.21T = Blue PVC, 5.1 mm OD, 2x20 AWG, combine two NAMUR sensors into one cable	
	**VB2-RS 4.41T-*/2RK 4.21T-*/***	250 V, 4.0 A, Blue PVC, 5.1 mm OD, RK 4.21T – 2x20 AWG, RS 4.41T – 4x22 AWG, combine two NAMUR sensors into one cable	

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Namur Wiring Diagram



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

M12 Eurofast® 2-Branch Splitters, NAMUR Wiring

Specifications

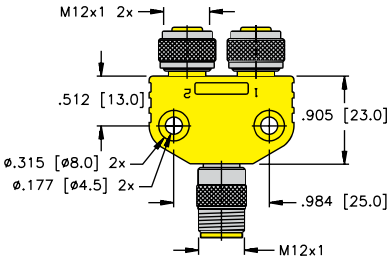
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.

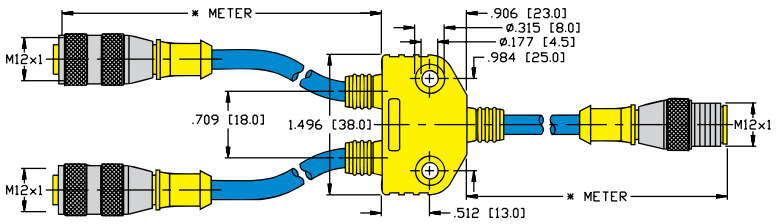
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).

Notes: Mounting holes accept #8 screw.

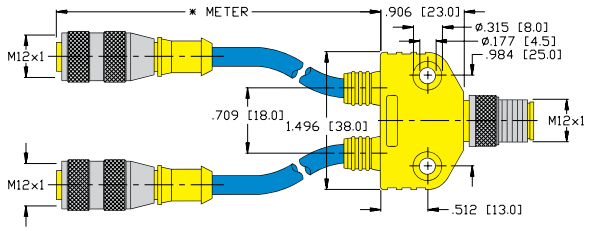
VB2-FSM 4.41/2FKM 4.21



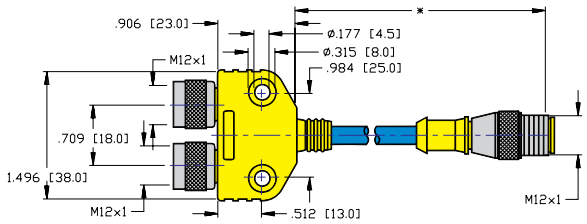
VB2-RS 4.41T-*/2RK 4.21T-*/*



VB2-FSM 4.41/2RK 4.21T-*/*

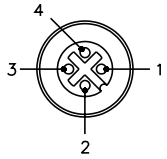
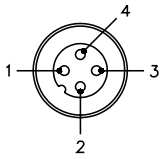


VB2-RS 4.41T-*/2FKM 4.21



We reserve the right to make technical alterations without prior notice.

Pinouts

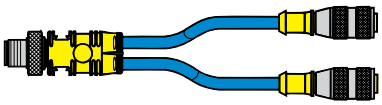
4-Pin	
Female	**Male**
	

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

Splitters

M12 Eurofast® 2-Branch Splitters, NAMUR Wiring

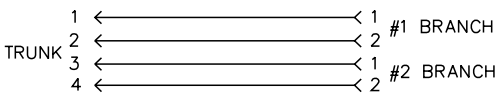
- **Combine two NAMUR Sensors into one Cable**
- **Eurofast Connection features Anti-Vibration Coupling Nut (main leg only)**
- **Tough TPU Body resists Oil and Abrasion**
- **Compact size saves space**

Housing	Part Number	Features	Wiring Diagram
	**VBRS 4.41-2RK 4.21T-*/***	250 V, 4.0 A, 2x20 AWG, Blue PVC, 5.1 mm OD, combine two NAMUR sensors into one cable. Connects directly to Eurofast junction box.	NAMUR

* Length in meters.
To add mounting hole, add /S857 to the end of the part number.

We reserve the right to make technical alterations without prior notice.

Namur Wiring Diagram



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

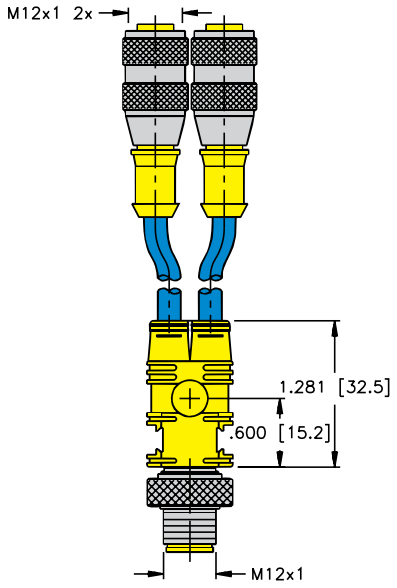
M12 Eurofast® 2-Branch Splitters, NAMUR Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Cable:**	See table
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)
		Protection:	NEMA 1, 3, 4, 6P and IEC IP67
Contacts:	Gold plated brass, machined from solid stock	**Accessories:**	KS 5/10 labels 2 of each included
Coupling Nuts:	Nickel plated brass		

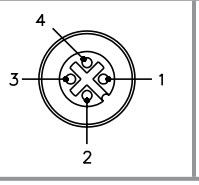
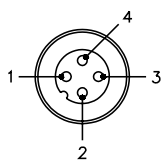
Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.

VBRS 4.41-2RK 4.21T-*/*



We reserve the right to make technical alterations without prior notice.

Pinouts

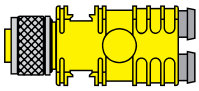
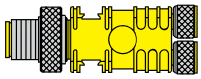
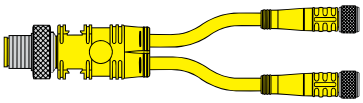
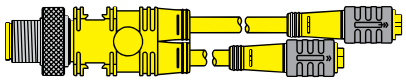
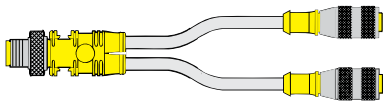
4-Pin	
Female	**Male**
	

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

Splitters

M12 Eurofast® and M8 Picofast® 2-Branch Molded Splitters

- **Combine two Picofast or Eurofast Connections into one Eurofast Receptacle**
- **Eurofast Connection features Anti-vibration Coupling Nut (main leg only)**
- **Compact size saves space**
- **Tough TPU Body resists Oil and Abrasion**

Housing	Part Number	Features	Wiring Diagram
	**VBRK 4.4-2ESM 3S**	60 VAC/75 VDC, 4.0 A, for sensors with complementary outputs, splits signals. Branches have snap lock	Diagram A
	**VBRS 4.4-2SKM 3**	60 VAC/75 VDC, 4.0 A, combine two sensors into one cable. Connects directly to Eurofast junction box. Branches have threaded coupling nut	Diagram B
	**VBRS 4.4-2PKG 3M-*/***	60 VAC/75 VDC, 4.0 A, 3x24 AWG, Yellow PVC, 4.4 mm OD, combine two sensors into one cable. Connects directly to Eurofast junction box. Branches have threaded coupling nut	Diagram B
	**VBRS 4.4-2PKG 3Z-*/***	60 VAC/75 VDC, 4.0 A, 3x24 AWG, Yellow PVC, 4.4 mm OD, combine two sensors into one cable. Connects directly to Eurofast junction box. Branches have snap lock	Diagram B
	**VBRS 4.4-2RK 4T-*/***	250 V, 4.0 A, 3x20 AWG, Grey PVC, 5.1 mm OD, combine two sensors into one cable. Connects directly to Eurofast junction box	Diagram B

* Length in meters.
To add mounting hole, add /S857 to the end of the part number.

We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

Diagram A

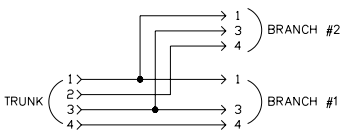
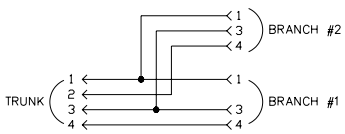


Diagram B



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

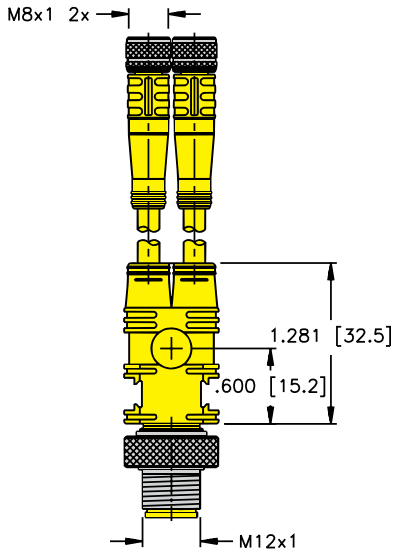
M12 Eurofast® and M8 Picofast® 2-Branch Molded Splitters

Specifications

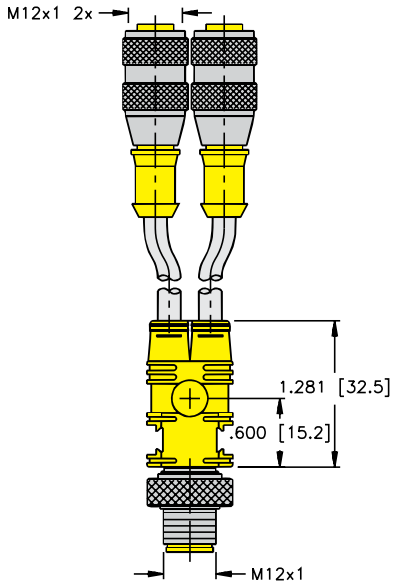
Junction Body:	Oil resistant yellow TPU	**Cable:**	See table
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Temperature:**	-40 °C to +105 °C (-40 °F to +221 °F)
		Protection:	NEMA 1, 3, 4, 6P and IEC IP67
Contacts:	Gold plated brass	**Accessories:**	KS 5/10 labels included
Coupling Nuts:	Nickel plated brass. POM locking sleeve		

Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.

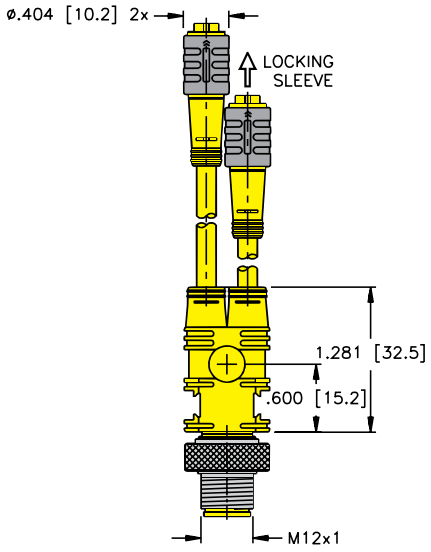
VBRS 4.4-2PKG 3M-*/*



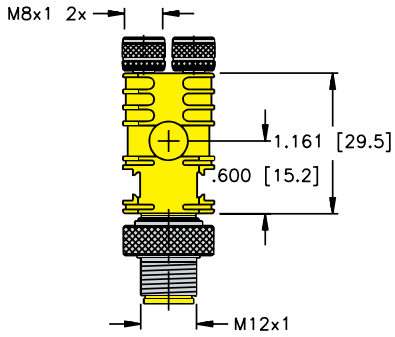
VBRS 4.4-2RK 4T-*/*



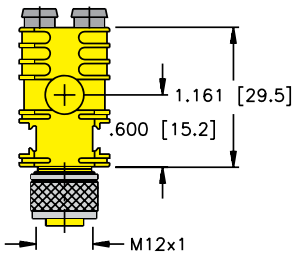
VBRS 4.4-2PKG 3Z-*/*



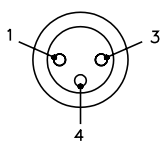
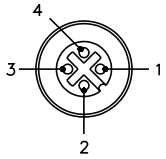
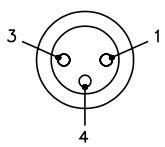
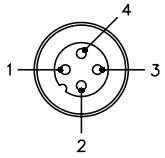
VBRS 4.4-2SKM 3



VBRK 4.4-2ESM 3S



Pinout

3-Pin Picofast	4-Pin Eurofast	3-Pin Picofast	4-Pin Eurofast
Female		Male	
			

We reserve the right to make technical alterations without prior notice.

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

Splitters

M12 Eurofast® 2-Branch Splitters with Valve Plugs

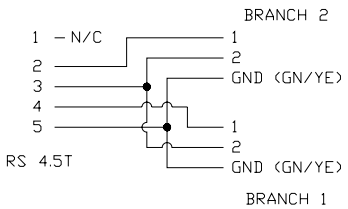
- **Combine two Valve Plugs into one Eurofast**
- **For use with Eurofast J-boxes with 2 Signals Port**
- **Available with all Valve Plug styles (A, B, I and C)**

Part Number	Features	Wiring Diagram
VB2-RS 4.5T-*/2VAS 22-A528-*/*	220 V, 4.0 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, Valve plug = Grey PVC, 5.1 mm OD 3x20 AWG, combine two valve plugs into one cable. For use with 2 signal / port junction boxes. "A" style (18 mm) valve plugs.	Diagram A
VB2-RS 4.5T-*/2VBS 2-A528-*/*	220 V, 4.0 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, Valve plug = Grey PVC, 5.1 mm OD 3x20 AWG, combine two valve plugs into one cable. For use with 2 signal / port junction boxes. "B" style (10 mm) valve plugs.	
VB2-RS 4.5T-*/2VIS 2-A528-*/*	220 V, 4.0 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, Valve plug = Grey PVC, 5.1 mm OD 3x20 AWG, combine two valve plugs into one cable. For use with 2 signal / port junction boxes. "I" style (11 mm) valve plugs.	
VB2-RS 4.5T-*/2TC8S 2-A528-*/*	220 V, 4.0 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, Valve plug = Grey PVC, 5.1 mm OD 3x20 AWG, combine two valve plugs into one cable. For use with 2 signal / port junction boxes. "C" style (8 mm) valve plugs.	
VB2-RS 4.5T-*/2TC9S 2-A528-*/*	220 V, 4.0 A, RS 4.5T = Grey PVC, 5.1 mm OD, 4x22 AWG, Valve plug = Grey PVC, 5.1 mm OD 3x20 AWG, combine two valve plugs into one cable. For use with 2 signal / port junction boxes. "C" style (9.4 mm) valve plugs.	

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Diagram A



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

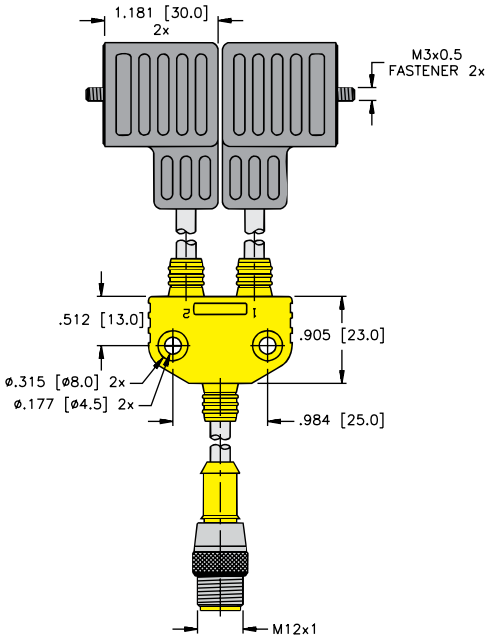
M12 Eurofast® 2-Branch Splitters with Valve Plugs

Specifications

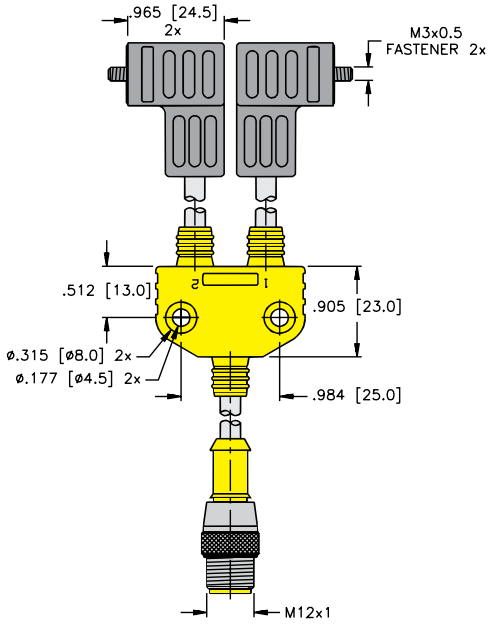
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass (Eurofast). Silver plated copper alloy (VALVE PLUG)	**Protection:**	IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Other jackets available by request - consult factory.
Valve Options: Available w/LED or LED+MOV, consult factory.
Eurofast Options: Stainless steel coupling nut add "V" to part number (RS .. to RSV ..).
Nylon coupling nut add "K" to part number (RS .. to RSK ..).
Right angle connectors, change part number (RS .. to WS..).

VB2-RS 4.5T-*/2V ..S 2 ..-A528-*/*

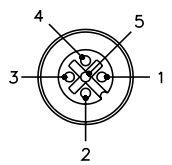
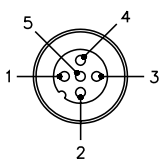


VB2-RS 4.5T-*/2TC .. S 2-A528-*/*



We reserve the right to make technical alterations without prior notice.

Pinouts

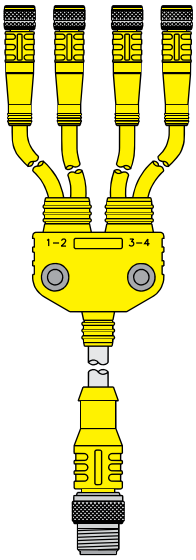
5-Pin Eurofast	5-Pin Eurofast
Female	Male
	

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

Splitters

M12 Eurofast® 4-Branch Splitters, Standard Wiring

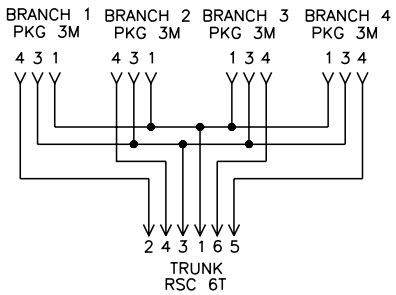
- **Combine four Sensors into one Cable**
- **Tough TPU Construction**
- **For 3-wire DC Sensors or Switches**

Housing	Part Number	Features	Wiring Diagram
	**V6RSC-*/PKG3M-*/*/*/***	60 VAC/75 VDC, 2.0 A, RSC 6T = Grey PVC, 5.7 mm OD, 6x24 AWG, PKG = Yellow PVC, 4.4 mm OD, 3x24 AWG, combine four sensors into one cable	Standard

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

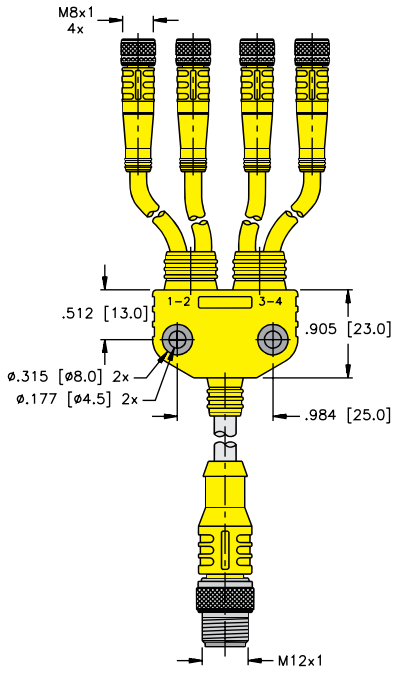
M12 Eurofast® 4-Branch Splitters, Standard Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

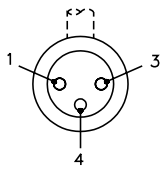
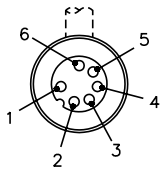
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV).
Notes: Mounting hole accepts #8 screw.

V6RSC-*/PKG3M-*/*/*/*



We reserve the right to make technical alterations without prior notice.

Pinouts

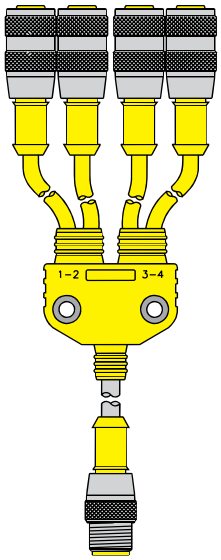
3-Pin	6-Pin
Female	Male
	

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

Splitters

M12 Eurofast® 4-Branch Splitters, Standard Wiring

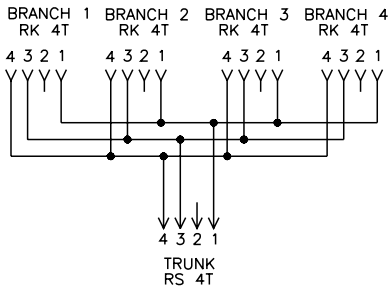
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V3RS-*/RK4-*/*/*/*/S651**	60 VAC /75 VDC, 2.0 A, Yellow PVC, 4.4 mm OD, 3x24 AWG, parallel wired, 3 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

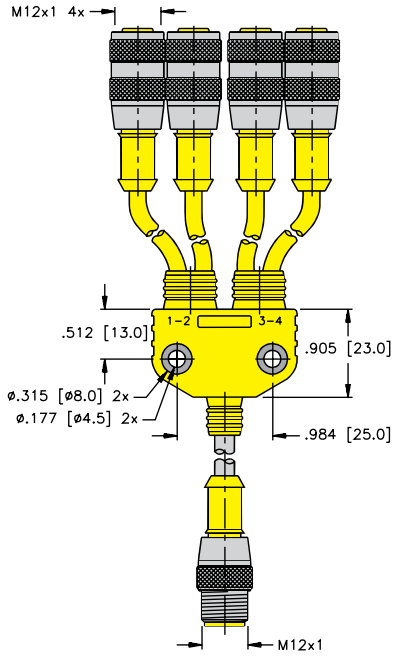
M12 Eurofast® 4-Branch Splitters, Standard Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

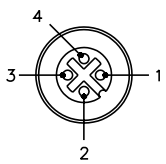
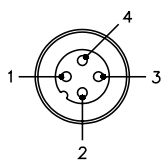
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

V3RS-*/RK4-*/*/*/*/S651



We reserve the right to make technical alterations without prior notice.

Pinouts

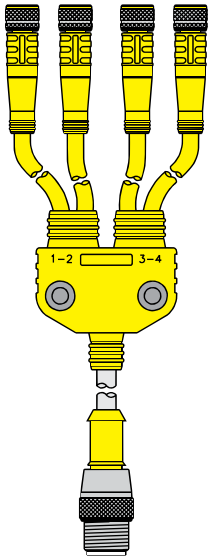
4-Pin	
Female	**Male**
	

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

Splitters

M12 Eurofast® 4-Branch Splitters, Parallel Wiring

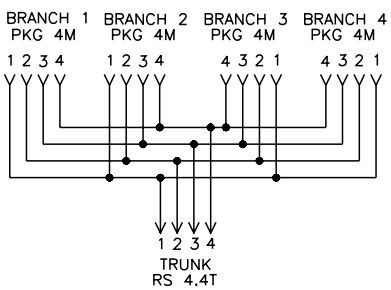
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V4RS-*/PKG4M-*/*/*/*/S651**	125 VAC / VDC, 2.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, PKG 4M = Yellow PVC, 4.4 mm OD, 4x26 AWG, parallel wired, 4 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

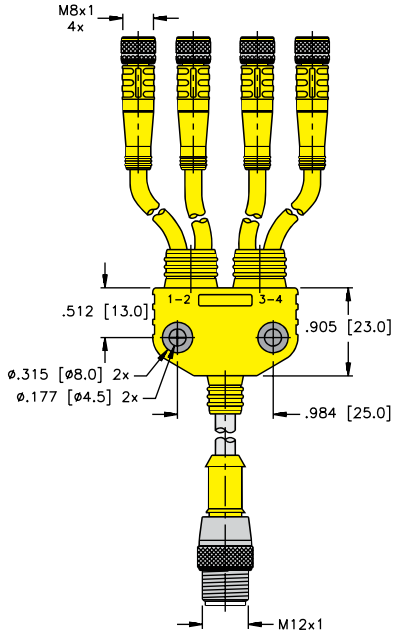
M12 Eurofast® 4-Branch Splitters, Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

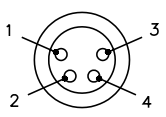
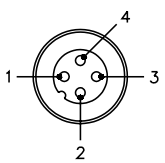
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PSG to PSGV, PKG to PKGV).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

V4RS-*/PKG4M-*/*/*/*/S651



We reserve the right to make technical alterations without prior notice.

Pinouts

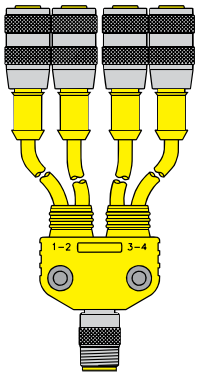
4-Pin	
Female	**Male**
	

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

Splitters

M12 Eurofast® 4-Branch Splitters, Parallel Wiring

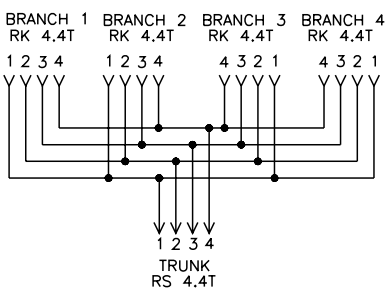
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V4FSM/RK4.4-*/*/*/*/S651**	250 V, 2.0 A, RK 4.4T = Yellow PVC, 4.4 mm OD, 4x26 AWG, parallel wired, 4 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

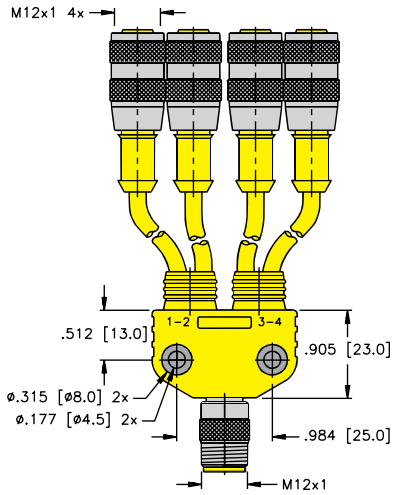
M12 Eurofast® 4-Branch Splitters, Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

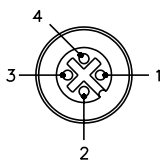
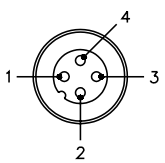
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

V4FSM/RK4.4-*/*/*/*/S651



We reserve the right to make technical alterations without prior notice.

Pinouts

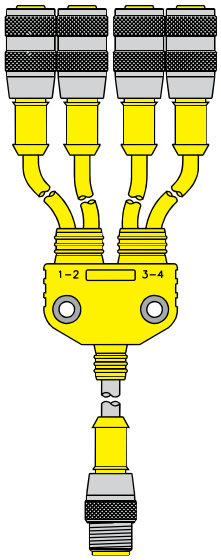
4-Pin	
Female	Male
	

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

Splitters

M12 Eurofast® 4-Branch Splitters, Parallel Wiring

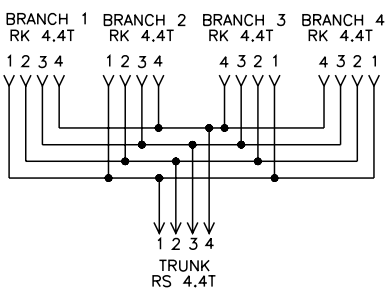
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V4RS-*/RK4.4-*/*/*/*/S651**	250 V, 2.0 A, RS 4.4T = Grey PVC, 5.1 mm OD, 4x22 AWG, RK 4.4T = Yellow PVC, 4.4 mm OD, 4x26 AWG, parallel wired, 4 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

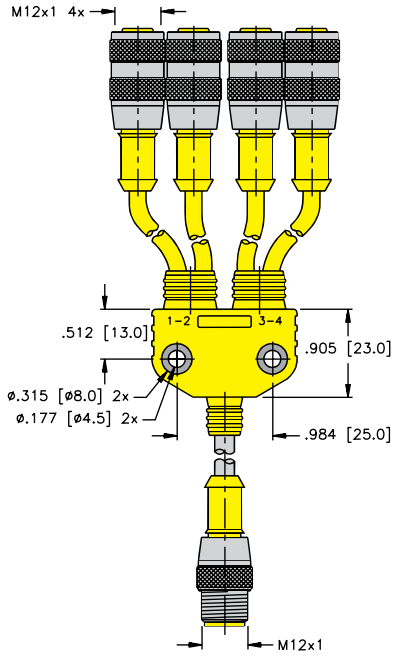
M12 Eurofast® 4-Branch Splitters, Parallel Wiring

Specifications

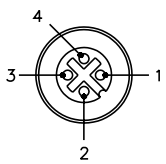
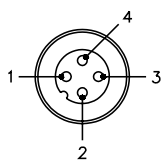
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

V4RS-*/RK4.4-*/*/*/*/S651



Pinouts

4-Pin	
Female	Male
	

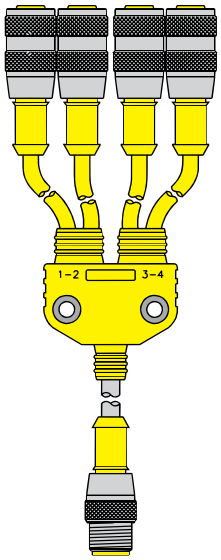
We reserve the right to make technical alterations without prior notice.

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

Splitters

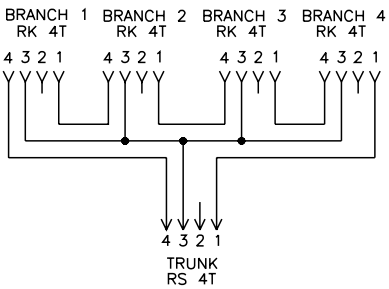
M12 Eurofast® 4-Branch Splitters, Series Wiring

- **Combine four Sensors into one Cable**
- **Series Wired**
- **Tough TPU Construction**
- **For 3-wire DC Sensors or Switches**

Housing	Part Number	Features	Wiring Diagram
	**V3RS-*/RK 4-*/*/*/*/S719**	60 VAC/75 VDC, 2.0 A, Grey PVC, 4.4 mm OD, 3x24 AWG, series wired for and function PNP signals	Series

* Length in meters.

Wiring Diagram



We reserve the right to make technical alterations without prior notice.

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

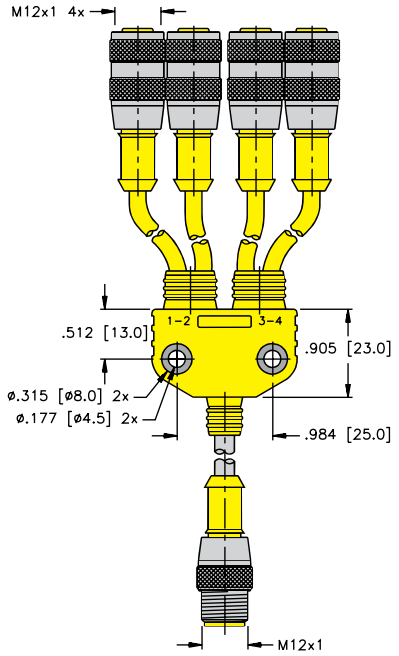
M12 Eurofast® 4-Branch Splitters, Series Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

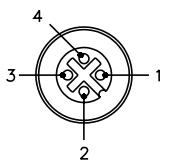
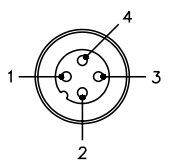
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

V3RS-*/RK 4-*/*/*/*/S719



We reserve the right to make technical alterations without prior notice.

Pinouts

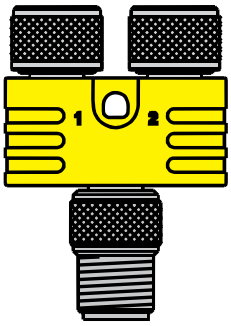
4-Pin	
Female	**Male**
	

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

Splitters

M8 Picofast® 2-Branch Compact Splitters, Standard and LED Wiring

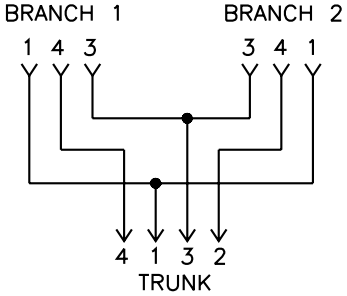
- **Combine two Sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**
- **IEC IP67 Protection**

Housing	Part Number	Features	Wiring Diagram
	YP2-MFS 4/2MFK 3	125 V, 2 A, 2 Picofast branches, 3-wire & 1 Picofast trunk, 4-wire	Standard 3-wire
	**YP2-PX2-MFS 4/2MFK 3**	30 V, 2 A, 2 Picofast branches, 3-wire & 1 Picofast trunk, 4-wire, LEDs	LED 3-wire

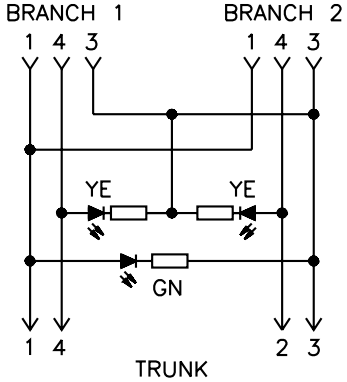
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

Standard 3-wire



LED 3-wire



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

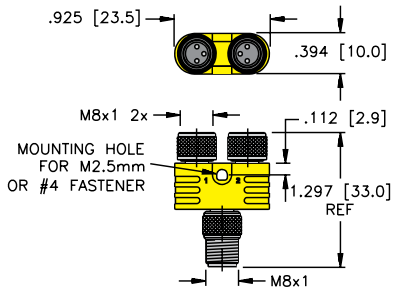
M8 Picofast® 2-Branch Compact Splitters, Standard and LED Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
		Protection:	NEMA 1, 3, 4, 6P and IEC IP67
Contacts:	Gold plated brass		

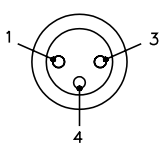
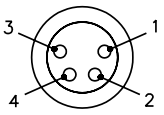
Notes: Mounting hole accepts #4 screw.

YP2-(PX2)MFS4/2MFK3



We reserve the right to make technical alterations without prior notice.

Pinouts

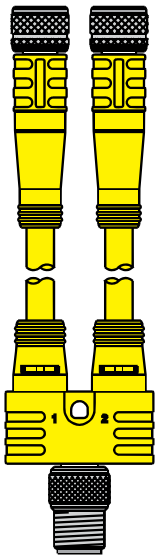
3-pin Picofast	4-pin Picofast
Female	Male
	

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

Splitters

M8 Picofast® 2-Branch Compact Splitters, Standard and Parallel Wiring

- **Combine two Sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**
- **IEC IP67 Protection**

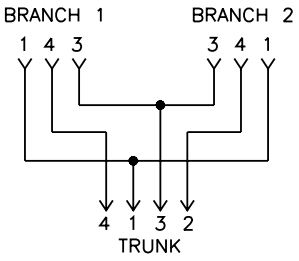
Housing	Part Number	Features	Wiring Diagram
	**YP2-MFS3/2PKG3M-*/*/S651**	125 V, 4 A, PKG 3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast branches, 3-wire & 1 Picofast trunk, 3-wire	Parallel 3-wire
	YP2-MFS4/2PKG3M-*/*	125 V, 2 A, PKG 3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast branches, 3-wire & 1 Picofast trunk, 4-wire	Standard 3 to 4-wire
	YP2-MFS4/2PKG4M-*/*/S651	125 V, 2 A, PKG 4M = Yellow PVC, 4.4 mm OD, 4x26 AWG, 2 Picofast branches, 4-wire & 1 Picofast trunk, 4-wire	Parallel 4-wire

* Length in meters.

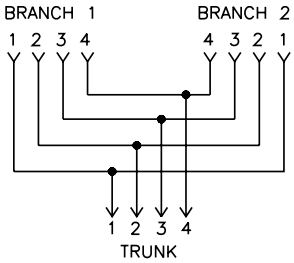
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

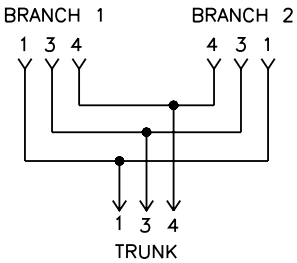
Standard 3 to 4-wire



Parallel 4-wire



Parallel 3-wire



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

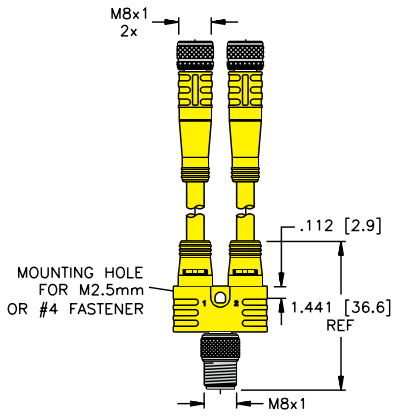
M8 Picofast® 2-Branch Compact Splitters, Standard and Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP67

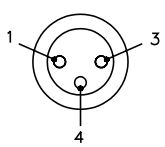
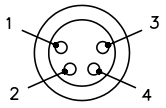
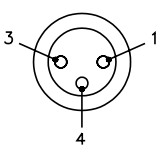
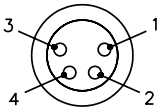
Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey/yellow PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV, PSG to PSGV, RK to RKV).
Notes: Mounting hole accepts #4 screw.

YP2-MFS3(4)/2PKG3(4)M-*/*(/S651)



We reserve the right to make technical alterations without prior notice.

Pinouts

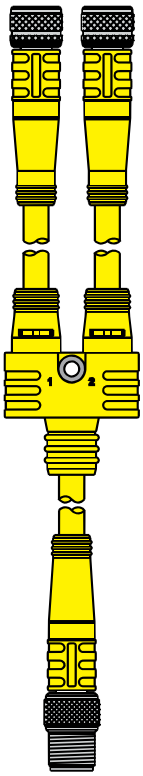
3-Pin Picofast	4-pin Picofast	3-Pin Picofast	4-pin Picofast
Female		Male	
			

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

Splitters

M8 Picofast® 2-Branch Compact Splitters, Standard and Parallel Wiring

- **Combine two Sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**
- **IEC IP67 Protection**

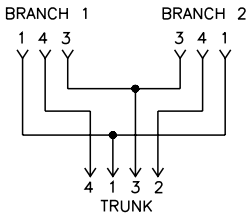
Housing	Part Number	Features	Wiring Diagram
	**YP2-PSG3M-*/2PKG3M-*/*/S651**	125 V, 4 A, PSG 3M & PKG3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast branches, 3-wire & 1 Picofast trunk, 3-wire	Parallel 3-wire
	YP2-PSG4M-*/2PKG3M-*/*	125 V, 2 A, PSG 4M = Yellow PVC, 4.4 mm OD, 4x26 AWG, PKG3M = Yellow PVC, 4.4 mm OD, 3x24 AWG, 2 Picofast branches, 3-wire & 1 Picofast trunk, 4-wire	Standard 3 to 4-wire
	YP2-PSG4M-*/2PKG4M-*/*/S651	125 V, 2 A, PSG 4M & PKG4M = Yellow PVC, 4.4 mm OD, 4x26 AWG, 2 Picofast branches, 4-wire & 1 Picofast trunk, 4-wire	Parallel 4-wire
	YP2-PSG6M-*/2PKG6M-*/*/S651	125 V, 2 A, PSG 6M & PKG 6M = Yellow PVC, 4.5 mm OD, 6x26 AWG, 2 Picofast branches, 6-wire & 1 Picofast trunk, 6-wire	Parallel 6-wire

* Length in meters.

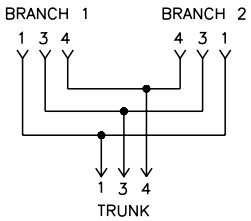
We reserve the right to make technical alterations without prior notice.

Wiring Diagrams

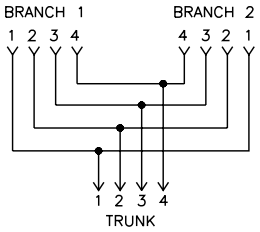
Standard, 3 to 4-wire



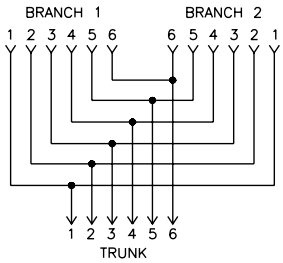
Parallel, 3-wire



Parallel, 4-wire



Parallel, 6-wire



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

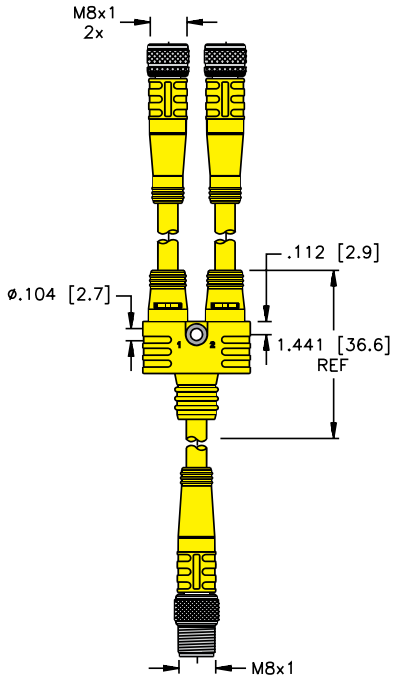
M8 Picofast® 2-Branch Compact Splitters, Standard and Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP67

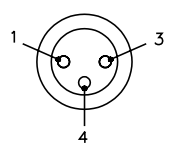
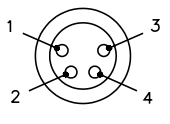
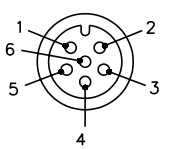
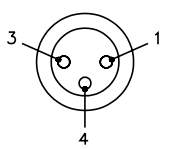
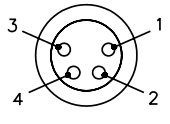
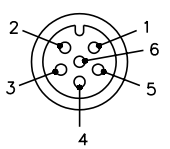
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey/yellow PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV, PSG to PSGV, RK to RKV).
Notes: Mounting hole accepts #4 screw.

YP2-PSG3(4,6)M-*/2PKG3(4,6)M-*/*(/S651)



We reserve the right to make technical alterations without prior notice.

Pinouts

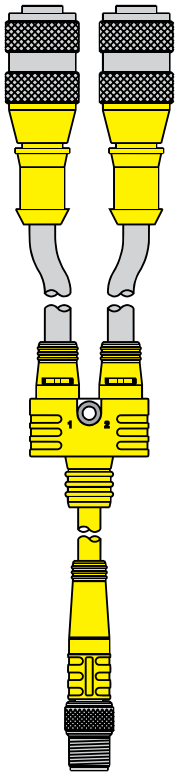
3-pin Picofast	4-pin Picofast	6-pin Picofast	3-pin Picofast	4-pin Picofast	6-pin Picofast
Female			Male		
					

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

Splitters

M8 Picofast® 2-Branch Compact Splitters, Standard Wiring

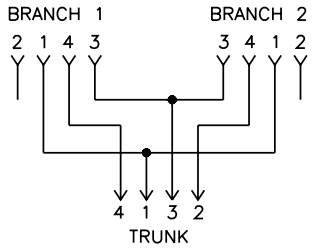
- **Combine two Sensors into one Cable**
- **For use on Cylinders and other Dual-Input applications**
- **Tough TPU Construction**
- **IEC IP67 Protection**

Housing	Part Number	Features	Wiring Diagram
	**YP2-PSG4M-*/2RK4T-*/***	125 V, 2 A, PSG 4M = Yellow PVC, 4.4 mm OD, 4x26 AWG, RK 4T = Grey PVC, 5.1 mm OD, 3x20 AWG, 2 Eurofast® branches, 4-wire & 1 Picofast trunk, 4-wire	Standard

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

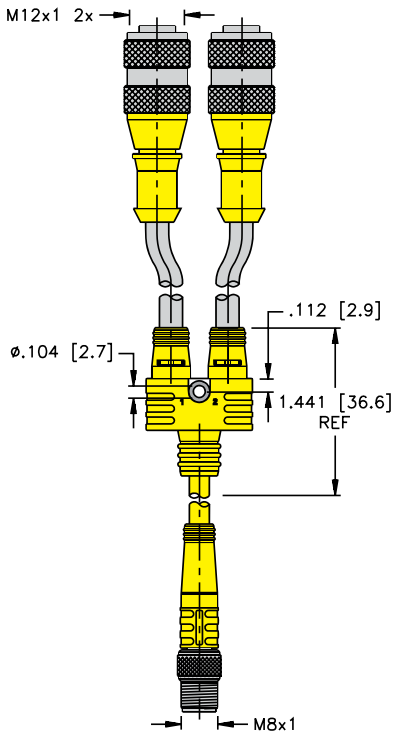
M8 Picofast® 2-Branch Compact Splitters, Standard Wiring

Specifications

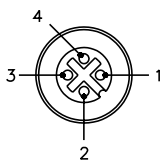
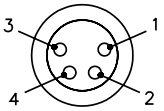
Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP67

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey/yellow PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PKG to PKGV, PSG to PSGV, RK to RKV).
Notes: Mounting hole accepts #4 screw.

YP2-PSG4M-*/2RK4T-*/*



Pinouts

4-pin Eurofast®	4-pin Picofast
Female	Male
	

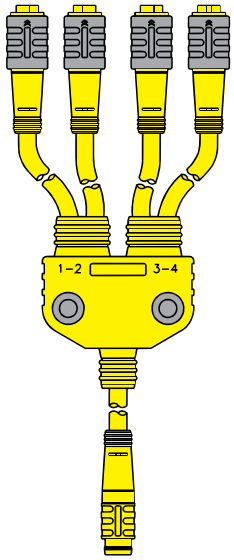
We reserve the right to make technical alterations without prior notice.

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

Splitters

M8 Picofast® 4-Branch Splitters, Parallel Wiring

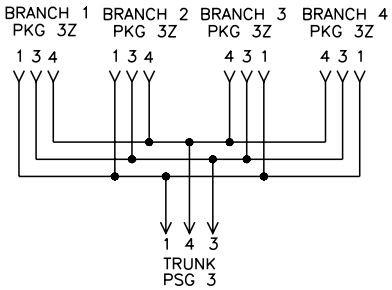
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V3PSG-*/PKG3Z-*/*/*/*/S651**	125 V, 2.0 A, Yellow PVC, 4.4 mm OD, 3x24 AWG, parallel wired, 3 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

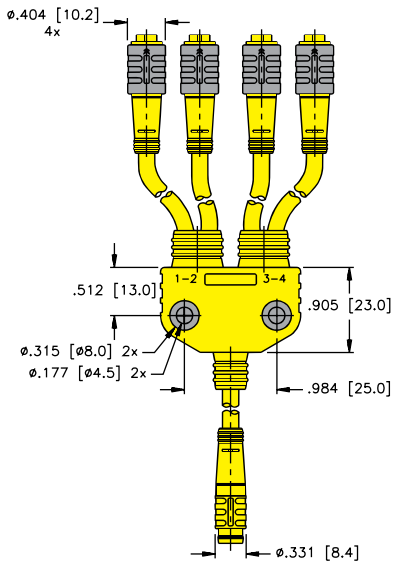
M8 Picofast® 4-Branch Splitters, Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

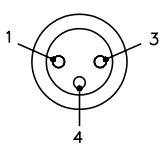
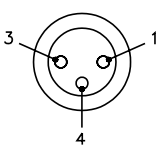
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Notes: Mounting holes accept #8 screw.

V3PSG-*/PKG3Z-*/*/*/*/S651



We reserve the right to make technical alterations without prior notice.

Pinouts

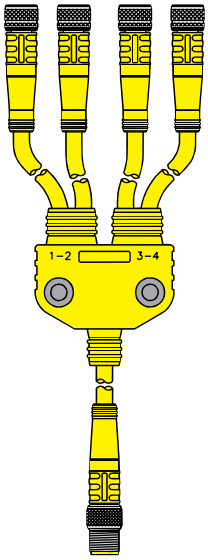
3-Pin	
Female	**Male**
	

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

Splitters

M8 Picofast® 4-Branch Splitters, Parallel Wiring

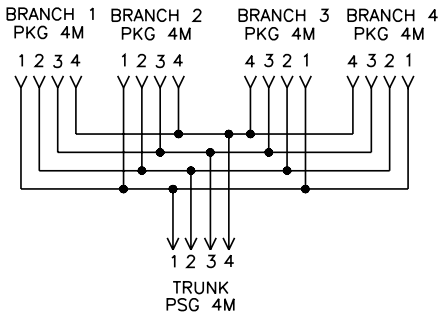
- **For use on Photoelectric Controls, Power Distribution and other Parallel-wired applications**
- **Tough TPU Construction**

Housing	Part Number	Features	Wiring Diagram
	**V4PSGM-*/PKG4M-*/*/*/*/S651**	125 V, 2.0 A, yellow PVC, 4.4 mm OD, 4x26 AWG, parallel wired, 4 conductor	Parallel

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Wiring Diagram



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

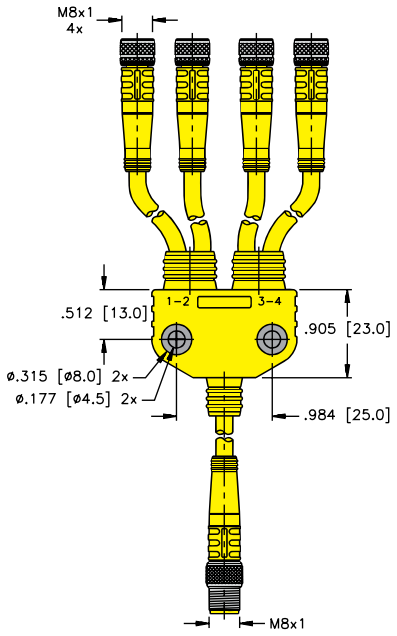
M8 Picofast® 4-Branch Splitters, Parallel Wiring

Specifications

Junction Body:	Oil resistant yellow TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Oil resistant TPU body material, Nylon or TPU contact carrier	**Cable:**	See table
		Temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Contacts:	Gold plated brass	**Protection:**	IEC IP67

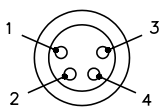
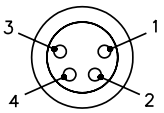
Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Cable Options: Standard cable jacket - grey PVC. TPU and other jackets available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (PSG to PSGV, PKG to PKGV).
Notes: Mounting holes accept #8 screw.

V4PSGM-*/PKG4M-*/*/*/*/S651



We reserve the right to make technical alterations without prior notice.

Pinouts

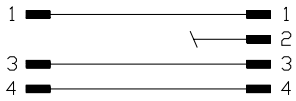
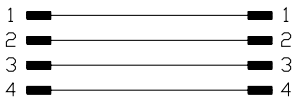
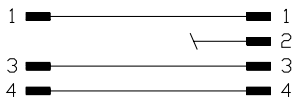
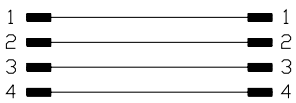
4-Pin	
Female	**Male**
	

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

Splitters

M8 Picofast® to M12 Eurofast® Adapters

- **Enables Picofast and Eurofast Connectors to be interchanged**
- **Compact size saves space**
- **Eurofast Connection has Anti-vibration Coupling Nut**

Part Number	Features	Wiring Diagram
FKMR 4-ESM 3S	60 VAC/75 VDC, 4.0 A, female Eurofast, male snap-lock Picofast connector, 3-pin	
FKMR 4.4-ESM 4S	30 VAC/36 VDC, 4.0 A, female Eurofast, male snap-lock Picofast connector, 4-pin	
FSMR 4-SKM 3	60 VAC/75 VDC, 4.0 A, male Eurofast, female threaded Picofast connector, 3-pin	
FSMR 4.4-SKM 4	30 VAC/36 VDC, 4.0 A, male Eurofast, female threaded Picofast connector, 4-pin	

To add mounting hole, add /S857 to the end of the part number.

We reserve the right to make technical alterations without prior notice.

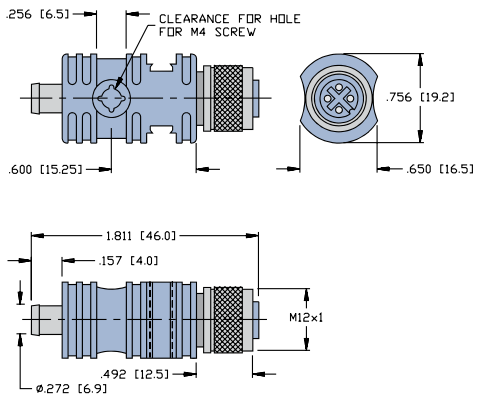
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

M8 Picofast® to M12 Eurofast® Adapters

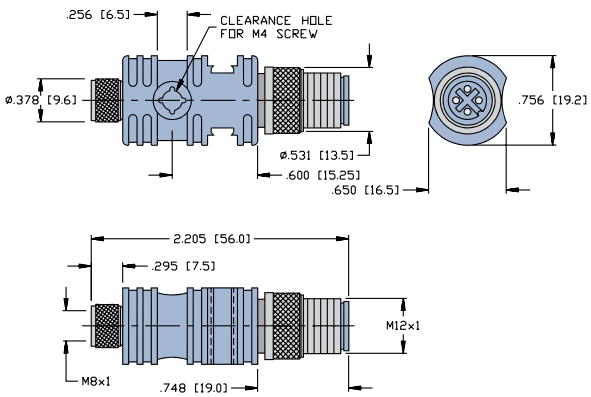
Specifications

Junction Body:	Oil resistant blue-gray TPU	**Coupling Nuts:**	Nickel plated brass
Connector:	Nylon or TPU contact holder	**Temperature:**	-30 °C to +80 °C (-22 °F to +176 °F)
Contacts:	Gold plated brass	**Protection:**	NEMA 1, 3, 4, 6P and IEC IP67

FKMR ..

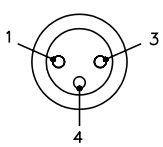
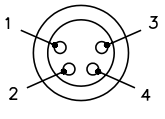
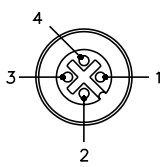
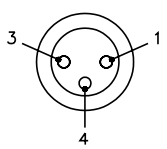
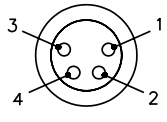
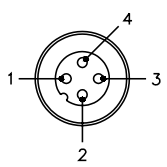


FSMR ..



We reserve the right to make technical alterations without prior notice.

Pinouts

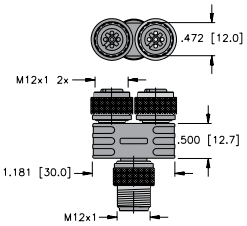
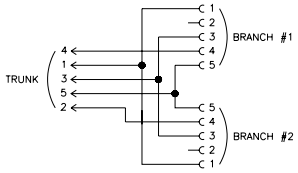
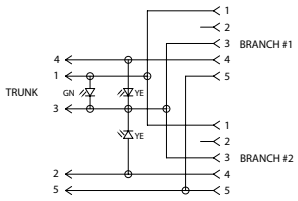
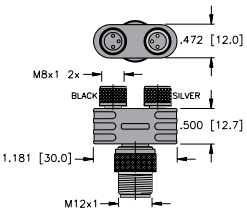
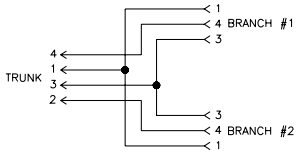
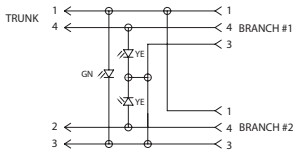
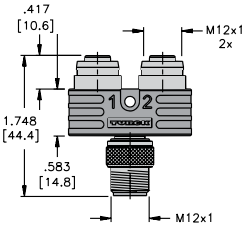
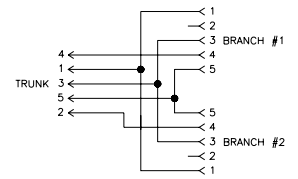
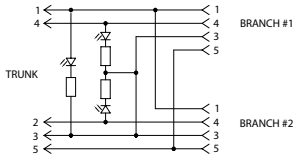
3-pin Picofast	4-pin Picofast	4-Pin Eurofast	3-pin Picofast	4-pin Picofast	4-Pin Eurofast
Female			Male		
					

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

Splitters

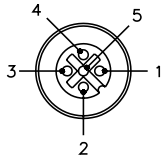
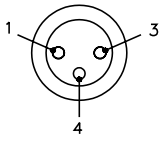
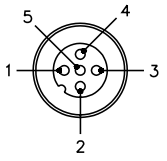
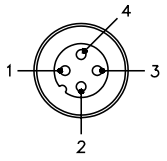
Multibox® 2 - Branch Molded Splitters

- **Consolidate two Sensors/Actuators into one**
- **M8 Picofast® or M12 Eurofast® Connector Branches**
- **Tough TPU Construction**
- **IEC IP67 Protection**

Housing	Part Number	Features	Wiring Diagram
	**YB2-FSM 4.5-2FKM 4.5 (Fits 8MB12 J-boxes)**	2 Eurofast branches, black TPU, 80 °C, 30 VAC/36 VDC, 4 A, combine two sensors/ actuators with Eurofast connector branches into one	
	YB2-FSM 4.5-2FKM 4.5/S1063 (Fits VB J-boxes)	2 Eurofast branches, grey TPU, 80 °C, 30 VAC/36 VDC, 4 A, combine two sensors/ actuators with Eurofast connector branches into one	
	YB2-FSM 4.5-2FKM 4.5-P7X3	2 Eurofast branches, translucent black TPU, 80 °C, 30 VDC, 4 A, 3 LEDs, PNP, combine two sensors/actuators with Eurofast connector branches into one	
	**YB2-FSM 4.4/2PKG 3M**	2 Picofast branches, black TPU, 80 °C, 30 VAC/36 VDC, 2 A, combine two sensors/ actuators with Picofast connector branches into one	
	YB2-FSM 4.4/2PKG 3M-P7X3	2 Picofast branches, translucent black TPU, 80 °C, 30 VDC, 2 A, 3 LEDs, PNP, combine two sensors/actuators with Picofast connector branches into one	
	**YBZ2-FSM 4.5/2FKM 4.5/S771**	2 Eurofast branches, black TPU, 80 °C, 30 VAC/36 VDC, 4 A, combine two sensors/ actuators with Eurofast connector branches into one	
	YBZ2-PX3-FSM 4.5/2FKM 4.5	2 Eurofast branches, transparent TPU, 80 °C, 36 VDC, 4 A, 3 LEDs, PNP, combine two sensors/actuators with Eurofast connector branches into one	

Standard coupling nut material is nickel plated brass.

Pinouts

5-Pin Eurofast	3-Pin Picofast	5-Pin Eurofast	4-Pin Eurofast
Female		Male	
			

We reserve the right to make technical alterations without prior notice.

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

Turck Standards	W2
NRTL and RoHS	W3
Shielded Cordsets	W4
IP Protection Class, IEC, NEMA and NEMA 250	W5
Conversion Charts	W9
NEC	W10
Cable Applications	W11
Cable Selection Guide	W13
Glossary	W16

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

Turck Standards

One or more of the following standards may apply to products or components of products in this catalog. This section is intended to provide a reference to the applicable standards only. Original or facsimiles of the original standards documents should be used for interpretation. It is the responsibility of the user to determine the suitability of use of the products represented in this catalog.

ANSI/B93.55M

Generally defines the geometry and connection scheme of "mini" type connectors used in fluid power (valve) applications. It defines the numerical marking of the pins and the conductor size and colors for 3 and 5 pin versions. This specification was the basis for the so-called "automotive" standard conductor colors that are widely used on sensors.

CENELEC EN 50 044

Identifies connections for inductive proximity switches. The specification defines conductor colors for proximity switches with 2, 3, or 4 conductors. It also defines numerical marking of the terminals, whether quick disconnect, or not. Turck sensors and recommended cordsets that apply within the scope of the standard comply with CENELEC EN 50 044. The conventions defined in this standard have been widely adopted in industry to include photoelectric controls and other related sensing devices.

CSA

The Canadian Standards Association is a not-for-profit membership-based association serving business, industry, government and consumers in Canada and the global marketplace.

Is the CSA mark valid across America?

Yes. CSA International is accredited by the Occupational Health and Safety Administration (OSHA) as a Nationally Recognized Testing Laboratory (NRTL). The CSA tests to the same American industry standards as other accredited laboratories, regardless of who authored or published the standard. CSA marks are recognized and accepted throughout America by federal, state and local authorities.

DIN 43650

Defines the geometry and other characteristics of the "square" connectors most frequently used on hydraulic and pneumatic solenoid valves and other devices in the fluid power industry.

MSHA

The Mine Safety and Health Administration - a US Government agency that ensures and regulates safety for mines and mine workers. The MSHA approval is required for products used in underground mines, including electrical equipment, power cords, and instrumentation components.

The MSHA standards require special fire-resistant properties and characteristics that prevent the propagation of flames.

IEC 61076-2-101

Defines the geometry and other characteristics of the M12x1 family of threaded connectors used to connect control and measurement devices in industrial environments.

IEC 61076-2-104

Defines the geometry and other characteristics of the M8x1 family of threaded and snap connectors used to connect control and measurement devices in industrial environments.

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

NRTL

Nationally Recognized Test Laboratory - An independent laboratory authorized by the US Government to perform product safety evaluations. Test laboratories must meet government laboratory standards, and are audited annually by OSHA to maintain this credential. UL standards are adopted by the US government and OSHA as being "Safety Standards", and these accredited labs then use the UL standards to perform product evaluations.

The Canadian Standards Association (CSA) is authorized as a NRTL to perform product evaluations and tests to the UL Standards. The certification mark "CSA NRTL/C" is then applied to products that satisfy all construction and performance criteria for both US and Canada. This certification mark is generally accepted by local building, safety, and quality agencies as meeting safety, construction, and performance criteria in both the US and Canada.

RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment)

In Europe, the RoHS directive is the legal basis for the ban of certain materials (lead and other specific heavy metals) in electric and electronic products. This directive was adopted and implemented in Europe as of July 1st, 2006.

This directive is geared towards high volume consumer goods. Turck is not required to adopt the directive, but is affected by the legal requirements which prescribe that only lead-free products and components to be sold in Europe.
Turck, however, is engaged in testing lead-free soldering and substitute substances/components in support of our commitment to the environment. The main issue we had to overcome to become RoHS compliant was our solder material that contained lead. We have tested and verified a RoHS approved solder material which was implemented as of May 1st, 2006 and a RoHS logo will be added to bag labels for those parts. Please be aware that there are certain products like PCBs and ITC/PLTC cable that will continue to contain restricted substances.

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

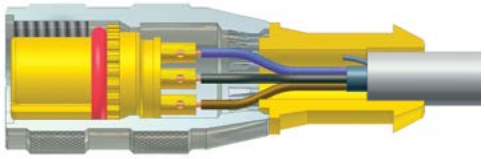
Shielded Cordsets

Whenever wire is used to transmit electrical data, it is possible for the wire to absorb external noise, possibly changing the characteristics of the electrical signal, or to give off noise that could cause changes in other electrical components that are near. Shielding is the act of placing conductive material between the potential noise emitters and receivers.

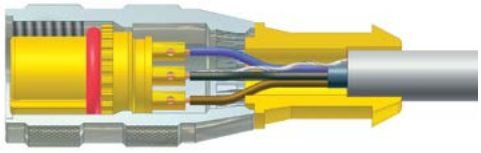
Electrical noise is usually classified as electro-magnetic interference (EMI) or radio frequency interference (RFI).

Turck offers a number of shielding options:

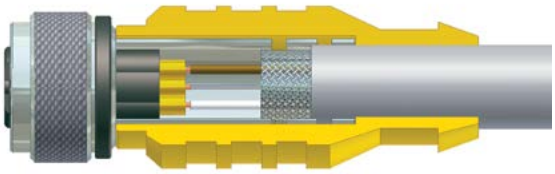
1. Foil shield with drain, drain not connected



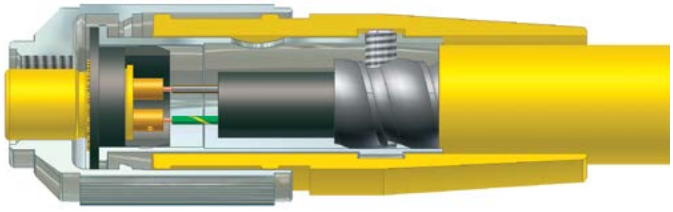
2. Foil shield with drain, drain connected to a pin



3. Foil and braid shield with shield tied to coupling nut



4. Aluminum armored cable with armor tied to coupling nut



For a shield to be effective, it must be tied to a ground at some point. It is usually preferred to not tie the shield to ground at more than one point to avoid ground loops. A shield not tied to a ground will reflect some noise and is better than no shield at all, but will be much more effective if tied to a ground.

High frequency noise, RFI, is handled well with a foil shield. The wavelength of RFI is usually small and can pass through the 'holes' in a braided shield. EMI is usually larger wavelengths and needs a braided shield to increase the mass of shielding material to be effective.

Aluminum armored cables provide the ultimate in noise immunity as they are basically flexible conduit.

Select the shielded cordset that best meets your needs. If it is easier to tie the shield to ground inside the panel, the foil/drain with the drain not connected inside the cordset is a good choice. If you can connect the drain via a pin inside the device being connected, the foil/drain with the drain connected to a pin is a good choice. Any environments with EMI noise from things like large motors or welding equipment will benefit from a braided shield tied to the coupling nut.

Turck shielded cordsets with the shield tied to the coupling nut offer complete shielding for the entire length of the cordset. A metal sleeve inside the molded body connects the braid/foil shield of the cable to the metal coupling nut with no loss of shielding potential.

Turck armored cordsets are the ultimate in shielded connectors. A Turck patented process allows the interlocked aluminum armor to be connected directly to the coupling nut offering the same protection as running conductors inside metal conduit.

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

IP Protection Class

IP		Dust Protection						
		0_ Unprotected	1_ Objects ≥ 50 mm	2_ Objects ≥ 12.5 mm	3_ Objects ≥ 2.5 mm	4_ Objects ≥1.0 mm	5_ Dust Protected	6_ Dust Tight
Water Protection	_0 Unprotected	IP 00	IP 10	IP 20	IP 30	IP 40	IP 50	IP 60
	_1 Dripping Water		IP 11	IP 21	IP 31	IP 41	IP 51	IP 61
	_2 Dripping Water on 15° slant		IP 12	IP 22	IP 32	IP 42	IP 52	IP 62
	_3 Spraying Water			IP 23	IP 33	IP 43	IP 53	IP 63
	_4 Splashing Water				IP 34	IP 44	IP 54	IP 64
	_4K Splashing Water High Pressure				IP 34K	IP 44K	IP 54K	IP 64K
	_5 Jet Water						IP 55	IP 65
	_6 Intense Jet Water						IP 56	IP 66
	_6K Intense Jet Water High Pressure						IP 56K	IP 66K
	_7 Temporary immersion							IP 67
	_8 Continuous immersion as specified by manufacturer							IP 68
	_9K Water at high pressure/Steam jet cleaning							IP 69K

We reserve the right to make technical alterations without prior notice.

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

Ingress Protection Classes- IEC 60529

First ID Number	Protection from penetration of…	Protection from penetration of…
0	Unprotected	N/A
1	Solid Foreign Particles Ø50 mm	No full penetration of sphere with Ø50 mm
2	Solid Foreign Particles Ø12.5 mm	No full penetration of sphere with Ø12.5 mm
3	Solid Foreign Particles Ø2.5 mm	No penetration of rod with Ø2.5 mm
4	Solid Foreign Particles Ø1.0 mm	No penetration of wire with Ø1.0 mm
5	Dust	Dust may only penetrate in such quantity that function and safety are not impacted
6	Dust	No penetration of dust

First ID Number	Protection from penetration of…	Protection from penetration of…
0	Unprotected	N/A
1	Dripping water	Vertically falling drips may not cause any damage
2	Dripping water when the enclosure is in a slanted position of up to 15 °C	Vertically falling drips may not cause any damage
3	Spraying water	Spraying water, which is sprayed in a perpendicular angle of up to 60 °C may not cause any damage
4	Splashing water	Water splashing against the enclosure from every direction may not cause any damage
4K	Splashing water with increased pressure	Water splashing against the enclosure from every direction and with increased pressure may not cause any damage
5	Jet water	Water which is hosed against the enclosure from every direction may not cause damage
6	Intense jet water	Water which is hosed against the enclosure with high intensity may not cause any damage
6K	Intense jet water with increased pressure	Water which is hosed against the enclosure with high intensity and increased pressure may not cause any damage
7	Temporary immersion in water	Water may not enter the enclosure in such quantity as to cause damage when the enclosure is held under water for a set period of time using predetermined pressure (1 m for 30 min)
8	Continuous immersion in water	Water may not enter the enclosure in such quantity as to cause damage when the enclosure is held under water for a set period of time using predetermined pressure (Turck standard is 6' of water, and other chemicals, for a period of 24 hours)
9K	Water at high-pressure/steam jet cleaning	Water which is directed against the enclosure from every direction with extremely high pressure may not cause any damage (14 to 16 l/min at 8,000 to 10,000 kPa)

We reserve the right to make technical alterations without prior notice.

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

NEMA Standards

NEMA		NEMA 1	NEMA 2	NEMA 12	NEMA 13	NEMA 3	NEMA 3R	NEMA 4	NEMA 4X	NEMA 6	NEMA 6P
Rating Type		Indoor				Outdoor		Indoor/Outdoor			
Protection Against:	Test Number										
Incidental Contact	6.2	•	•	•	•	•	•	•	•	•	•
Falling Dirt	6.2	•	•	•	•	•	•	•	•	•	•
Rust	6.8	•		•	•	•	•	•	•	•	•
Circulating Dust, Lint, Fibers (nonhazardous)	6.5.1.2(2)			•	•	•		•	•	•	•
Windblown Dust	6.5.1.1(2)					•		•	•	•	•
Falling Liquids/Light Splashing	6.3.2.2		•	•	•	•		•	•	•	•
Rain	6.4.2.1					•	•	•	•	•	•
Rain	6.4.2.2					•		•	•	•	•
Snow and Sleet	6.6.2.2					•	•	•	•	•	•
Hose Down and Splashing Water	6.7							•	•	•	•
Occasional Prolonged Submersion	6.11(2)									•	•
Oil and Coolant Drip	6.3.2.2			•	•						
Oil and Coolant, Spray/Splash	6.12				•						
Corrosive Agents	6.9					•	•		•		•

We reserve the right to make technical alterations without prior notice.

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

NEMA 250 Test Definitions

6.2 Rod Entry Test - a ½" diameter rod may not enter the enclosure and a 1/8" rod cannot enter within 4" of live components

6.3 Drip Test - 20 drops per minute for 30 minutes with no water entering enclosure 6.3.2.2 Evaluation, no water shall enter enclosure

6.4 Rain Test - All exposed surfaces are sprayed with 5 psi of water for 60 minutes at a rate of 18" per hour rise in a straight sided pan 6.4.2.1 Evaluation, No water shall have reached live parts, insulation, or mechanisms 6.4.2.2 Evaluation. No water shall have entered enclosure

6.5.1.1 (2) Outdoor Dust Test (alternate method) - Stream of water at 45 gallons per minute from a 1" diameter nozzle, from all directions at a distance from 10' to 12'. Test time is a minimum of 5 minutes. No water shall enter enclosure.

6.5.1.2 (2) Indoor Dust Test (alternate method) - Atomized water at 30 psi is sprayed from all directions from a distance of 12" to 15" at a rate of 3 gallons per hour. No water shall enter enclosure.

6.6 External Icing Test - The enclosure is sprayed with water between 0 °C and 3 °C in a room at 2 °C. The spray is between 1 and 2 gallons per hour per square foot. Spray for 1 hour. The room temp is then dropped to between -7 °C and -3 °C with the spray still going. Ice needs to build up on a test bar at a rate of 1/4 inch per hour. Spray continues until 3/4 inch of ice is on the enclosure. Room temperature is maintained for at least 3 hours. 6.6.2.2 Evaluation, enclosure is undamaged after ice has melted.

6.7 Hose down Test - Stream of water at 65 gallons per minute from a 1" diameter nozzle from all angles at a distance of 10' to 12'. Test time is 48 seconds times (height + width + depth of enclosure in feet) or a minimum of 5 seconds. No water shall enter enclosure.

6.8 Rust Resistance Test - only applicable to enclosures incorporating external ferrous parts

6.9 Corrosion Protection - Test per UL 508, 6.9 or 6.10.

6.11 (2) Air Pressure Test (alternate method) - Enclosure is submerged in water at a pressure equal to a depth of 6' for 24 hours. No water shall enter enclosure.

6.12 Oil Exclusion Test - Stream of test liquid at 2 gallons per minute from a 3/8" nozzle for 30 minutes. Water with 0.1% wetting agent is directed from all angles from a distance of 12" to 18". No test liquid shall enter the enclosure.

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

Charts

Conversion Chart		
AWG to Metric		
AWG	Diameter (mm)	Section (mm ²)
8	3.26	10
10	2.59	6
12	2.05	4
14	1.63	2.5
16	1.29	1.5
18	1.024	0.75
20	0.813	0.5
22	0.643	0.34
24	0.511	0.25
26	0.405	0.14
28	0.32	0.05
30	0.255	0.05

Thread Conversion Chart	
PG to Metric	
PG	Diameter (mm)
7	12
9	16
11	20
16	25

Cable Length Tolerance Chart	
All Lengths	+4% or 50 mm, whichever is greater than -0 mm
Strip Length	Tolerance(mm)
0-7 mm	±0.5 mm
8-29 mm	±1.0 mm
30-49 mm	±2.0 mm
50-69 mm	±3.0 mm
70-100 mm	±4.0 mm
Over 100 mm	±5.0 mm

We reserve the right to make technical alterations without prior notice.

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

Installing Cable Products in Accordance with the National Electrical Code (NEC)

The NEC is a set of guidelines for installation of electrical devices, including cables, meant to reduce the risk of electrical shock, fire, etc. The NEC is simply a code, and local laws may or may not require installation based on the NEC. Check local laws for applicability.

The NEC generally does not cover cables installed inside a machine. Any cables installed in an exposed manner, on the outside of a machine or from one machine to something else, must be an approved type and installed in accordance with the appropriate NEC articles.

UL (Underwriters Laboratory) and CSA (Canadian Standards Association) are the primary sources in North America for approving cables to specific standards. While a cable installed within a piece of machinery does not fall under the NEC, most people want to install an approved cable. Turck cables have both UL and CSA approvals. Many of these approvals are the UL AWM (Appliance Wiring) approvals and are acceptable for use in a UL approved device. A UL Listed cable may be installed outside a machine per the NEC standards. UL Listed cables available from Turck include NEC designations for hard duty cables (SOOW, SJOOW, STOOW, SEOW), armored cables (MC), and tray-rated cables (PLTC, ITC).

Hard duty cables designations are:

- S- Service Grade (600 V)
- SJ - Service Grade Junior (300 V)
- ST - Service Grade Thermoplastic (600 V)
- SE - Service Grade Thermoplastic Elastomer (600 V)
- O - Oil resistant jacket material
- OO - Oil resistant jacket and conductor insulation
- W - Weather proof

Turck armored cables are available in 3 different configurations. Type MC cables, type MC cables with ITC/PLTC approvals and simply ITC/PLTC approved. Armored cables with ITC/PLTC approvals may be installed in an exposed run without being offered additional mechanical protection.

Tray-rated cables from Turck include Instrument Tray Cable (ITC) and/or Power Limited Tray Cable (PLTC) or Tray Cable-Exposed Run (TC-ER).

Turck NEC type approved cables are dual listed with other UL type approvals. For example, the RKM 126-*M cordset has a 12 conductor 16 AWG cable with UL AWM 600 V approval and ITC/PLTC approval.

Please refer to the NEC and local laws for specific installation requirements based on your environment.

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

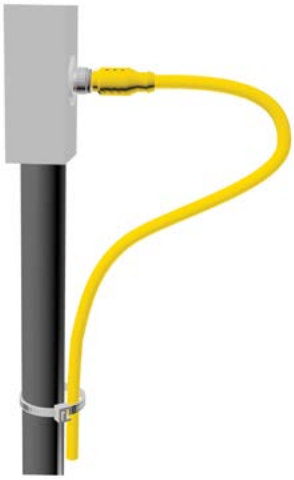
Cable Applications

Proper management of cabling systems can mean the difference between a dependable and smooth operating installation and costly reoccurring down time. The suggestions outlined below illustrate some of the common sources of problems and provide simple and effective solutions.

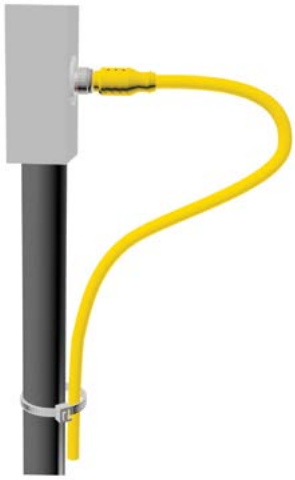
RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment)

Providing sufficient bend radius will allow the cable to absorb the energy of bending over a greater portion of its length, increasing its effective working life. Small increases in the radius of the bend can produce substantial increases in cable life.

Minimum bend radius for fixed applications:
Standard cable - 5x cable diameter
Armorfast® cable - 12x cable diameter



Minimum bend radius for moving applications:
Standard cable - 10x cable diameter
Armorfast® cable - 15x cable diameter



Eliminating Stress Points in Cable Dress

Installing cables to allow for adequate stress loops and freedom of motion increase the life of the cables. Turck cordsets incorporate molded strain reliefs that will assist in preventing stress.

Tie Down Loops

Correct

Incorrect

Strain Relief

Correct

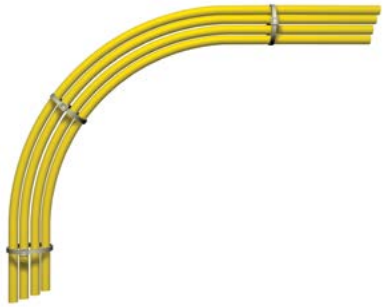
Incorrect

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

Cable Bundling Techniques

When bundling several cables together, always keep the bundle loose enough to move within itself. Tightly tied bundles create both compression and tension stresses when the bundle is moved.

Correct

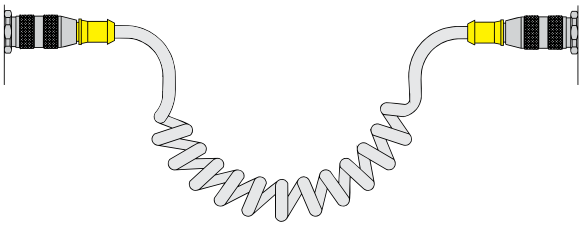


Incorrect

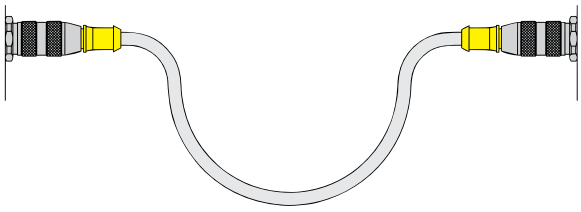
Cabling for Motion Applications

Where cabling is subjected to linear, angular or rotational motion between two points, always allow adequate cable length to absorb the energy imparted by the motion. Use of coiled cords, mechanical support mechanisms, or large, well supported cable loops will maximize cable life.

Coil Cord



Cable Loop



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

Standard Cable Selection Guide

Selection Criteria	PVC Flexlife®	TPU Flexlife (S90)	CPE Rubber Flexlife (S600)	Weldlife (S1587)	Flexlife-20® TPE (S101)	Flexlife-20 TPU(S90/S101)
Ozone and UV resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temperatures	-40 °C to 105 °C	-40 °C to 90 °C	-50 °C to 105 °C	-60 °C to 105 °C	-60 °C to 105 °C	-40 °C to 90 °C
Cold Bend test	-40 °C	-40 °C	-55 °C	-60 °C	-60 °C	-40 °C
Abrasion & Cut-through resistance	Fair	Excellent	Excellent	Good	Good	Excellent
Flexing (# of cycles)	2 million	2 million	2 million	2 million	20 million+	20 million+
Burn resistance	Good	Excellent	Excellent	Good	Good	Excellent
Oxidation resistance	Excellent	Excellent	Good	Excellent	Excellent	Excellent
Water resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Cost	$	$$	$$$	$$	$$	$$
Weld Slag resistance	Poor	Good	Excellent	Excellent	Excellent	Good
Flame Test						
UL Test standards	Horizontal	Vertical Tray	Horizontal	Horizontal/ Vertical Tray	Horizontal/ Vertical Tray	Vertical Tray
CSA Test standards	FT1	FT4	FT1	FT1/FT4	FT1/FT4	FT4
Chemical Resistance						
Acids	Fair/Good	Good	Excellent	Good	Good	Good
Alkalines	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols	Poor/Fair	Poor/Fair	Excellent	Excellent	Excellent	Poor/Fair
Most Solvents	Poor/Fair	Poor	Good	Poor	Poor	Poor
Oils	Good	Excellent	Excellent	Good	Excellent	Excellent
Gasoline	Poor	Poor	Poor	Poor	Poor	Poor
Greases	Good	Excellent	Excellent	Poor	Poor	Excellent
Available in Cordsets						
Eurofast®	X	X	X	X	X	
Picofast®	X	X		X	X	X
Minifast®	X	X	X	X	X	
Microfast®	X	X	X	X		
Multifast®	X	X		X	X	X
V*fast®	X	X	X	X		

We reserve the right to make technical alterations without prior notice.

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

Specialty Cable Selection Guide

Selection Criteria	Armorfast MC/ITC	† ITC/PLTC PVC	† ITC/PLTC TPU	ITC/PLTC ER/DB PVC	ITC/PLTC ER/DB TPE
Ozone and UV resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Temperatures	-25 °C to 105 °C	-30 °C to105 °C	-60 °C to 105 °C	-40 °C to 105 °C	-60 °C to 105 °C
Cold Bend test	-25 °C	-30 °C	-60 °C	-40 °C	-60 °C
Abrasion & Cut-through resistance	Fair	Fair	Excellent	Good	Very Good
Flexing (# of cycles)	2 million	2 million	2 million	2 million	2 million
Burn resistance	Fair/Good	Excellent	Excellent	Excellent	Excellent
Oxidation resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Water resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Cost	$	$	$$	$$	$$
Weld Slag resistance	Poor	Good	Good	Poor	Excellent
Flame Test					
UL Test standards	Vertical Tray	Vertical Tray	Vertical Tray	Vertical Tray	Vertical Tray
CSA Test standards	FT4	FT4	FT4	FT4	FT4
IEC Test Standards	60332-3 Cat. A	60332-3 Cat. A	60332-3 Cat. A		
IEEE Test Standards	1202	1202	1202	1202	1202
Chemical Resistance					
Acids	Fair/Good	Fair/Good	Good	Fair/Good	Good
Alkalines	Good	Good	Excellent	Good	Excellent
Alcohols	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair	Excellent
Most Solvents	Poor/Fair	Poor/Fair	Poor	Poor/Fair	Poor
Oils	Good	Good	Excellent	Good	Good
Gasoline	Poor	Poor	Poor	Poor	Poor
Greases	Good	Good	Excellent	Good	Poor
Available in Cordsets					
Eurofast®	X	X	X	X	X
Picofast®			X		
Minifast®	X	X	X	X	X
Microfast®			X		
Multifast®		X	X	X	
V*fast®			X		

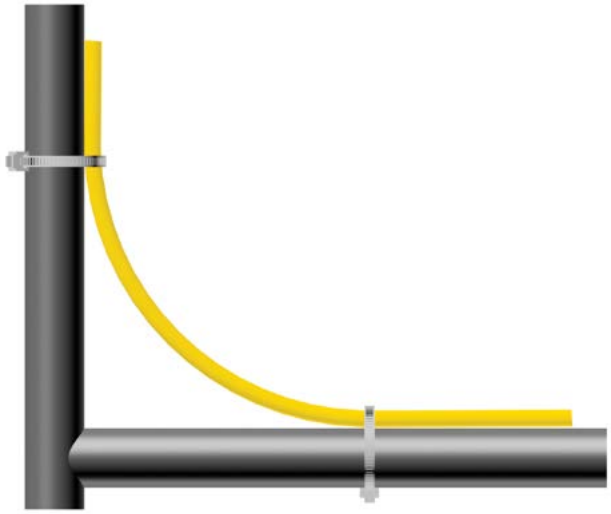
We reserve the right to make technical alterations without prior notice.

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

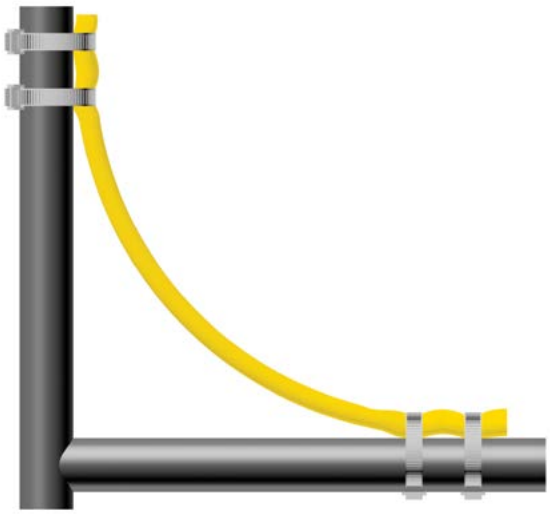
Tying Cables with Cable Ties

When tying cable with self locking cable ties, always leave the ties loose enough for the cables to slide freely under the tie. Over tightening will create stress concentrations that can cause the conductors to fail prematurely. Never tighten the tie to the point where the cable jacket becomes deformed or pinched.

Correct



Incorrect



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

Glossary of Terms

Abrasion Resistance
Ability of wire, cable or material to resist surface wear.
AC Alternating Current
Current in which the charge-flow periodically reverses and is represented by: I = I0cos (2 f + f) [I= Im cos (vt+f] where I is the current, I0 is the amplitude, f is the frequency, and f if the phase angle.
Ambient Temperature
The temperature of a medium (gas or liquid) surrounding an object.
Ampere (A)
The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.
ANSI
Abbreviation for American National Standards Institute.
Armorfast®
Cordset with metal clad cable (NEC type MC)
Armored Cable
A cable provided with a wrapping of metal for mechanical protection.
AWG (American Wire Gauge)
The standard system used for designating wire diameter. The lower the AWG number, the larger the diameter. Also called the Brown and Sharpe (B&S) wire gauge.
AWM (Appliance Wiring Material)
A UL designation covering insulated wire and cable for internal wiring of appliances and equipment.
Binder
A spirally served tape or thread used for holding assembled cable components in place awaiting subsequent manufacturing operations.
Braid
A fibrous or metallic group of filaments interwoven in cylindrical form to form a covering over one or more wires.
Cable
A stranded conductor with or without insulation and other coverings (single-conductor cable), or a combination of conductors (multiple-conductor cable).
Color Code
Wire or circuit identification by color, utilizing solid colors, tracers, braids, surface printing, etc.
Contact Holder
Insulating device that holds the contacts in their proper position
Conductivity
The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity.
Conductor
A wire (or combination of wires not insulated from one another) suitable for carrying electric current.
Conduit
A tube or trough in which insulated wires and cables are run.
Connector
A device used to provide rapid connect / disconnect service for electrical cable and wire terminations.
Contact
The parts of a connector that actually carry the electrical current and that are touched together or separated to control the flow.
Cable
A multiconductor cable made for operation in control circuits.
Cordset
Portable cord fitted with a wiring device at one or both ends.
Cord
A small, flexible insulated cable.
CPE (Chlorinated Polyethylene)
A flexible material with high tear strength and good resistance to most inorganic chemicals. It is inherently difficult to ignite. A Thermoset plastic.
Creepage
The conduction of electricity across the surface of a dielectric.
Crimp Termination
A connection in which a metal sleeve is secured to a conductor by mechanically crimping the sleeve with pliers, presses or automated crimping machines.
Current (I)
The rate of transfer of electricity. Practical unit is the ampere, which represents the transfer of one coulomb per second. In a simple circuit, current (I) produced by a cell or electromotive force (E) when there is an external resistance and internal resistance is:
I = E / R + r)
Current Carrying Capacity
The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.
Cut-Through Resistance
The ability of a material to withstand mechanical pressure, usually a sharp edge or small bending radius, without separation.
Dielectric Strength
The voltage that an insulator can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).
Direct Current (DC)
An electric current that flows in only one direction.
Drain Wire
In a cable, the bare wire laid over the component or components and used as a ground connection.
Earth
British terminology for zero-reference ground.
Eurofast®
M12 threads, single key, 2 - 6, 8, 10, 12 pin
Extruded Cable
Cable with conductors that are uniformly insulated and formed by applying a homogeneous insulation material in a continuous extrusion process.
Fillers
Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength, or a combination of all three, to the cable.
Firefast®
High temperature protective sleeving.
Ground
An electrical connection to the earth, generally through a ground rod. Also a common return to a point of zero potential, such as the metal chassis of equipment.

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

Glossary of Terms

Ground Loop
A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.
Ground Potential
The potential of the earth. A circuit, terminal or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.
Hygroscopic
Capable of absorbing moisture from the air.
IEC
European Standardization agency; International Electrotechnical Commission.
Input
A signal (or power) which is applied to a piece of electrical apparatus or the terminals on the apparatus to which a signal or power is applied.
Insulation
A material having good dielectric properties that is used to separate close electrical components, such as cable conductors and circuit components.
ITC
Instrument Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 150 V rating.
Irradiation
In insulation, the exposure of the material to high-energy emissions for the purpose of favorably altering the molecular structure.
Jacket
Pertaining to wire and cable, the outer protective covering, may also provide additional insulation.
LED
Light Emitting Diode used to indicate device status.
Line Voltage
The value of the potential existing on a supply or power line.
Load
A device that consumes power from a source and uses that power to perform a function.
MC
Metal Clad Cable. NEC classification for cable resistant to crush and impact based on an outer covering of metal.
Microfast®
½"-20 UNF threads, dual key, 2-6 pin
Minifast®
7/8"-16UN threads, 2 - 6 pin
Minifast B size
1"-16 UN threads, 6-8 pin
Minifast C size
1 1/8"-16 UN threads, 9, 10, 12 pin
Moisture Resistance
The ability of a material to resist absorbing moisture from the air or from water when immersed.
Molded Plug
A connector molded onto either end of a cord or cable.
MOV
Acronym for Metal Oxide Varistor. A solid state device used to suppress voltage surges \ spikes
MSHA
Mine Safety and Health Administration
Multibox®
Junction boxes, 4, 6, 8 and 16 port
Multifast®
M23 threads, 12, 16 and 19 pin or M27 threads, 26 and 28 pin
Mylar
DuPont trademark for polyester film.
National Electrical Code (NEC)
A set of regulations governing construction and installation of electrical wiring and apparatus in the United States, established by the American National Board of Fire Underwriters.
NEMA
National Electrical Manufacturers Association.
Neoprene
A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene. A Thermoset plastic.
Noise
In a cable or circuit, any extraneous signal that tends to interfere with the signal normally present in or passing through the system.
NPN Output
Transistor output that switches the common or negative voltage to the load (current sinking). Load connected between output and positive supply.
Ohm (Ω)
The electrical unit of resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.
Ohm's Law
E = I x R. Voltage (E) is directly proportional to the product of current (I) and resistance of circuit.
Output
The useful power or signal delivered by a circuit or device.
PA (Polyamide, Nylon)
An abrasion-resistant thermoplastic with good chemical resistance, also known as polyamide.
Pentafast®
M5 threads, 3 and 4 pin
Picofast®
Snap lock or M8 threads, 3, 4 and 6 pin
Plastic
High-polymeric substances, including both natural and synthetic products, but excluding the rubbers, that are capable of flowing under heat and pressure.
Plug
A connector associated with being attached to a cable.
PLTC
Power Limited Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 300 V rating.
PNP Output
Transistor output that switches the positive voltage to the load (current sourcing). Load connected between output and common.

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

Glossary of Terms

POM (Polyoxymethylene, Acetal, Delrin)
Polyoxymethylene - a crystalline thermoplastic polymer with a high melting point. It is suitable for mechanical parts or electrical insulators that require structural strength at above normal temperatures.

Potting
The sealing of a cable termination or other component with a liquid that thermosets into an elastomer.

PUR (Polyurethane)
Broad class of polymers noted for good abrasion and solvent resistance.

PVC (Polyvinyl Chloride)
A general-purpose thermoplastic widely used for wire and cable insulation and jackets.

Powerfast
1 3/8"-16 threads, 2, 3 and 4 pin or M23 threads, 6, 7 and 9 pins or M40 threads, 4-pin.

Resistance
A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms.

Retractile Cord
A cord having a specially treated jacket or insulation so that it will retract like a spring. Retractility may be added to all or part of a cord's length.

RoHS
(Restriction of Hazardous Substances).

Rubber
A general term used to describe wire insulation made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon, CPE butyl rubber and others.

Shield
In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields.

Signal
Any visible or audible indication that can convey information. Also, the information conveyed through a communication system.

SJOOW
Junior hard service, rubber insulated, portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and water resistant rubber insulation. Two or more color coded conductors cabled with filler, wrapped with separator and rubber jacketed overall. 300 V.

Solid Conductor
A conductor consisting of a single wire.

Solid State
Pertains to circuits and components using semiconductors without moving parts. Example: transistors, diodes, SCR, etc.

SOOW
Heavy duty, rubber-insulated portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and rubber insulation. Two or more color-coded conductors cabled with filler, wrapped with separator and rubber jacketed overall. 600 V.

STOW
Heavy duty, PVC insulated, portable cord with oil resistant PVC outer jacket. Stranded copper conductors, PVC insulation. Two or more color coded conductors cabled with filler, wrapped with separator and PVC jacketed overall. Approved for outdoor use. 600 V.

Stranded Conductor
A conductor composed of groups of wires twisted together.

Temperature Rating
The maximum temperature at which a material may be used in continuous operation without loss of its basic properties.

Thermoplastic
A material that will soften, flow or distort appreciably when subjected to heat and pressure.

Thermoset
A material that hardens or sets when heat is applied, and which, once set, cannot be re-softened by heating. The application of heat is called "curing".

TPE
Thermo Plastic Elastomer. Broad class of polymers noted for flexibility and weld slag resistance.

TPR
Thermo Plastic Rubber. Another name for TPE.

Twisted Pairs
A cable composed of two small, insulated conductors twisted together without a common covering.

Versafast™
M16 threads, 5, 6, 7, 8, 12, 14 and 19 pin

V*fast®
DIN 43650, type A, B, I and C

VDE
German approval agency.

Volt (V)
A unit of electrical pressure. One volt is the electrical pressure that will cause one ampere of current to flow through one ohm of resistance.

Voltage
The term most often used in place of electromotive force, potential difference, or voltage drop. Designates the electric pressure existing between two points that is capable of producing a current when a closed circuit is connected between these points.

Voltage Rating
The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

VW-1
A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designated FR-1.

Wicking
The longitudinal flow of a liquid in a wire or cable due to capillary action.

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

Notes

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

Notes

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

Warranty Terms and Conditions

RISK OF LOSS

Delivery of the equipment to a common carrier shall constitute delivery to the Purchaser and the risk of loss shall transfer at that time to Purchaser. Should delivery be delayed due to an act or omission on the part of the Purchaser, risk of loss shall transfer to the Purchaser upon notification by Turck Inc. that the order is complete and ready for shipment.

WARRANTIES

Turck Inc. (hereinafter "Turck") offers five (5) WARRANTIES to cover all products sold. They are as follows:

1) The **12-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME**, **5-YEAR**, **24-MONTH** or **18-MONTH** warranty. No registration required.
2) The **18-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME** or **5-YEAR WARRANTY**. No registration is required.
3) The **24-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME**, **5-YEAR** or **18-MONTH**. No registration is required.
4) The **5-YEAR WARRANTY** is available generally for the products listed. No registration is required.
5) A **LIFETIME WARRANTY** is available for the products listed. It becomes effective when the accompanying TURCK **LIFETIME WARRANTY REGISTRATION** is completed and returned to Turck.

GENERAL TERMS AND CONDITIONS FOR ALL WARRANTIES

- **12-MONTH STANDARD WARRANTY**
- **18-MONTH STANDARD WARRANTY**
- **24-MONTH STANDARD WARRANTY**
- **5-YEAR WARRANTY**
- **LIFETIME WARRANTY**

Turck warrants the Products covered by the respective WARRANTY AGREEMENTS to be free from defects in material and workmanship under normal and proper usage for the respective time periods listed above from the date of shipment from Turck. In addition, certain specific terms apply to the various WARRANTIES.

THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER REPRESENTATIONS MADE - BOTH EXPRESSED AND IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR PRODUCTS COVERED BY THESE TERMS AND CONDITIONS.

Turck warrants that the goods sold are as described, but no promise, description, affirmation of fact, sample model or representation, oral or written shall be part of an order, unless set forth in these terms and conditions, or are in writing and signed by an authorized representative of Turck. These WARRANTIES do not apply to any Product which has been subject to misuse, negligence, or accident - or to any Product which has been modified or repaired, improperly installed, altered, or disassembled - except according to Turck's written instructions.

These WARRANTIES are subject to the following conditions:

1) These WARRANTIES are limited to the electronic and mechanical performance only, as expressly detailed in the Product specifications and NOT to cosmetic performance.
2) These WARRANTIES shall not apply to any cables attached to, or integrated with the Product. However, the **18-MONTH WARRANTY** shall apply to cables sold separately by Turck.
3) These WARRANTIES shall not apply to any Products which are stored, or utilized, in harsh environmental or electrical conditions outside Turck's written specifications.
4) The WARRANTIES are applicable only to Products shipped from Turck subsequent to January 1, 1988.

ADDITIONAL SPECIFIC TERMS FOR:

(12-MONTH STANDARD WARRANTY) for Linear Displacement Transducers, EZ Track, RFID Products, Draw Wire Assemblies and Slip Rings.

(18-MONTH STANDARD WARRANTY) FOR Q-TRACK INDUCTIVE SENSORS, ULTRASONIC SENSORS, FLOW SENSORS, PRESSURE SENSORS, TEMPERATURE SENSORS, INCLINOMETERS, CABLES AND ALL NON-SENSING PRODUCTS SOLD BY TURCK INC. INCLUDING MULTI-SAFE, MULTI-MODUL, MULTI-CART AND RELATED AMPLIFIER PRODUCTS, RELAYS AND TIMERS.

(24-MONTH STANDARD WARRANTY) FOR ENCODERS excluding Draw Wire Assemblies.

5-YEAR WARRANTY FOR INDUCTIVE AND CAPACITIVE PROXIMITY SENSORS: The periods covered for the above WARRANTIES and Products shall be 12 MONTHS, 18-MONTHS, 24-MONTHS and 5-YEARS, respectively, from the date of shipment from Turck.

LIFETIME WARRANTY (OPTIONAL - REGISTRATION REQUIRED) FOR INDUCTIVE, INDUCTIVE MAGNET OPERATED AND CAPACITIVE PROXIMITY SENSORS SOLD TO THE ORIGINAL PURCHASER FOR THE LIFETIME OF THE ORIGINAL APPLICATION.

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

Warranty Terms and Conditions

THE FOLLOWING TERMS APPLY TO THE LIFETIME WARRANTY IN ADDITION TO THE GENERAL TERMS:

1) This WARRANTY shall be effective only when the LIFETIME WARRANTY REGISTRATION has been completed, signed by the End User and an authorized Turck Representative or Distributor and has been received by Turck no later than six (6) months after installation in the End User's Plant, or two (2) years from the date product was shipped from Turck, whichever is sooner.
2) This warranty is available only to Turck's authorized Representatives, Distributors and to the Original User. (The term "Original User" means that person, firm, or corporation which first uses the Product on a continuous basis in connection with the operation of a production line, piece of machinery, equipment, or similar device.) In the event the ownership of the product is transferred to a person, firm or corporation other than the Original User, this WARRANTY shall terminate.
3) This WARRANTY is applicable only to the Original Application. In the event the machinery, equipment, or production line to which the Product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate.
4) This WARRANTY shall be valid only if the Product was purchased by the Original User from Turck, or from an authorized Turck Distributor, or was an integral part of a piece of machinery and equipment obtained by the Original user from an Original Equipment Manufacturer, which itself, was purchased directly from Turck or from an authorized Distributor.

PURCHASER'S REMEDIES

This Remedy shall apply to all WARRANTIES. If a Turck Distributor desires to make a WARRANTY Claim, the Distributor shall, if requested by Turck, ship the Product to Turck's factory in Minneapolis, Minnesota, postage or freight prepaid. If the User desires to make a WARRANTY Claim, they shall notify the authorized Turck Distributor from whom it was purchased or, if such Distributor is unknown, shall notify Turck. Turck shall, at its option, take any of the following two courses of action for any products which Turck determines are defective in materials or workmanship.

1) Repair or replace the Product and ship the Product to the Original Purchaser or to the authorized Turck Distributor, postage or freight prepaid; or
2) Repay to the Original Purchaser that price paid by the Original Purchaser; provided that if the claim is made under the LIFETIME WARRANTY, and such Product is not then being manufactured by Turck, then the amount to be repaid by Turck to the Original Purchaser shall be reduced according to the following schedule:

Number of Years Since Date of Purchase by Original Purchaser	Percent of Original Purchase Price To Be Paid by Turck
10	50%
15	25%
20	10%
More than 20	5%

PURCHASER'S REMEDIES SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT, REPAIR OR REPAYMENT AS PROVIDED AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL PURCHASER'S SITE. TURCK SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT, INCLUDING WITHOUT LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION.

CONSIDER SAFETY AND PROTECTION PRECAUTIONS

Turck takes great care to design and build reliable and dependable products, however, some products can fail eventually. You must take precautions to design your equipment to prevent property damage and personal injury in the unlikely event of failure. As a matter of policy, Turck does NOT recommend the installation of electronic controls as the sole device FOR THE PROTECTION OF PERSONNEL in connection with power driven presses, brakes, shears and similar equipment and, therefore, the customer should build in redundancy or dual control using approved safety devices for these applications.

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

TURCK PRODUCTS

Turck Inc. sells its products through authorized distributors. These distributors provide our customers with technical support, service and local stock. Turck distributors are located nationwide – including all major metropolitan marketing areas.

For application assistance or for the location of your nearest Turck distributor, call:

1-800-544-7769

Specifications in this manual are subject to change with out notice. Turck also reserves the right to make modifications and makes no guarantee of the accuracy of the information contained herein.

Literature and media questions or concerns?
Contact Turck USA Marketing – info@turck.com

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

TURCK

30 subsidiaries and over
60 representations worldwide!

Printed in USA

©2020 by Turck Inc. All rights reserved. No part of the
publication may be reproduced without written permission.

B2007 C 10/20

www.turck.com

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