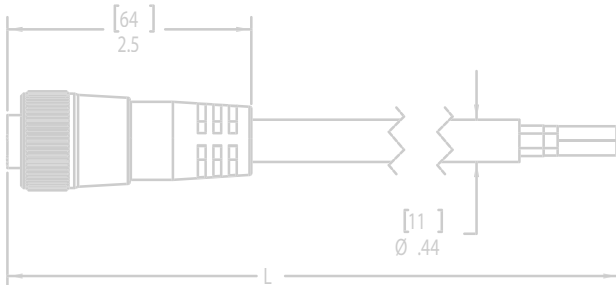




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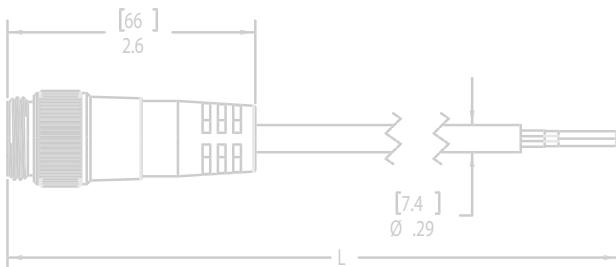


DeviceNet is a popular ring and drop system transmitting power and signal. The idea is that the information flows around the entire machine via the trunk line and all of the sensors (proxes, photos, etc.) and actuators (valves, cylinders, etc.) come off of the trunk line via drops.



Trunk Line

The DeviceNet bus system is like an expressway going around a city. The expressway is the trunk line. The trunk line is a MIN-5MFP cable that has a special DeviceNet (Thick) cable.



Drops

The exits are T connectors (a connector in the shape of a T that has 2 female connectors and one male). The exits lead to side streets that are the drops. The drops are either a 5 Pin MIN to an MDC, or, it is a 5 pin MIN to 5 pin MIN DeviceNet (Thin) cable.



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DeviceNet Series Cordsets

DeviceNet Series Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

[] - 5 [] - [] - [] - []

Cable Type

MINDT = MIN Trunk Cable (7/8"-16UN)
MINDD = MIN Drop Cable (7/8"-16UN)
MINDCDD = MIN to MDC Extension
MDCDD = MDC Drop Cable (M12 x 1)
MDCUT = MDC Ultra Thin Cable (M12 x 1)

Coupling Nut

Blank = Aluminum or
Nickel Plated Brass
SS = Stainless Steel

Connector Configuration

FP = Female Plug
MP = Male Plug
MFP = Male / Female Extension

R/A or Straight

Blank = Straight
R = Right Angle**

** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.

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DeviceNet Series MIN/MDC Cordsets

5 Conductor DeviceNet Series Cordsets, 15/18AWG & 22/24AWG



Straight Male Cordsets | 600 Volt, 8 amps | 300 Volt, 4 amps | IP69/IP67 Rating



MIN Trunk Cordsets - Thick Cable					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MINDT-5MP-**	Gray PVC Trunk Cable AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 600V, 8A -40°C to +80°C 11.2mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 7/8"-16UN2
MIN & MDC Drop Cordsets - Thin Cable					
	MINDD-5MP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 7/8"-16UN2
	MDCDD-5MP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1
	MDCUT-5MP-**	Gray PVC Drop Cable AWM With Foil Shield 2 X 24 AWG 2 X 24 AWG 1 x 24 AWG (Drain) 300V, 3A -40°C to +80°C 5.7mm OD	Industry Standard PVC Foil Shield IP67	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MINDD-5MP-1M becomes MINDD-5MP-1M-SS)




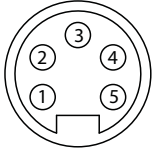

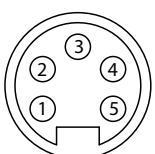

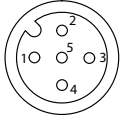

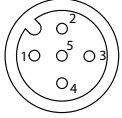
DeviceNet Series MIN/MDC Cordsets

5 Conductor DeviceNet Series Cordsets, 15/18AWG & 22/24AWG



Straight Female Cordsets | 600 Volt, 8 amps | 300 Volt, 4 amps | IP69 Rating, IP67 (MDCUT)



MIN Trunk Cordsets - Thick Cable					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MINDT-5FP-**	Gray PVC Trunk Cable AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 600V, 8A -40°C to +80°C 11.2mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 7/8"-16UN2
MIN & MDC Drop Cordsets - Thin Cable					
	MINDD-5FP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 7/8"-16UN2
	MDCDD-5FP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1
	MDCUT-5FP-**	Gray PVC Drop Cable AWM With Foil Shield 2 X 24 AWG 2 X 24 AWG 1 x 24 AWG (Drain) 300V, 3A -40°C to +80°C 5.7mm OD	Industry Standard PVC Foil Shield IP67	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MINDD-5FP-1M becomes MINDD-5FP-1M-SS)

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DeviceNet Series MIN Cordsets

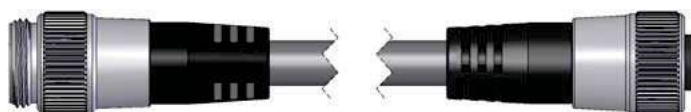
5 Conductor DeviceNet Series Cordsets, 15/18AWG



Double Ended Cordsets | 600 Volt, 8 amps | 300 Volt, 4 amps | IP69 Rating



MIN Trunk Extension - Thick Cable					
Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
<p>7/8"-16UN2</p>	MINDT-5MFP-**-	Gray PVC Trunk Cable AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 600V, 8A -40°C to +80°C 11.2mm OD	Industry Standard PVC MIN to MIN Braided Shield	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	<p>7/8"-16UN2</p>
MIN Drop Extension - Thin Cable					
<p>7/8"-16UN2</p>	MINDD-5MFP-**-	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC MIN to MIN Braided Shield	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	<p>7/8"-16UN2</p>



Male(Male Thread) MIN to Female MIN Extension

MIN Male to MDC Female Extension - Thin Cable					
Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
<p>7/8"-16UN2</p>	MINDCDD-5MFP-**-	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC MIN to MDC Braided Shield	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	<p>M12 x 1</p>

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MINDCDD-5MFP-1M becomes MINDCDD-5MFP-1M-SS)



Male MIN to Female MDC Extension

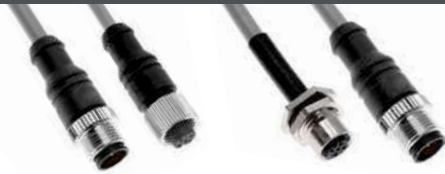


DeviceNet Series MDC Cordsets

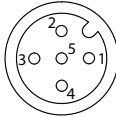
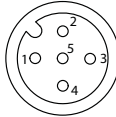
5 Conductor DeviceNet Series Cordsets, 22/24AWG



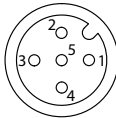
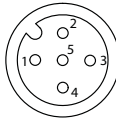
Double Ended Cordsets | 300 Volt, 4 amps | IP69/IP67 Rating



MDC Male to MDC Female Extension - Thin Cable

Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
 M12 x 1	MDCDD-5MFP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC MDC to MDC Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1

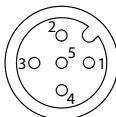
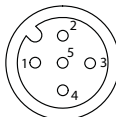
MDC Male to MDC Female Extension - Ultra Thin Cable

 M12 x 1	MDCUT-5MFP-**	Gray PVC Drop Cable AWM With Foil Shield 2 X 24 AWG 2 X 24 AWG 1 x 24 AWG (Drain) 300V, 3A -40°C to +80°C 5.7mm OD	Industry Standard PVC Foil Shield IP67	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1
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Male MDC to Female MDC Extension

MDC Male to MDC Female Back Mount Receptacles Extension - Thin Cable

Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
 M12 x 1	MDCDD-5FR-5MP-**	Gray PVC Drop Cable AWM With Braided Shield 2 X 22 AWG 2 X 24 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +80°C 7.4mm OD	Industry Standard PVC Male Plug to Back Mount Female Receptacles Braided Shield IP69	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDCDD-5MFP-1M becomes MDCDD-5MFP-1M-SS)



Male MDC to Female MDC Back Mount Receptacle Extension



DeviceNet Series Field Wireable Plugs

5 Conductor DeviceNet Series Field Wireable Plugs



Field Wireable Plugs | 600V MAX, 18A MAX | 125V, 4A | IP67 Rating



MIN (7/8" 16UN) Field Wireable Plugs						
# of Poles	Female Faceview	Rating	Wire AWG	Cable O.D. Range	Male Straight	Female Straight
5	<p>7/8"-16UN2</p>	600V MAX 12A MAX	14-22 AWG	5-13 mm	MIN-5MP-FW-DN	MIN-5FP-FW-DN

Voltage and amperage ratings are cable dependent and are based on 600V 14 AWG cable.

Cables with lower voltage ratings or smaller wire gauge will lower these ratings.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MIN-5FP-FW-DN becomes MIN-5FP-FW-DN-SS)



Male Straight with Male Threads



Female Straight Female Threads

MDC (M12) Field Wireable Plugs						
# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Male plugs	Female Plugs
5	<p>M12 x 1</p>	125V 4A	18-24 AWG	3-6.5 mm	MDC-5MP-FW07	MDC-5FP-FW07
		125V 4A	18-24 AWG	4-8 mm	MDC-5MP-FW09	MDC-5FP-FW09

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDC-5FP-FW07 becomes MIN-5FP-FW07-SS)

For right angle version add a "-R" suffix. (e.g. MDC-5FP-FW07 becomes MDC-5FP-FW07-R)



Male Straight with Male Threads



Female Straight Female Threads

Specifications:

Body: Polyamide
Insulator: Black Polyamide
Contacts: Copper Alloy with Gold Plating
O-Ring: NBR

Coupling Nut: Nickel Plated Brass/Stainless Steel
Insert: PVC
Connections: Screw Terminals
Temperature: -40 °C to +105°C (-40°F to +194°F)



DeviceNet Series “T” Connectors

4 & 5 Conductor DeviceNet Series “T” Connectors

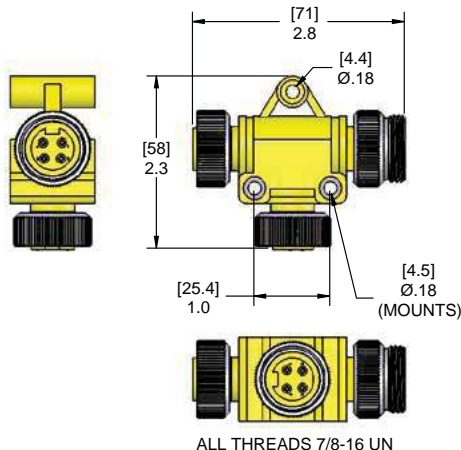


“T” Connectors | 300 Volt, 4/8/10 amps | IP69/IP67 Rating

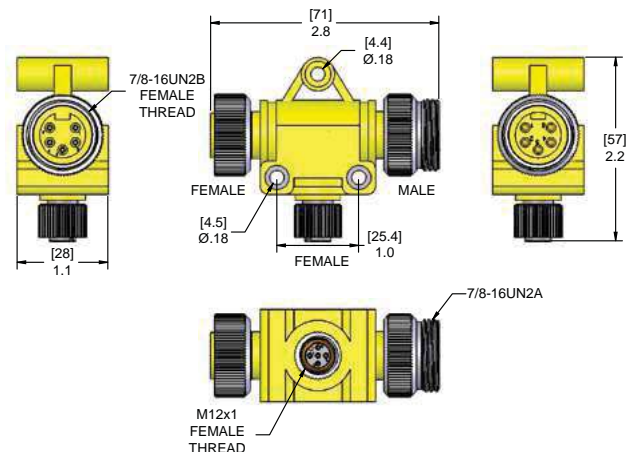


MIN Male to Two MIN Female “T” Connectors					
# of Poles	Male Faceview	Rating	Part Number	Wiring	Female Faceview
4 IP69	 7/8"-16UN2	300V 10A	MIN-4MFF-T	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4	 7/8"-16UN2
5 IP69	 7/8"-16UN2	300V 8A	MIN-5MFF-T	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4 5 to 5 to 5	 7/8"-16UN2
MIN Male to MIN & MDC Female “T” Connectors					
5 IP67	 7/8"-16UN2	300V 4A	MINDC-5MFF-T	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4 5 to 5 to 5	 M12 x 1

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a “-SS” suffix. (e.g. MIN-4MFF-T becomes MIN-4MFF-T-SS)



MIN to MIN “T” Connector



MIN to MDC “T” Connector

Specifications:

Body: Oil Resistant Yellow PVC
Contacts: Copper Alloy with Gold Plating
Coupling Nut: Nickel Plated Brass
Temperature: -40°C to +105°C (-40°F to +221°F)

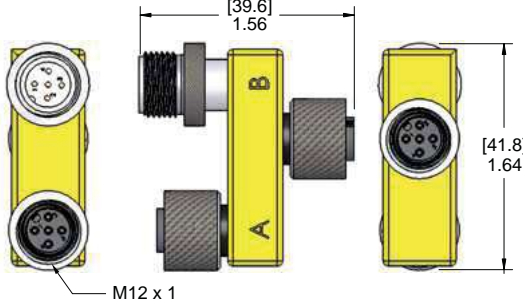
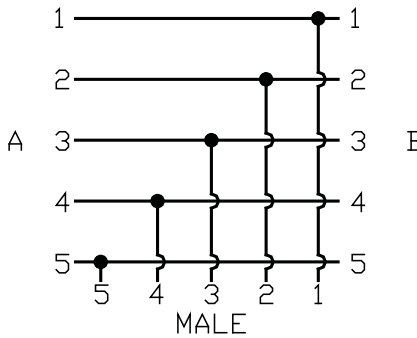


DeviceNet Series Splitters

5 Conductor DeviceNet Series Splitters



Splitters | 300 Volt, 4/8/10 amps | IP67 Rating

Housing Style	Rating	Part Number	Circuit
	300V 4A	MDCDN-5FYMF	

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a “-SS” suffix. (e.g. MDCDN-5FYMF becomes MDCDN-5FYMF-SS)

Specifications:

Body: Oil Resistant Yellow PVC
Contacts: Copper Alloy with Gold Plating
Coupling Nut: Nickel Plated Brass
Temperature: -40°C to +105°C (-40°F to +221°F)

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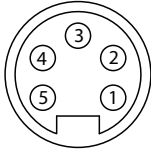
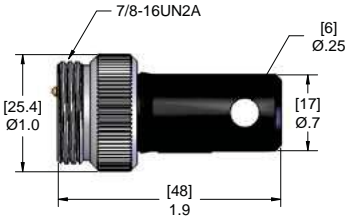
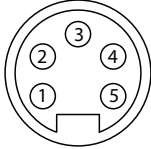
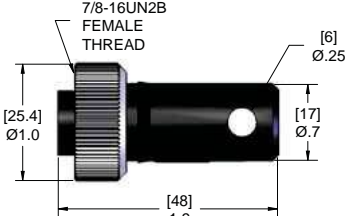
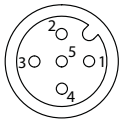
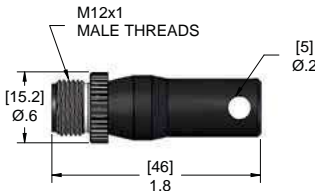
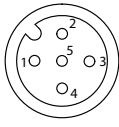
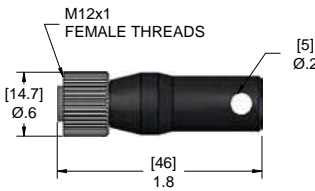
DeviceNet Series Terminating Plugs

5 Conductor DeviceNet Series MIN & MDC Terminating Plugs



Terminating Plugs | IP69 Rating

Wiring: Pin 4 to pin 5 with 1/4 watt 121 Ohm 1% resistor

MIN Terminating Plugs			
# of Poles	Faceview	Housing Style	Part Number
5	 7/8"-16UN2		MINDN-5MP-DP1
	 7/8"-16UN2		MINDN-5FP-DP1
MDC Terminating Plugs			
5	 M12 x 1		MDCDN-5MP-DP1
	 M12 x 1		MDCDN-5FP-DP1

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MINDN-5FP-DP1 becomes MINDN-5FP-DP1-SS)

Specifications:

Body: Oil Resistant Black PVC
Contacts: Copper Alloy with Gold Plating
Coupling Nut: Nickel Plated Brass
Temperature: -40°C to +105°C (-40°F to +221°F)



Notes:

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DeviceNet Series Receptacles

DeviceNet Series Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

[] - 5 [] - [] - [] - [] - [] - [] - [] - []

Connector Type

MIN = MIN with Discrete Wires (7/8"-16UN)
MINDT = MIN with Trunk Cable (7/8"-16UN)
MINDD = MIN with Drop Cable (7/8"-16UN)
MDC = MDC with Discrete Wires (M12 x 1)

Connector Configuration

MR = Male Receptacle
FR = Female Receptacle

Mounting Style

Blank = Front Mount 1/2"-14 NPT (Only MIN)
2 = Front Mount 1/2"-14 NPT (Only MDC)
4 = Front Mount 1/4"-18 NPT (Only MDC)
BM = Back Mount
BM-PCB = PCB Back Mount
Metric and PG threads are available by request.

Termination Type

Blank = Pre-Wired
PCB = PCB Mount

Length in Feet/Meter

Blank = 1' (Only for MDC)

Shell Material

Blank = Aluminum or Nickel plated brass
SS = Stainless Steel

R/A or Straight

Blank = Straight
R = Right Angle

Receptacle Type

Blank = Trunk/Drop Cable
DN = Discrete Wire Receptacle

Wire AWG

Blank = 16 AWG for MIN
= 15 & 18 AWG for MINDT
= 22 & 24 AWG for MINDD
18 = 18 AWG
22 = 22 AWG

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DeviceNet Series Receptacles

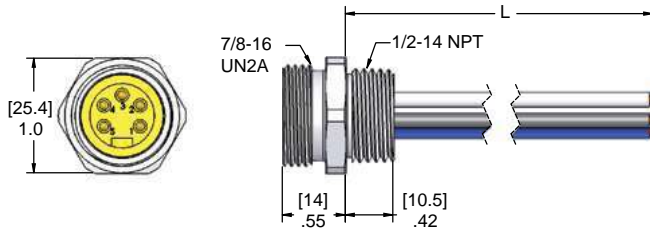
DeviceNet Series Receptacle Index



Front Mount

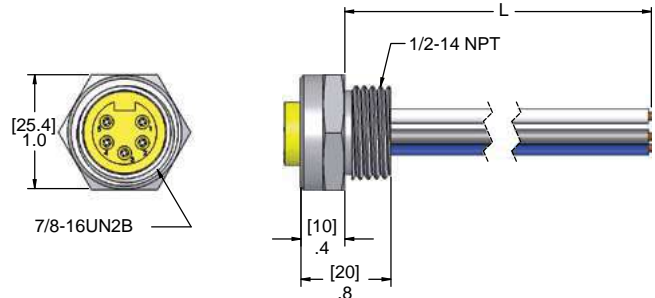
MIN, Front Mount, Male, 1/2"-14NPT

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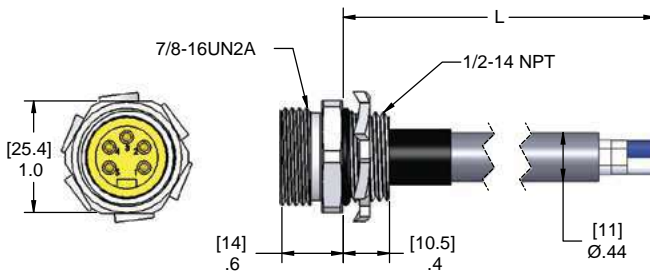
MIN, Front Mount, Female, 1/2"-14NPT

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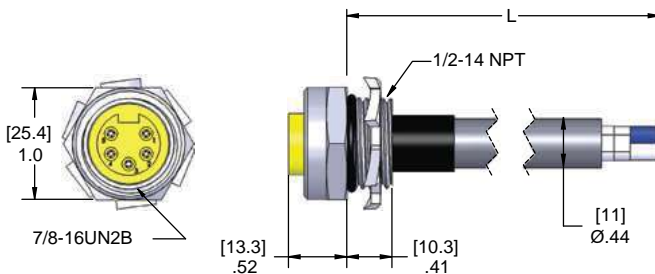
MIN, Front Mount, Male, 1/2"-14NPT, Trunk Cable

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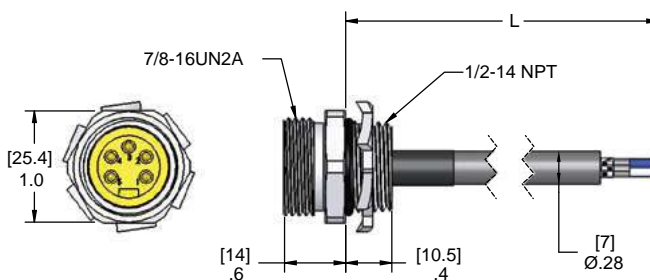
MIN, Front Mount, Female, 1/2"-14NPT, Trunk Cable

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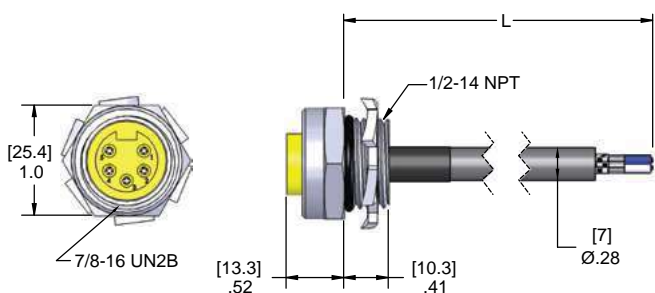
MIN, Front Mount, Male, 1/2"-14NPT, Drop Cable

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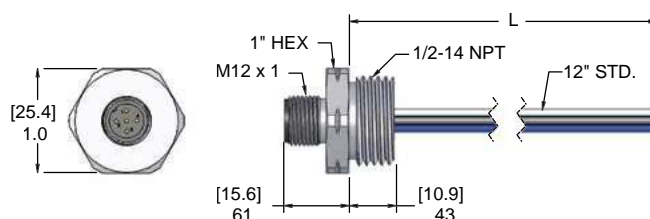
MIN, Front Mount, Female, 1/2"-14NPT, Drop Cable

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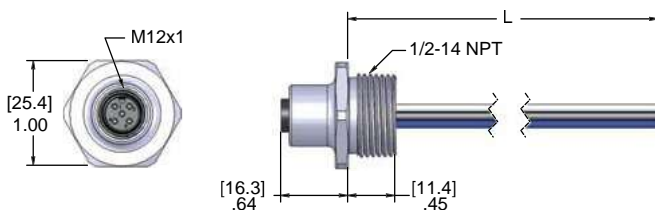
MDC, Front Mount, Male, 1/2"-14NPT

Page K-18



MDC, Front Mount, Female, 1/2"-14NPT

Page K-18



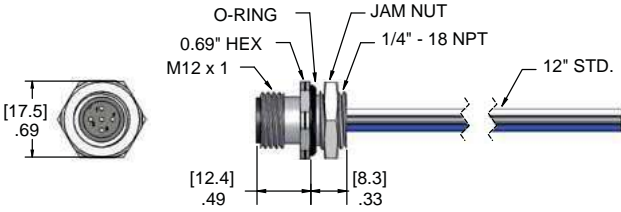
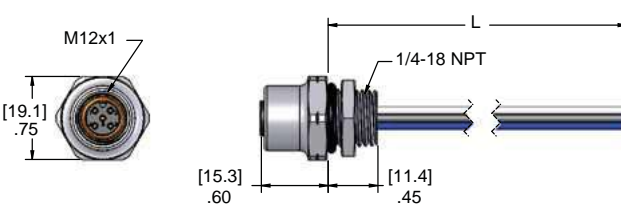
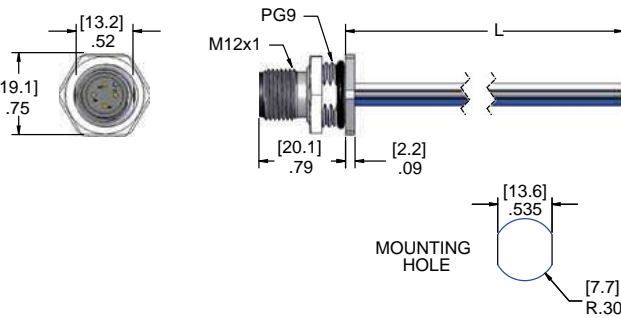
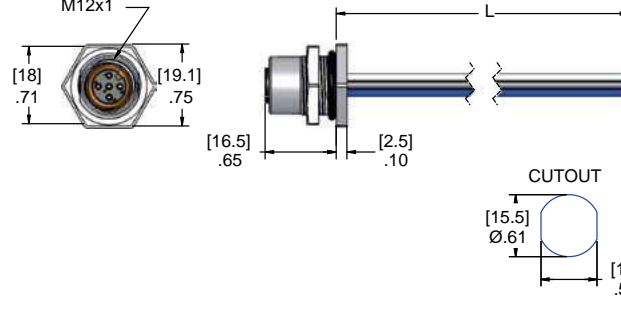
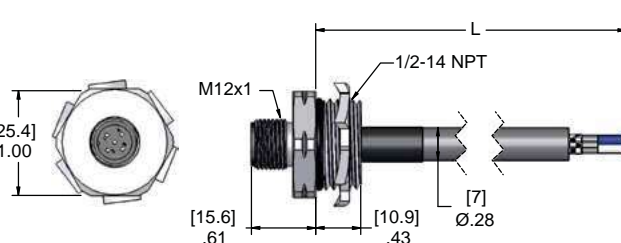
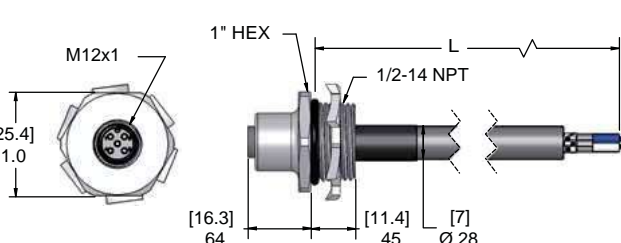
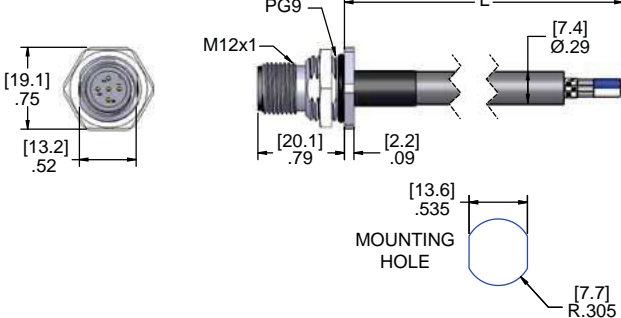
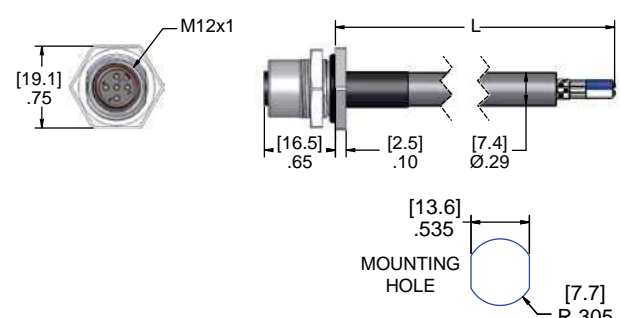


DeviceNet Series Receptacles

DeviceNet Series Receptacle Index



Front Mount | Back Mount

MDC, Front Mount, Male, 1/4"-18NPT	MDC, Front Mount, Female, 1/4"-18NPT
	
MDC, Back Mount, Male	MDC, Back Mount, Female
	
MDC, Front Mount, Male, 1/2"-14NPT, Drop Cable	MDC, Front Mount, Female, 1/2"-14NPT, Drop Cable
	
MDC, Back Mount, Male, Drop Cable	MDC, Back Mount, Female, Drop Cable
	

K

DeviceNet



DeviceNet Series Receptacles

DeviceNet Series Receptacle Index



PCB Mount | PCB Back Mount

MDC, PCB Mount, Male	Page K-20	MDC, PCB Mount, Female	Page K-20
MDC, PCB Mount, Male, Right Angle	Page K-20	MDC, PCB Mount, Female, Right Angle	Page K-20
MDC, PCB Back Mount, Male	Page K-20	MDC, PCB Back Mount, Female	Page K-20



DeviceNet Series MIN Receptacles

5 Conductor DeviceNet Series MIN Receptacles



Front Mount Receptacles | 1/2"-14 NPT Threads | 600V, 8A | 300V, 5.5A | 300V, 4A | IP69/IP67 Rating



Min Series Receptacles							
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Straight	Female Straight	Figure
5 IP69	 7/8"-16UN2	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	600V / 8A	16 AWG	MIN-5MR-*-DN	MIN-5FR-*-DN	Figure A
			300V / 5.5A	18 AWG	MIN-5MR-*-18-DN	MIN-5FR-*-18-DN	
			300V / 4A	22 AWG	MIN-5MR-*-22-DN	MIN-5FR-*-22-DN	
Trunk Cable - Thick Cable							
5 IP67	 7/8"-16UN2	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 8A	15 & 18 AWG	MINDT-5MR-**-	MINDT-5FR-**-	Figure B
Drop Cable - Thin Cable							
5 IP67	 7/8"-16UN2	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 4A	22 & 24 AWG	MINDD-5MR-**-	MINDD-5FR-**-	Figure B

* Lengths in feet. 12" leads are standard.

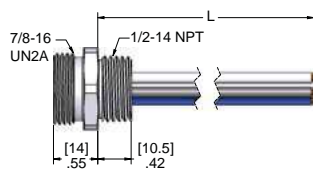
** Lengths in meters.

Metric and PG threads are available, please consult the factory.

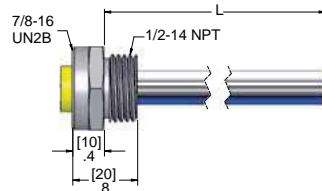
For leads version O-ring and lock nut are included on lengths of 15" or longer.

Figure A

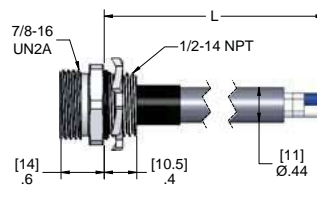
Figure B



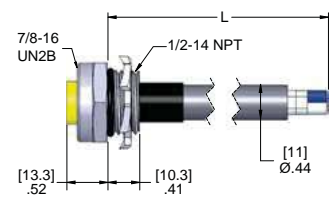
Male Receptacle



Female Receptacle



Male Receptacle



Female Receptacle

Specifications:

Shell: Clear Anodized Aluminum
Insulator: 105°C, Oil Resistant Yellow PVC
Wire: 16 AWG: UL Style 1015, 600V
18 & 22 AWG: UL Style 1007/1569, 300V
Cable: DeviceNet Drop or DeviceNet Trunk

Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Lock Nut: Zinc Plated Steel
Temperature: -40°C to 90°C (-40°F to +194°F) - Cable Version
-40°C to 105°C (-40°F to +221°F) - Discrete Wire



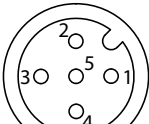
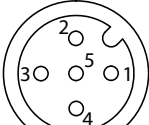
DeviceNet Series MDC Receptacles

5 Conductor DeviceNet Series MDC Receptacles, 18 & 22AWG



Front & Back Mount Receptacles | 1/2" & 1/4" NPT Threads | 300 Volt, 4 amps | IP69 Rating

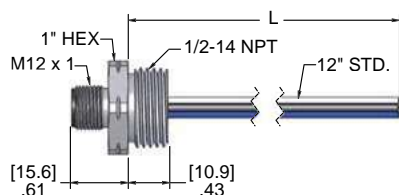


Front Mount Receptacles							
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Thread	Male Receptacle	Female Receptacle
5	 M12 x 1	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 4A	18 AWG	1/2" NPT	MDC-5MR-2-18-DN	MDC-5FR-2-18-DN
					1/4" NPT	MDC-5MR-4-18-DN	MDC-5FR-4-18-DN
				22 AWG	1/2" NPT	MDC-5MR-2-22-DN	MDC-5FR-2-22-DN
					1/4" NPT	MDC-5MR-4-22-DN	MDC-5FR-4-22-DN
Back Mount Receptacles							
5	 M12 x 1	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 4A	18 AWG	N/A	MDC-5MR-BM-18-DN	MDC-5FR-BM-18-DN
				22 AWG	N/A	MDC-5MR-BM-22-DN	MDC-5FR-BM-22-DN

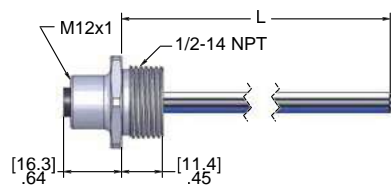
12" leads are standard. Longer lead lengths are available, please consult the factory for part numbers.
For 1/2" receptacles with lengths of 15" or longer O-ring and lock nut are included.

See Page K-17 for Faceview.

1/2"-14NPT Mounting Threads

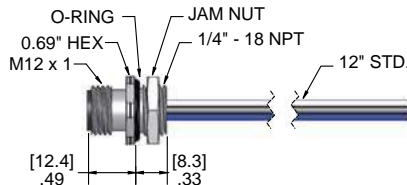


Male Receptacle

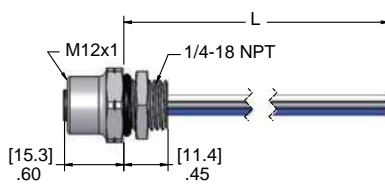


Female Receptacle

1/4"-18NPT Mounting Threads

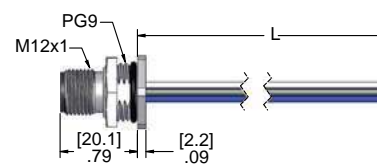


Male Receptacle

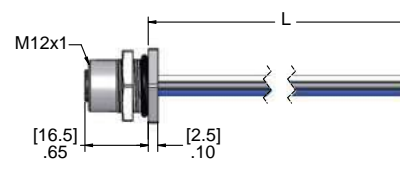


Female Receptacle

Back Mount Receptacles



Male Receptacle

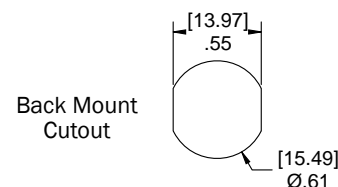


Female Receptacle

Specifications:

Body: 1/2" NPT: Clear Anodized Aluminum
1/4" NPT: Nickel Plated Brass
Insulator: Polyamide
Wire: 18 & 22 AWG 300V,
UL Style 1007/1569
Contacts: Copper Alloy with Gold Plating
Lock Nut: Zinc Plated Steel
Jam Nut: Nickel Plated Brass

O-Ring: NBR
Temperature: -40°C to + 105°C (-40°F to +221°F)





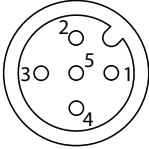
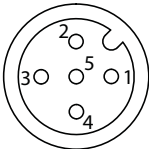
DeviceNet Series MDC Receptacles

5 Conductor DeviceNet Series MDC Receptacles, 22 & 24AWG



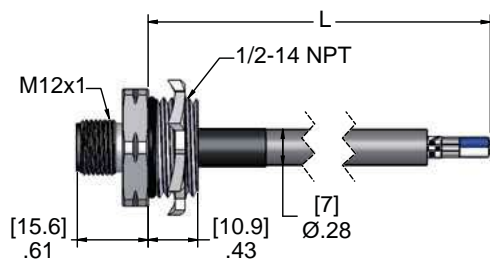
Front & Back Mount Receptacles with Drop Cable | 300 Volt, 4 amps | IP67 Rating



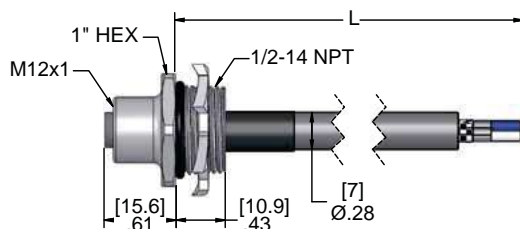
Front Mount Receptacles with Drop Cable - 1/2" NPT						
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Receptacle	Female Receptacle
5	 M12 x 1	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 4A	22 & 24 AWG	MDCDD-5MR-2-**	MDCDD-5FR-2-**
Back Mount Receptacles with Drop Cable						
5	 M12 x 1	1. Bare (Drain) 2. Red (V+) 3. Black (V-) 4. White (CAN_H) 5. Blue (CAN_L)	300V 4A	22 & 24 AWG	MDCDD-5MR-BM-**	MDCDD-5FR-BM-**

** Lengths in meters.

Standard Receptacles with Drop Cables

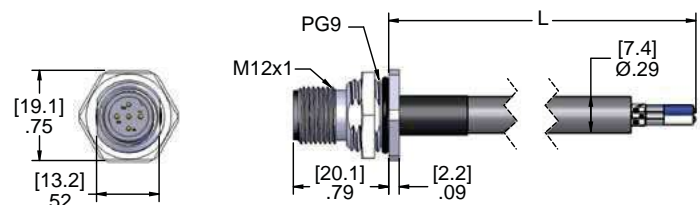


Male Receptacles



Female Receptacles

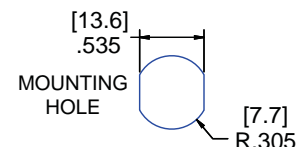
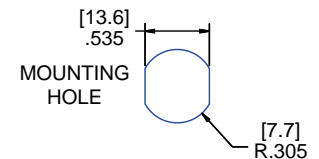
Back Mount Receptacles with Drop Cables



Male Receptacles



Female Receptacles





DeviceNet Series MDC Receptacles

5 Conductor DeviceNet Series MDC Receptacles

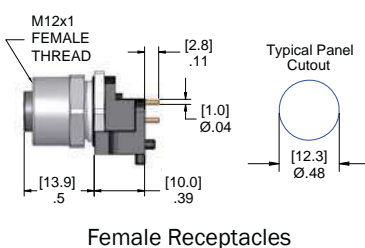
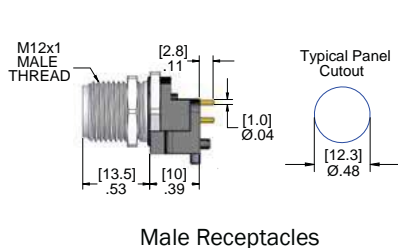


PCB Mount & PCB Back Mount Receptacles | 300 Volt, 4 amps | IP69 Rating

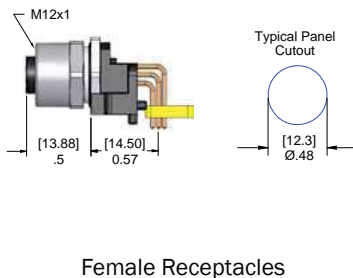
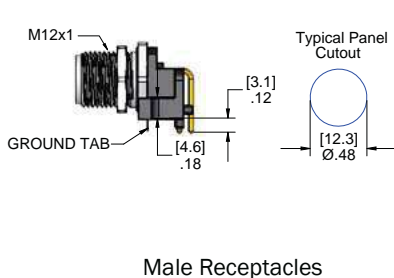


# of Poles	Male Faceview	Rating	Style	Male Receptacle	Female Receptacle
5	<p>M12 x 1</p>	300V 4A	Front Mount Straight	MDC-5MR-PCB	MDC-5FR-PCB
			Front Mount Right Angle	MDC-5MR-PCB-R	MDC-5FR-PCB-R
			Back Mount	MDC-5MR-BM-PCB	MDC-5FR-BM-PCB

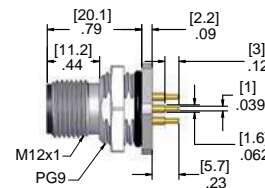
PCB Receptacles



PCB Receptacles Right Angle



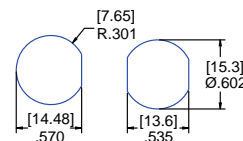
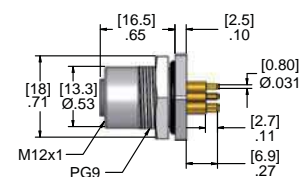
PCB Back Mount Receptacles



POSSIBLE MOUNTING HOLE DIMENSIONS



Male Receptacles



SUGGESTED PANEL CUTOUTS

Female Receptacles

Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Gold Plating
 Shell: Nickel Plated Brass
 O-Ring: NBR
 Jam Nut: Nickel Plated Brass
 Temperature: -40°C to 105°C (-40°F to +221°F)



DeviceNet Series Conduit Adapters

5 Conductor DeviceNet Series Conduit Adapters

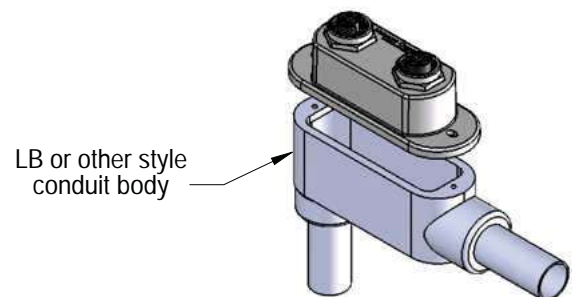


MIN & MDC Conduit Adapters | 1 & 2 Port | 40V, 4A | 40V, 8A | IP67 Rating

MIN (7/8"-16UN) Conduit Adapters						
# of Poles	Faceview	Rating	# of Ports	Part Number	Body Style	Circuit
5	 7/8"-16UN 1 = DRAIN 2 = +V 3 = -V 4 = CAN_H 5 = CAN_L 1 = -V 2 = CAN_L 3 = DRAIN 4 = CAN_H 5 = +V	40V 8A	1 Port	MINDN-1-5FR-CA		
	2 Port		MINDN-2-5FR-CA			
MDC (M12) Conduit Adapters						
5	 M12 x 1 1 = DRAIN 2 = +V 3 = -V 4 = CAN_H 5 = CAN_L 1 = -V 2 = CAN_L 3 = DRAIN 4 = CAN_H 5 = +V	40V 4A	1 Port	MDCDN-1-5FR-CA		
	2 Port		MDCDN-2-5FR-CA			

Specifications:

Housing: Glass Filled PBT
Recp. Shell: Nickel Plated Brass
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating
Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)



Remove existing Conduit Body cover and replace with Mencom Conduit Adapter.

Works with all standard 3/4" NPT conduit bodies, including Form 8 and Mark 9 adapters. (screws are included with adapter)



DeviceNet Series Junction Blocks






4 Port, 5 Conductor DeviceNet Series Junction Blocks



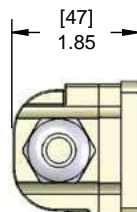
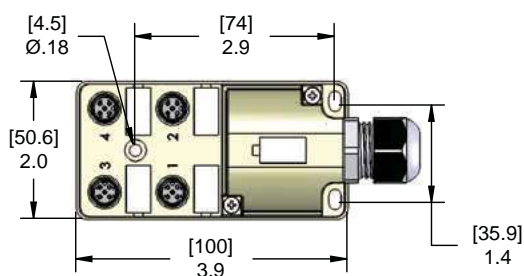
Junction Blocks | No Electronics | 4 Port, 5 Conductor | 300 Volt, 8 amps | IP67 Rating



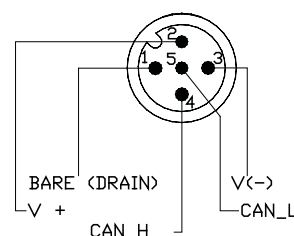
K
DeviceNet

Trunk Style	UL Rating	Trunk Connection	Part Number
	UL Listed	Field Wireable 24 AWG - 16 AWG	JDN-450-005-F000
	UL Listed	Gray PVC AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 11.2mm OD	JDN-450-005-C**
	N/A	M12 5 Pole Male Receptacle	JDN-450-005-E000
	N/A	MIN Size I 5 Pole Male Receptacle	JDN-450-005-M000
 0.3m Shown	N/A	DeviceNet MIN Size I 5 Pole Male Plug	JDN-450-005-M***

** Lengths in meters. Standard cable lengths are 0.3, 2, 5 & 10 meters. Consult factory for other lengths.



All Port Pin Wiring



Specifications:

Housing: Glass Filled PBT
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating

Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)




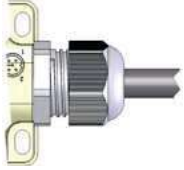



DeviceNet Series Junction Blocks

6 Port, 5 Conductor DeviceNet Series Junction Blocks



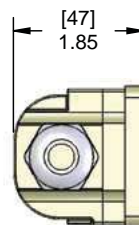
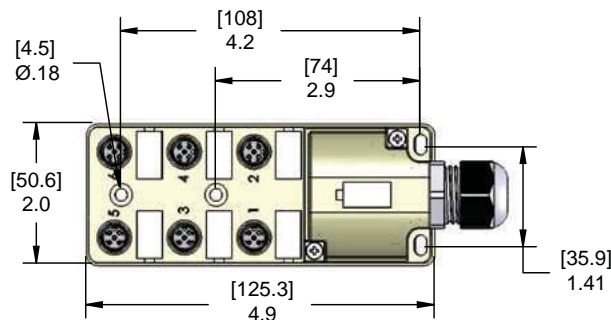
Junction Blocks | No Electronics | 6 Port, 5 Conductor | 300 Volt, 8 amps | IP67 Rating



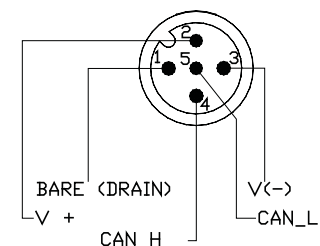
Trunk Style	UL Rating	Trunk Connection	Part Number
	UL Listed	Field Wireable 24 AWG - 16 AWG	JDN-650-005-F000
	UL Listed	Gray PVC AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 11.2mm OD	JDN-650-005-C**
	N/A	M12 5 Pole Male Receptacle	JDN-650-005-E000
	N/A	MIN Size I 5 Pole Male Receptacle	JDN-650-005-M000
 0.3m Shown	N/A	DeviceNet MIN Size I 5 Pole Male Plug	JDN-650-005-M***

** Lengths in meters. Standard cable lengths are 0.3, 2, 5 & 10 meters. Consult factory for other lengths.

*** Standard length for junction blocks with cable & plug is 0.3m with male threads on the plug. Cable & plug lengths longer than 0.3m will have female threads.



All Port Pin Wiring



Specifications:

Housing: Glass Filled PBT
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating

Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)








DeviceNet Series Junction Blocks

8 Port, 5 Conductor DeviceNet Series Junction Blocks



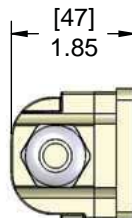
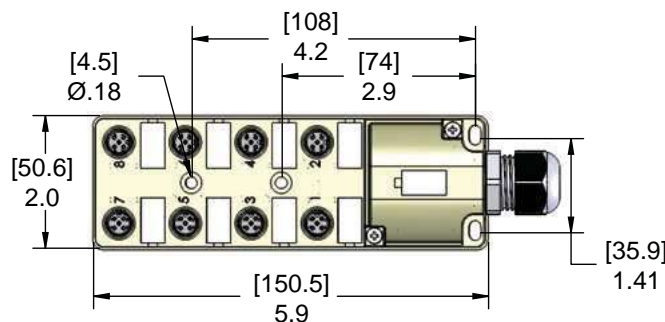
Junction Blocks | No Electronics | 8 Port, 5 Conductor | 300 Volt, 8 amps | IP67 Rating



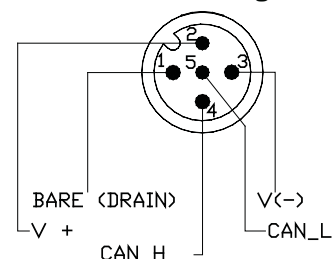
Trunk Style	UL Rating	Trunk Connection	Part Number
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	UL Listed	Gray PVC AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 11.2mm OD	JDN-850-005-C**
	N/A	M12 5 Pole Male Receptacle	JDN-850-005-E000
	N/A	MIN Size I 5 Pole Male Receptacle	JDN-850-005-M000
 0.3m Shown	N/A	DeviceNet MIN Size I 5 Pole Male Plug	JDN-850-005-M***

** Lengths in meters. Standard cable lengths are 0.3, 2, 5 & 10 meters. Consult factory for other lengths.

*** Standard length for junction blocks with cable & plug is 0.3m with male threads on the plug. Cable & plug lengths longer than 0.3m will have female threads.



All Port Pin Wiring



Specifications:

Housing: Glass Filled PBT
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating

Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)

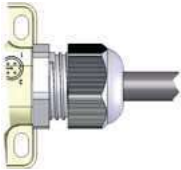





DeviceNet Series Junction Blocks

10 Port, 5 Conductor DeviceNet Series Junction Blocks

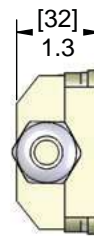
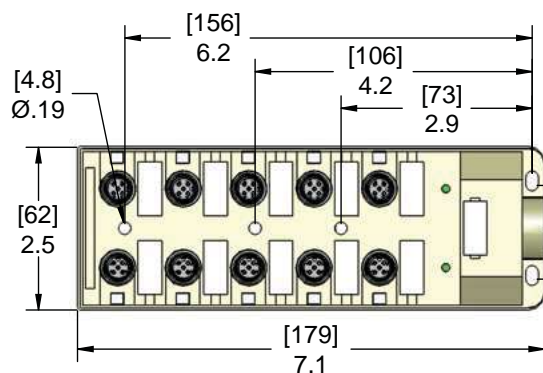


Junction Blocks | No Electronics | 10 Port, 5 Conductor | 300 Volt, 8 amps | IP67 Rating

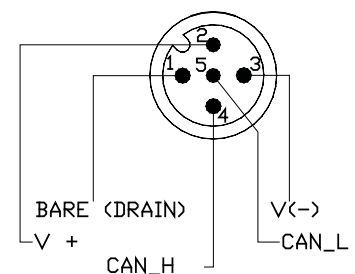
Trunk Style	UL Rating	Trunk Connection	Part Number
	N/A	Gray PVC AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 11.2mm OD	JDN-050-005-C**
	N/A	M12 5 Pole Male Receptacle	JDN-050-005-E000
	N/A	MIN Size I 5 Pole Male Receptacle	JDN-050-005-M000
 0.3m Shown	N/A	DeviceNet MIN Size I 5 Pole Male Plug	JDN-050-005-M***

** Lengths in meters. Standard cable lengths are 0.3, 2, 5 & 10 meters. Consult factory for other lengths.

*** Standard length for junction blocks with cable & plug is 0.3m with male threads on the plug. Cable & plug lengths longer than 0.3m will have female threads.



All Port Pin Wiring



Specifications:

Housing: Polypropylene
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating

Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)



DeviceNet Series Junction Blocks

12 Port, 5 Conductor DeviceNet Series Junction Blocks

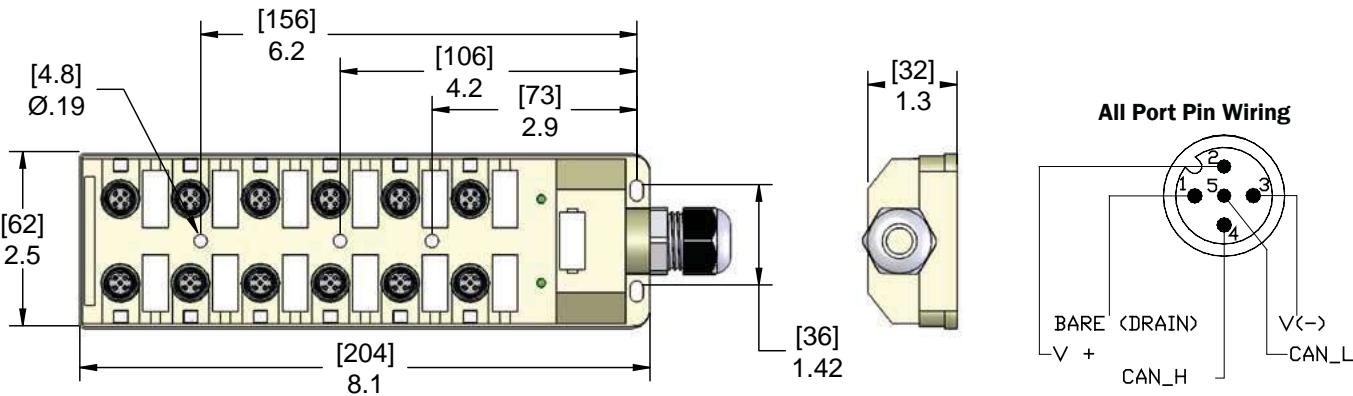


Junction Blocks | No Electronics | 12 Port, 5 Conductor | 300 Volt, 8 amps | IP67 Rating

Trunk Style	UL Rating	Trunk Connection	Part Number
	N/A	Gray PVC AWM With Braided Shield 2 X 15 AWG 2 X 18 AWG 1 x 18 AWG (Drain) 11.2mm OD	JDN-250-005-C**
	N/A	M12 5 Pole Male Receptacle	JDN-250-005-E000
	N/A	MIN Size I 5 Pole Male Receptacle	JDN-250-005-M000
 0.3m Shown	N/A	DeviceNet MIN Size I 5 Pole Male Plug	JDN-250-005-M***

** Lengths in meters. Standard cable lengths are 0.3, 2, 5 & 10 meters. Consult factory for other lengths.
 *** Standard length for junction blocks with cable & plug is 0.3m with male threads on the plug. Cable & plug lengths longer than 0.3m will have female threads.

K
DeviceNet



Specifications:

Housing:	Polypropylene	Gasket:	NBR
Insert:	Polyamide	Temperature:	-40°C to 70°C (-40°F to +158°F)
Contacts:	Copper Alloy with Gold Plating		



Ethernet Series

Etherplug (M12)

Over-Molded Cordsets | Armored Cordsets | Receptacles | Field Wireables | Switches | Accessories

UL File #:
E149111



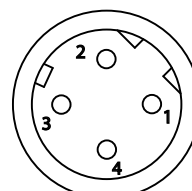
Industrial network systems allow for real-time distributed control of many connection points from a single controller. These “network bus” systems reduce the total amount of cable required and can simplify the overall design. Mencom offers a broad range of industrial network connectivity products to streamline your installation.

Industrial Ethernet

Using Ethernet in industrial applications is becoming more prevalent. This has increased the need for Ethernet product that is built to handle harsh environments. Mencom has addressed this need with a series of rugged Ethernet products. Our E45V3 series connectors allow for an IP67 rating while using standard RJ45 connectors.

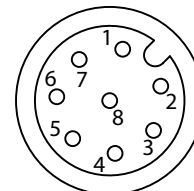
Mencom offers M12 threaded connectors. We refer to this series with a MDE45 prefix. Our MDE45 series utilizes M12 4 wire (D-Coded) connectors with 2 pair Cat 5e cables or M12 8 wire (A-Coded) connectors with 4 pair Cat 5e cable. The MDE45 is specifically used in Industrial Ethernet applications, and has teal cable using twisted pairs of wires inside. This connector has a unique keyway that is known as D-coded.

4 Pole

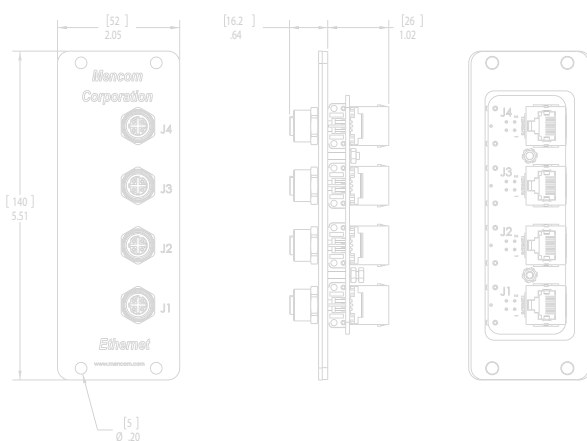


D-coded

8 Pole



A-coded



Ethernet Series

L

Ethernet Series

Etherplug (M12)



Contents

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Ethernet (M12) Series Etherplug Cordsets

Ethernet Series Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

MDE45 [] - [] [] - [] [] - [] [] - [] [] - [] [] - [] [] - [] []

Cable Type

Blank = PVC
P = PUR
PB = PUR / Braided Shield
M = Mylar Shield
WB = Continuous Flex. TPE / Braided

Number of Conductors

4
8

Connector Configuration

MP = Male Plug
FP = Female Plug
MFP = Male / Female Extension
MFRP = Male Straight / Female Right Angle
MRFP = Male Right Angle / Female Straight
MMP = Male/Male Extension
FFP = Female/Female Extension
MSP = Male-Shielded to Coupling Nut
FSP = Female-Shielded to Coupling Nut
MFPS = Male & Female-Shielded to Coupling Nut
MSFP = Male Shielded to Coupling Nut / Female Not
MFSP = Female Shielded to Coupling Nut / Male Not
MMSP = Male/Male Shielded to Coupling Nut
FFSP = Female/Female Shielded to Coupling Nut

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.

RJ45

RJ45 = RJ45 Male on Second End

Armor (See L-19 for more details)

Blank = No Armor
A01 = SS w/ Cable Inside
A03 = PVC Covered SS w/ Cable Inside
A50 = Silicone (Stops at Overmold)
A51 = Silicone (Covers Overmold)

Coupling Nut

Blank = Nickel plated brass
SS = Stainless Steel

Cable Jacket Color

Blank = Teal
RD = Red

R/A or Straight

Blank = Straight *
R = Right Angle **

* Unless the Connector Configuration is MFRP or MRFP
** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Ethernet Series

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Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG




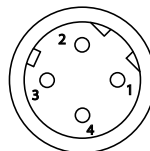
Straight Male Cordsets | 300 Volt, 4 amps | CAT5e | D-Coded | Twisted Pairs | IP67 Rating



Ethernet Series

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Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-4MP-**-	Teal PVC AWM 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC	1. White/Orange 2. White/Green 3. Orange 4. Green	 M12 x 1
	MDE45B-4MP-**-	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45B-4MSP-**-	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield to Coupling Nut		
	MDE45P-4MP-**-	Teal PUR AWM 4 X 24 AWG 300V, 4A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-4MP-**-	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45PB-4MSP-**-	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut		
	MDE45WB-4MP-**- (Teal) MDE45WB-4MP-**-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		
	MDE45WB-4MSP-**- (Teal) MDE45WB-4MSP-**-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "SS" suffix. (e.g. MDE45-4MP-1M becomes MDE45-4MP-1M-SS)



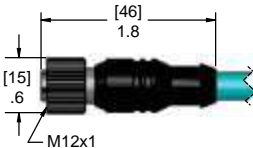
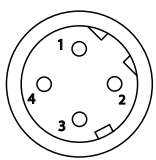
Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Straight Female Cordsets | 300 Volt, 4 amps | CAT5e | D-Coded | Twisted Pairs | IP67 Rating



Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-4FP-**	Teal PVC AWM 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC	<ol style="list-style-type: none">1. White/Orange2. White/Green3. Orange4. Green	 M12 x 1
	MDE45B-4FP-**	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45B-4FSP-**	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield to Coupling Nut		
	MDE45P-4FP-**	Teal PUR AWM 4 X 24 AWG 300V, 4A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-4FP-**	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45PB-4FSP-**	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut		
	MDE45WB-4FP-** MDE45WB-4FP-**-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		
	MDE45WB-4FSP-** (Teal) MDE45WB-4FSP-**-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-4FP-1M becomes MDE45-4FP-1M-SS)



Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Straight Male Cordsets | 60 Volt, 2 amps | CAT5e | A-Coded | Twisted Pairs | IP67 Rating



Ethernet Series

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Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-8MP-**	Teal PVC AWM 8 X 24 AWG 60V, 2A -20°C to +80°C 6.4mm OD	Industry Standard PVC	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	 M12 x 1
	MDE45B-8MP-**	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-8MP-**	Teal PUR AWM 8 X 24 AWG 60V, 2A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-8MP-**	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45PB-8MSP-**	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut		
	MDE45WB-8MP-**	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		
	MDE45WB-8MSP-**	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8MP-1M becomes MDE45-8MP-1M-SS)



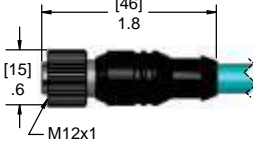
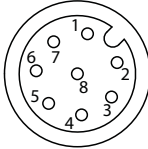
Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Straight Female Cordsets | 60 Volt, 2 amps | CAT5e | A-Coded | Twisted Pairs | IP67 Rating



Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-8FP-**	Teal PVC AWM 8 X 24 AWG 60V, 2A -20°C to +80°C 6.4mm OD	Industry Standard PVC	<ol style="list-style-type: none">1. White/Blue2. White/Brown3. Brown4. Orange5. White/Green6. White/Orange7. Blue8. Green	 M12 x 1
	MDE45B-8FP-**	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-8FP-**	Teal PUR AWM 8 X 24 AWG 60V, 2A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-8FP-**	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45PB-8FSP-**	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut		
	MDE45WB-8FP-**	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		
	MDE45WB-8FSP-**	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8FP-1M becomes MDE45-8FP-1M-SS)

Ethernet Series

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Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Right Angle Male Cordsets | 300 Volt, 4 amps | CAT5e | D-Coded | Twisted Pairs | IP67 Rating



Ethernet Series

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Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-4MP-**-R	Teal PVC AWM 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC	1. White/Orange 2. White/Green 3. Orange 4. Green	 M12 x 1
	MDE45B-4MP-**-R	Teal PVC AWM With Foil & Braided Shield 4 X 26 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-4MP-**-R	Teal PUR AWM 4 X 24 AWG 300V, 4A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-4MP-**-R	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45WB-4MP-**-R (Teal) MDE45WB-4MP-**-R-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-4MP-1M-R becomes MDE45-4MP-1M-R-SS)



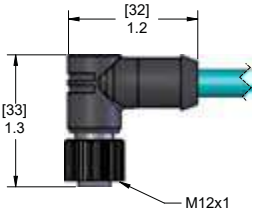
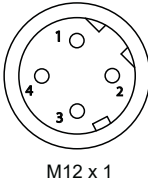
Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Right Angle Female Cordsets | 300 Volt, 4 amps | CAT5e | D-Coded | Twisted Pairs | IP67 Rating



Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-4FP-**-R	Teal PVC AWM 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC	1. White/Orange 2. White/Green 3. Orange 4. Green	 M12 x 1
	MDE45B-4FP-**-R	Teal PVC AWM With Foil & Braided Shield 4 X 26 AWG 300V, 4A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-4FP-**-R	Teal PUR AWM 4 X 24 AWG 300V, 4A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-4FP-**-R	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45WB-4FP-**-R (Teal) MDE45WB-4FP-**-R-RD (Red)	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-4FP-1M-R becomes MDE45-4FP-1M-R-SS)

Ethernet Series

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Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Right Angle Male Cordsets | 60 Volt, 2 amps | CAT5e | A-Coded | Twisted Pairs | IP67 Rating



Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-8MP-**-R	Teal PVC AWM 8 X 24 AWG 60V, 2A -20°C to +80°C 6.4mm OD	Industry Standard PVC	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	 M12 x 1
	MDE45B-8MP-**-R	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-8MP-**-R	Teal PUR AWM 8 X 24 AWG 60V, 2A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-8MP-**-R	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45WB-8MP-**-R	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8MP-1M-R becomes MDE45-8MP-1M-R-SS)

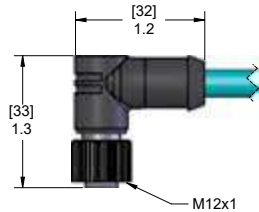


Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Right Angle Female Cordsets | 60 Volt, 2 amps | CAT5e | A-Coded | Twisted Pairs | IP67 Rating



Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	MDE45-8FP-**-R	Teal PVC AWM 8 X 24 AWG 60V, 2A -20°C to +80°C 6.4mm OD	Industry Standard PVC	<ol style="list-style-type: none">1. White/Blue2. White/Brown3. Brown4. Orange5. White/Green6. White/Orange7. Blue8. Green	 M12 x 1
	MDE45B-8FP-**-R	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield		
	MDE45P-8FP-**-R	Teal PUR AWM 8 X 24 AWG 60V, 2A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR		
	MDE45PB-8FP-**-R	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield		
	MDE45WB-8FP-**-R	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8FP-1M-R becomes MDE45-8FP-1M-R-SS)

Ethernet Series

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Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Double Ended Cordsets | 300V, 4A | CAT5e | D-Coded | Twisted Pairs | IP67 Rating

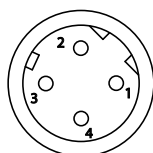


Only Male to Female versions are UL listed for safety concerns


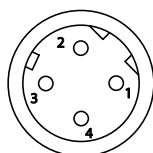


Ethernet Series

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M12 x 1

Male Faceview	Cables	Features	Male to Female 	Male to Male	Female to Female
	Teal PVC AWM 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC	MDE45-4MFP-**	MDE45-4MMP-**	MDE45-4FFP-**
	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -20°C to +80°C 6.1mm OD	Industry Standard PVC Foil & Braided Shield	MDE45B-4MFP-**	MDE45B-4MMP-**	MDE45B-4FFP-**
	Teal PUR AWM 4 X 24 AWG 300V, 4A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR	MDE45P-4MFP-**	MDE45P-4MMP-**	MDE45P-4FFP-**
	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	MDE45PB-4MFP-**	MDE45PB-4MMP-**	MDE45PB-4FFP-**
	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut	MDE45PB-4MFPS-**	MDE45PB-4MMPS-**	MDE45PB-4FFPS-**
	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	MDE45WB-4MFP-** (Teal) MDE45WB-4MFP-**-RD (Red)	MDE45WB-4MMP-** (Teal) MDE45WB-4MMP-**-RD (Red)	MDE45WB-4FFP-** (Teal) MDE45WB-4FFP-**-RD (Red)
	TPE AWM With Foil & Braided Shield 4 X 24 AWG 300V, 4A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut	MDE45WB-4MFPS-** (Teal) MDE45WB-4MFPS-**-RD (Red)	MDE45WB-4MMPS-** (Teal) MDE45WB-4MMPS-**-RD (Red)	MDE45WB-4FFPS-** (Teal) MDE45WB-4FFPS-**-RD (Red)

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "SS" suffix. (e.g. MDE45-4MFP-1M becomes MDE45-4MFP-1M-SS)



Male Plug



Female Plug



Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG


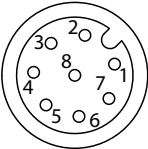


Double Ended Cordsets | 60V, 2A | CAT5e | Twisted Pairs | IP67 Rating



Only Male to Female versions are UL listed for safety concerns



Male Faceview	Cables	Features	Male to Female 	Male to Male	Female to Female
 M12 x 1	Teal PVC AWM 8 X 24 AWG 60V, 2A -20°C to +80°C 6.4mm OD	Industry Standard PVC	MDE45-8MFP-**	MDE45-8MMP-**	MDE45-8FFP-**
	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield	MDE45B-8MFP-**	MDE45B-8MMP-**	MDE45B-8FFP-**
	Teal PUR AWM 8 X 24 AWG 60V, 2A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR	MDE45P-8MFP-**	MDE45P-8MMP-**	MDE45P-8FFP-**
	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6.3mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	MDE45PB-8MFP-**	MDE45PB-8MMP-**	MDE45PB-8FFP-**
	Teal PUR With Foil & Braided Shield 8 X 26 AWG 60V, 2A -40°C to +75°C 6.3mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield to Coupling Nut	MDE45PB-8MFPS-**	MDE45PB-8MMPS-**	MDE45PB-8FFPS-**
	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	MDE45WB-8MFP-**	MDE45WB-8MMP-**	MDE45WB-8FFP-**
	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 60V, 2A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield to Coupling Nut	MDE45WB-8MFPS-**	MDE45WB-8MMPS-**	MDE45WB-8FFPS-**

Ethernet Series

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** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8MFP-1M becomes MDE45-8MFP-1M-SS)



Male Plug



Female Plug



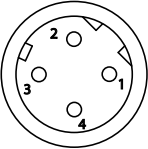
Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Double Ended Cordsets | 42 VDC, 1.5 amps | CAT5e | D-Coded | Twisted Pairs | IP20 Rating






Male Faceview	Cables	Features	Shield Type	Male to RJ45	Female to RJ45
 M12 x 1	Teal PVC AWM 4 X 24 AWG 42VDC, 1.5A -20°C to +80°C 6.1mm OD	Industry Standard PVC	Shield not Terminated	MDE45-4MP-RJ45-**	MDE45-4FP-RJ45-**
	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield	Shield not Terminated	MDE45B-4MP-RJ45-**	MDE45B-4FP-RJ45-**
	Teal PUR AWM 4 X 24 AWG 42VDC, 1.5A -40°C to +80°C 5.6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR	Shield not Terminated	MDE45P-4MP-RJ45-**	MDE45P-4FP-RJ45-**
	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	Shield not Terminated	MDE45PB-4MP-RJ45-**	MDE45PB-4FP-RJ45-**
	TPE AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	Shield not Terminated	MDE45WB-4MP-RJ45-** (Teal) MDE45WB-4MP-RJ45-**-RD (Red)	MDE45WB-4FP-RJ45-** (Teal) MDE45WB-4FP-RJ45-**-RD (Red)

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-4MP-RJ45-1M becomes MDE45-4MP-RJ45-1M-SS)

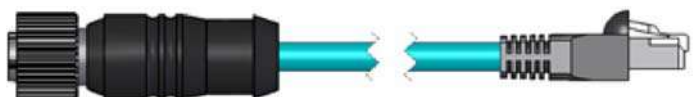
Red cable jacket is available only for TPE, for red cable jacket add a "-RD" suffix. (e.g. MDE45WB-4MSP-RJ45-1M becomes MDE45WB-4MSP-RJ45-1M-RD)

Mencom Standard Cable Color Code

MDE45		Color		RJ45
1		White/Orange		1
3		Orange		2
2		White/Green		3
4		Green		6



Male - RJ45 Extension



Female - RJ45 Extension



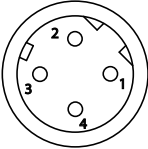
Ethernet (M12) Series Etherplug Cordsets

4 Conductor Ethernet Series Cordsets, 24AWG



Double Ended Cordsets | 42 VDC, 1.5 amps | CAT5e | D-Coded | Twisted Pairs | IP20 Rating





Male Faceview	Cables	Features	Shield Type	Male to RJ45	Female to RJ45
 M12 x 1	Teal PVC AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -20°C to +80°C 6.6mm OD	Industry Standard PVC Foil & Braided Shield	Shield to Coupling Nut	MDE45B-4MSP-RJ45-**	MDE45B-4FSP-RJ45-**
			Shield to RJ45	MDE45B-4MP-RJ45S-**	MDE45B-4FP-RJ45S-**
			Shield to Coupling Nut & RJ45	MDE45B-4MSP-RJ45S-**	MDE45B-4FSP-RJ45S-**
	Teal PUR AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -40°C to +80°C 6.4mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	Shield to Coupling Nut	MDE45PB-4MSP-RJ45-**	MDE45PB-4FSP-RJ45-**
			Shield to RJ45	MDE45PB-4MP-RJ45S-**	MDE45PB-4FP-RJ45S-**
			Shield to Coupling Nut & RJ45	MDE45PB-4MSP-RJ45S-**	MDE45PB-4FSP-RJ45S-**
	TPE AWM With Foil & Braided Shield 4 X 24 AWG 42VDC, 1.5A -40°C to +80°C 6.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	Shield to Coupling Nut	MDE45WB-4MSP-RJ45-**	MDE45WB-4FSP-RJ45-**
			Shield to RJ45	MDE45WB-4MP-RJ45S-**	MDE45WB-4FP-RJ45S-**
			Shield to Coupling Nut & RJ45	MDE45WB-4MSP-RJ45S-**	MDE45WB-4FSP-RJ45S-**

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "SS" suffix. (e.g. MDE45-4MP-RJ45-1M becomes MDE45-4MP-RJ45-1M-SS)

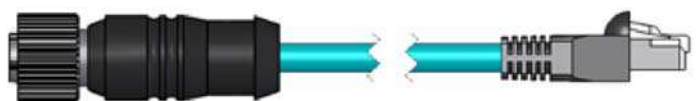
Red cable jacket is available only for TPE, for red cable jacket add a "RD" suffix. (e.g. MDE45WB-4MSP-RJ45-1M becomes MDE45WB-4MSP-RJ45-1M-RD)

Mencom Standard Cable Color Code

MDE45		Color		RJ45
1		White/Orange		1
3		Orange		2
2		White/Green		3
4		Green		6



Male - RJ45 Extension



Female - RJ45 Extension



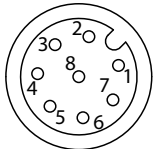
Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Double Ended Cordsets | 42 VDC, 1.5 amps | CAT5e | A-Coded | Twisted Pairs | IP20 Rating













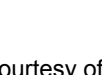
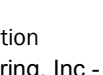

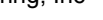


Male Faceview	Cables	Features	Shield Type	Male to RJ45	Female to RJ45
 M12 x 1	Teal PVC AWM 8 X 24 AWG 42VDC, 1.5A -20°C to +80°C 6.4mm OD	Industry Standard PVC	Shield not Terminated	MDE45-8MP-RJ45-**	MDE45-8FP-RJ45-**
	Teal PVC AWM With Foil & Braided Shield 8 X 24 AWG 42VDC, 1.5A -20°C to +80°C 7.6mm OD	Industry Standard PVC Foil & Braided Shield	Shield not Terminated	MDE45B-8MP-RJ45-**	MDE45B-8FP-RJ45-**
	Teal PUR AWM 8 X 24 AWG 42VDC, 1.5A -40°C to +80°C 6.3 mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR	Shield not Terminated	MDE45P-8MP-RJ45-**	MDE45P-8FP-RJ45-**
	Teal PUR With Foil & Braided Shield 8 X 26 AWG 42VDC, 1.5A -40°C to +75°C 6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	Shield not Terminated	MDE45PB-8MP-RJ45-**	MDE45PB-8FP-RJ45-**
	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 42VDC, 1.5A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	Shield not Terminated	MDE45WB-8MP-RJ45-**	MDE45WB-8FP-RJ45-**

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

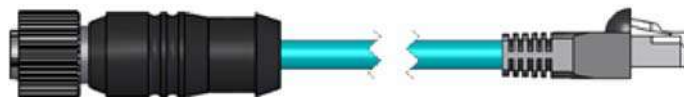
Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8MP-RJ45-1M becomes MDE45-8MP-RJ45-1M-SS)

Mencom Standard Cable Color Code

M12		Color		RJ45
6		White/Orange		1
4		Orange		2
1		White/Blue		5
7		Blue		4
5		White/Green		3
8		Green		6
2		White/Brown		7
3		Brown		8



Male - RJ45 Extension



Female - RJ45 Extension



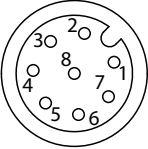
Ethernet (M12) Series Etherplug Cordsets

8 Conductor Ethernet Series Cordsets, 24/26AWG



Double Ended Cordsets | 42 VDC, 1.5 amps | CAT5e | A-Coded | Twisted Pairs | IP20 Rating



Male Faceview	Cables	Features	Shield Type	Male to RJ45	Female to RJ45
 M12 x 1	Teal PUR With Foil & Braided Shield 8 X 26 AWG 42VDC, 1.5A -40°C to +75°C 6mm OD	Continuous-Flex Oil and Cutting Fluid Resistant Cut Resistant PUR Foil & Braided Shield	Shield to Coupling Nut	MDE45PB-8MSP-RJ45-**	MDE45PB-8FSP-RJ45-**
			Shield to RJ45	MDE45PB-8MP-RJ45S-**	MDE45PB-8FP-RJ45S-**
			Shield to Coupling Nut & RJ45	MDE45PB-8MSP-RJ45S-**	MDE45PB-8FSP-RJ45S-**
	Teal TPE AWM With Foil & Braided Shield 8 X 24 AWG 42VDC, 1.5A -40°C to +80°C 7.6mm OD	Continuous-Flex Weld Slag Resistant TPE Foil & Braided Shield	Shield to Coupling Nut	MDE45WB-8MSP-RJ45-**	MDE45WB-8FSP-RJ45-**
			Shield to RJ45	MDE45WB-8MP-RJ45S-**	MDE45WB-8FP-RJ45S-**
			Shield to Coupling Nut & RJ45	MDE45WB-8MSP-RJ45S-**	MDE45WB-8FSP-RJ45S-**

















** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. MDE45-8FP-RJ45-1M becomes MDE45-8FP-RJ45-1M-SS)

Ethernet Series

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Mencom Standard Cable Color Code

M12		Color		RJ45
6		White/Orange		1
4		Orange		2
1		White/Blue		5
7		Blue		4
5		White/Green		3
8		Green		6
2		White/Brown		7
3		Brown		8



Male - RJ45 Extension



Female - RJ45 Extension



Ethernet Series Etherlink RJ45 Cordsets

8 Conductor Ethernet Series RJ45 Cordsets

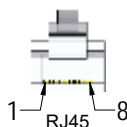
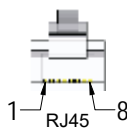
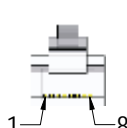


Double Ended Cordsets | 42 VDC, 1.5 amps | CAT5e/CAT6a | Strain Relief | IP20 Rating



Ethernet Series

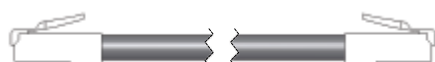
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RJ45 Male to Male Plug with No Strain Relief							
# of Poles	Front View	Wire AWG Rating	Cable Standard	Cables	Shield Type	Jacket Color	Part Number
8		24 AWG	CAT5e	PVC	N/A	Gray	RJ45-*
		42 VDC 1.5 A		PUR	N/A	Gray	RJ45P-**
RJ45 Male to Male Plug with Over-Molded Strain Relief							
8		24 AWG 42 VDC 1.5 A	CAT5e	PVC Over-Molded	N/A	Blue	RJ45-IC-*-BU
						Red	RJ45-IC-*-RD
						Black	RJ45-IC-*-BK
			CAT6a	PVC Over-Molded	Foil Shield to RJ45 Connectors	Gray	RJ45S-IC-*-GY
		Blue			RJ45S-IC-*-BU		
		Blue			RJ45C6-IC-*-BU		
RJ45 Male to Male Plug with Strain Relief							
4		24 AWG 42 VDC 1.5 A	CAT5e	PVC	N/A	Teal	RJ45-4MMP-**
				PVC	Foil Shield to RJ45 Connectors	Teal	RJ45S-4MMP-**
				PUR	Foil & Braided Shield to RJ45 Connectors	Teal	RJ45SP-4MMP-**
				TPE	Foil & Braided Shield to RJ45 Connectors	Teal	RJ45SW-4MMP-**
8		24 AWG 42 VDC 1.5 A	CAT5e	PVC	N/A	Teal	RJ45-8MMP-**
				PUR	N/A	Teal	RJ45P-8MMP-**
				PUR	Foil & Braided Shield to RJ45 Connectors	Teal	RJ45SP -8MMP-**
				TPE	Foil & Braided Shield to RJ45 Connectors	Teal	RJ45SW-8MMP-**
		26 AWG 42 VDC 1.5 A	CAT5e	PVC	Foil Shield to RJ45 Connectors	Blue	RJ45S-8MMP-**
			CAT6a	PVC	Foil Shield to RJ45 Connectors	Blue	RJ45C6-8MMPS-**

* Lengths in feet. Standard cable lengths are 1, 3, 7, 10, 15, 20, 25 & 50 feet. Consult factory for other lengths.

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Cable specifications on Page L-22~23 apply to only 24 AWG 4MMP & 8MMP cables in the table.



RJ45 Male to Male Plug



Over-Molded RJ45 Male to Male Plug



RJ45 Male to Male Plug with Strain Relief

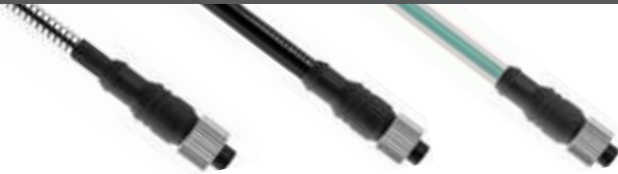


Ethernet (M12) Series Armored Cordsets

Connectivity Solutions for Harsh & Rugged Environments



Stainless Steel Armor | PVC Covered Jacket | Silicone Tube



Connector Body Style	Suffix Number	Description	Features
	A01	Stainless Steel with Cable Inside	Crush, Corrosion and Abrasion Resistant
	A03	PVC Covered Stainless Steel with Cable Inside	Water Tight Crush, Corrosion and Abrasion Resistant
	A50	Silicone Tube (Stops at Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant
	A51	Silicone Tube (Covers Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant

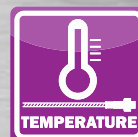
To specify Armored Cable, add the suffix number shown in the table above to the end of the part number (e.g. MDE45-4FP-1M becomes MDE45-4FP-1M-A03).

Why do I need this product?

- To extend the life of existing assemblies in potentially destructive environments.
- Connectorize to make faster installation and future repairs.

Where are these products used?

Harsh & Rugged Environments exposed to Chemicals, Abrasions, High Temperature, Wash Down, Welding, Cutting, Marine Applications...



Ethernet Series

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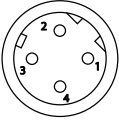
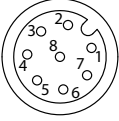
Ethernet (M12) Series Etherplug Field Wireable Plugs

4 Conductor Ethernet Series Field Wireable Plugs, 18-24AWG



Field Wireable Plugs | 4 Pole D-Coded | 8 Pole A-Coded | IP67 Rating



# of Poles	Male Faceview	Wire AWG Rating	Cable O.D. Range	Male plugs		Female Plugs	
				Straight	Right Angle	Straight	Right Angle
4	 M12 x 1	18-24 AWG 250V 4A	3-6.5 mm	MDE45-4MP-FW07	MDE45-4MP-FW07-R	MDE45-4FP-FW07	MDE45-4FP-FW07-R
			4-8 mm	MDE45-4MP-FW09	MDE45-4MP-FW09-R	MDE45-4FP-FW09	MDE45-4FP-FW09-R
8	 M12 x 1	18-24 AWG 250V 4A	3-6.5 mm	MDC-8MP-FW07	MDC-8MP-FW07-R	MDC-8FP-FW07	MDC-8FP-FW07-R
			4-8 mm	MDC-8MP-FW09	MDC-8MP-FW09-R	MDC-8FP-FW09	MDC-8FP-FW09-R

These connectors are easily wired by inserting the individual wires into the screw terminal contacts. The Connectors are water tight to IP67 and are fully mateable with other D-Coded M12 connectors.

Straight Field Wireable Plugs

Right Angle Field Wireable Plugs



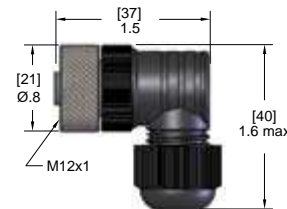
Male Plugs



Female Plugs



Male Plugs



Female Plugs

Specifications:

Body: Black Polyamide
 Insulator: Black Polyamide
 Contacts: Copper Alloy with Gold Plating
 Coupling Nut: Nickel Plated Brass
 Seal: NBR
 Temperature: -25°C to +85°C (-13°F to +185°F)



Ethernet (M12) Series Etherplug Field Wireable Plugs
4 & 8 Conductor Ethernet Series Field Wireable Plugs, 18-24/20-24AWG



Straight Field Wireable Plugs | Shielded | 4 Pole D-Coded | 8 Pole A-Coded | IP67 Rating

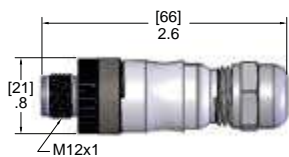


# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
4	 M12 x 1	250V 4A	18-24 AWG	3-9 mm	MDE45M-4MP-FW	MDE45M-4FP-FW
8	 M12 x 1	50V 4A	20-24AWG	6-8 mm	MDCM-8MP-FW	MDCM-8FP-FW

These connectors are easily wired by inserting the individual wires into the screw terminal contacts. The Connectors are water tight to IP 67 and are fully mateable with other D-Coded M12 connectors.

4 Pole Version

8 Pole Version



Male Straight



Female Straight



Male Straight



Female Straight



Specifications:

Body: Nickel Plated Brass
Insulator: Black Polyamide
Contacts: Copper Alloy with Gold Plating

Coupling Nut: Nickel Plated Brass
Seal: NBR
Temperature: -25°C to +85°C (-13°F to +185°F)

Ethernet Series

L



Ethernet Series Accessories

4 Conductor Ethernet Series Accessory Cables



100' Cables | Raw Cable Spools | CAT5e | Twisted Pairs

Ethernet Series

L

4

# of Conductors	Color Code	Wire AWG Rating	Features	DC Resistance	Continuous Flex	Part Number	
						100' Cable	Spool
4	White/Orange White/Green Orange Green	24 AWG Stranded 600V	Teal PVC AWM CMX/CMR -20°C to +80°C 6.1mm OD (0.24" OD)	≤ 89 Ω/Km	No	MDE45-4CBL-C	60C0001-*
		24 AWG Stranded 600V	Teal PVC AWM CMX/CMR With Foil/Braided Shield -20°C to +80°C 6.6mm OD (0.26" OD)	≤ 89 Ω/Km	No	MDE45B-4CBL-C	60CS001-*
		24 AWG Stranded 300V	Teal PUR AWM -40°C to +80°C 5.6mm OD (0.22" OD)	≤ 91 Ω/Km	Yes	MDE45P-4CBL-C	60CP001-*
		24 AWG Stranded 300V	Teal PUR AWM With Foil/Braided Shield -40°C to +80°C 6.4mm OD (0.25" OD)	≤ 91 Ω/Km	Yes	MDE45PB-4CBL-C	60CSP01-*
		24 AWG Stranded 600V	Teal TPE AWM CMX/CMR With Foil/Braided Shield -40°C to +80°C 6.6mm OD (0.26" OD)	≤ 140 Ω/Km	Yes	MDE45WB-4CBL-C	60CSW01-*
		24 AWG Stranded 600V	Red TPE AWM CMX/CMR With Foil/Braided Shield -40°C to +80°C 6.6mm OD (0.26" OD)	≤ 140 Ω/Km	Yes	MDE45WB-4CBL-C-RD	60CSWR1-*

* Standard raw spool lengths are 0250, 0500, 0750 & 1000 feet. Consult factory for other lengths.

All testing is conducted off the reel and without connectors attached.

Cable Construction subject to change without notice.



Ethernet Series Accessories

8 Conductor Ethernet Series Accessory Cables



100' Cables | Raw Cable Spools | CAT5e | Twisted Pairs

# of Conductors	Color Code	Wire AWG Rating	Features	DC Resistance	Continuous Flex	Part Number	
						100' Cable	Spool
8	White/Blue White/Brown Brown Orange White/Green White/Orange Blue Green	24 AWG Stranded 600V	Teal PVC AWM CMX/CMR -20°C to +80°C 6.4mm OD (0.25" OD)	≤ 89 Ω/Km	No	MDE45-8CBL-C	60G0001-*
		24 AWG Stranded 600V	Teal PVC AWM With Foil/Braided Shield -20°C to +80°C 7.6mm OD (0.30" OD)	≤ 89 Ω/Km	No	MDE45B-8CBL-C	60GS001-*
		24 AWG Stranded 300V	Teal PUR AWM -40°C to +80°C 6.3mm OD (0.25" OD)	≤ 91 Ω/Km	Yes	MDE45P-8CBL-C	60GP001-*
		26 AWG Stranded 300V	Teal PUR CMX With Foil/Braided Shield -40°C to +75°C 6mm OD (0.24" OD)	≤ 140 Ω/Km	Yes	MDE45PB-8CBL-C	60GSP02-*
		24 AWG Stranded 600V	Teal TPE AWM CMX/CMR With Foil/Braided Shield -40°C to +80°C 7.6mm OD (0.30" OD)	≤ 86 Ω/Km	Yes	MDE45WB-8CBL-C	60GSW01-*

Ethernet Series

L

* Standard raw spool lengths are 0250, 0500, 0750 & 1000 feet. Consult factory for other lengths.

All testing is conducted off the reel and without connectors attached.

Cable Construction subject to change without notice.



Notes:



Ethernet (M12) Series Etherplug Receptacles

Ethernet Series Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

MDE45 - - - - - - - -

Number of Conductors

4
8

Connector Configuration

MR = Male Receptacle
FR = Female Receptacle

RJ45

Blank = No RJ45
RJ45 = RJ45 Male on Second End
RJ45S = RJ45 Shielded Male on Second End

Mounting Style

2 = Front Mount 1/2"-14 NPT
4 = Front Mount 1/4"-18 NPT
PG9 = Front Mount PG 9 Threads
M16 = Front Mount Metric 16 Threads
M20 = Front Mount Metric 20 Threads
BM = Back Mount
TM = Through Panel Mount

Shell Material

Blank = Aluminum or Nickel plated brass
SS = Stainless Steel

Color Code

Blank = Standard Color Code w/ Cable
E45 = Discrete Wire Ethernet Color Code
CC = Cross-Over Color Code

Length in Meters

Termination Type

Blank = Pre-Wired
PCB = PCB Mount
PCB-R = PCB Right Angle

Ethernet Series

L



Ethernet (M12) Series Etherplug Receptacles

Ethernet Series Receptacle Index



Front Mount

Ethernet Series

L

Front Mount, Male, 1/4"-18NPT, 12" Leads	Page L-31	Front Mount, Female, 1/4"-18NPT, 12" Leads	Page L-31
Front Mount, Male, 1/2"-14NPT, 12" Leads	Page L-31	Front Mount, Female, 1/2"-14NPT, 12" Leads	Page L-31
Front Mount, Male, PG 9, 12" Leads	Page L-31	Front Mount, Female, PG 9, 12" Leads	Page L-31
Front Mount, Male, M20, 12" Leads	Page L-31	Front Mount, Female, M20, 12" Leads	Page L-31

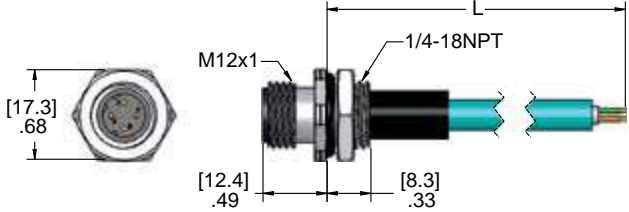
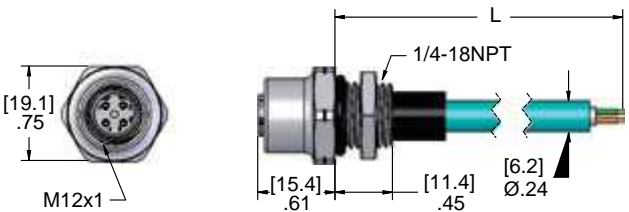
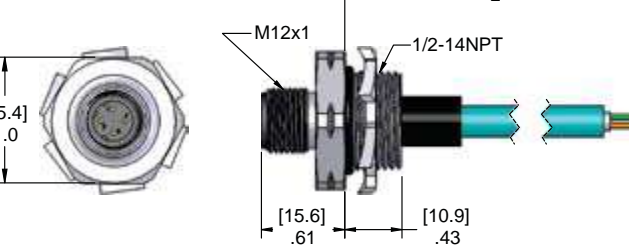
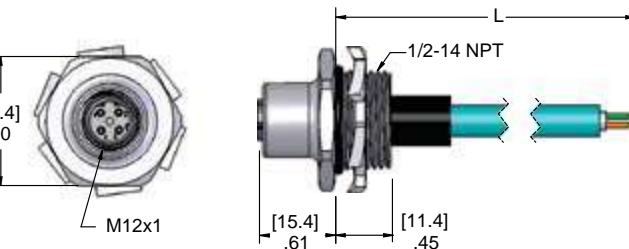
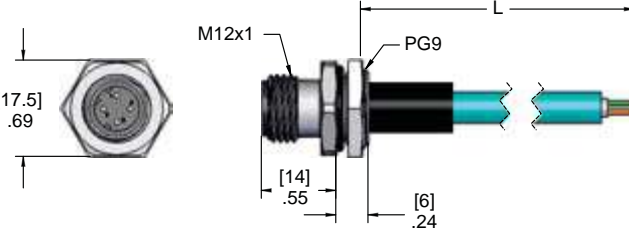
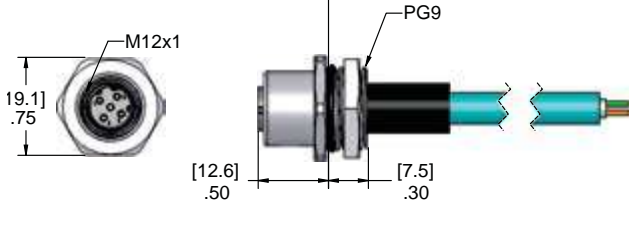
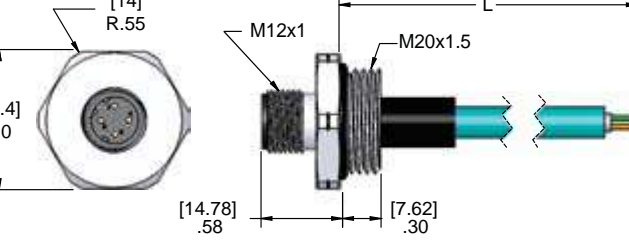
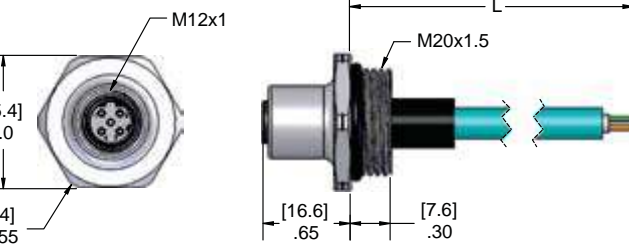


Ethernet (M12) Series Etherplug Receptacles

Ethernet Series Receptacle Index



Front Mount

Front Mount, Male, 1/4"-18NPT, CAT5e Cable Page L-32	Front Mount, Female, 1/4"-18NPT, CAT5e Cable Page L-32
	
Front Mount, Male, 1/2"-14NPT, CAT5e Cable Page L-32	Front Mount, Female, 1/2"-14NPT, CAT5e Cable Page L-32
	
Front Mount, Male, PG 9, CAT5e Cable Page L-32	Front Mount, Female, PG 9, CAT5e Cable Page L-32
	
Front Mount, Male, M20, CAT5e Cable Page L-32	Front Mount, Female, M20, CAT5e Cable Page L-32
	

Ethernet Series

L



Ethernet (M12) Series Etherplug Receptacles

Ethernet Series Receptacle Index



Front Mount | Back Mount

Ethernet Series
L

Front Mount, Male, 1/2"-14NPT to Male RJ45 Page L-33	Front Mount, Female, 1/2"-14NPT to Male RJ45 Page L-33
<p>Technical drawing of a front-mount male receptacle. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [25.4] 1.0, a mounting hole diameter of [15.6] .61, and a distance of [10.9] .43 from the mounting hole to the start of the cable. The total length is L. The connector is labeled M12x1 and 1/2-14 NPT.</p>	<p>Technical drawing of a front-mount female receptacle. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [25.4] 1.0, a mounting hole diameter of [15.3] .60, and a distance of [11.4] .45 from the mounting hole to the start of the cable. The total length is L. The connector is labeled M12x1 and 1/2-14 NPT.</p>
Back Mount, Male, 12" Leads Page L-34	Back Mount, Female, 12" Leads Page L-34
<p>Technical drawing of a back-mount male receptacle with 12-inch leads. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [19.1] .75, a mounting hole diameter of [20.1] .79, a lead length of 12 inches, a panel cutout diameter of [15.3] Ø.60, and a distance of [13.8] .54 from the mounting hole to the start of the lead. The connector is labeled M12x1 and PG9.</p>	<p>Technical drawing of a back-mount female receptacle with 12-inch leads. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [19.1] .75, a mounting hole diameter of [16.5] .65, a lead length of 12 inches, a panel cutout diameter of [15.3] Ø.60, and a distance of [13.8] .54 from the mounting hole to the start of the lead. The connector is labeled M12x1 FEMALE THREAD and PG9.</p>
Back Mount, Male, CAT5e Cable Page L-34	Back Mount, Female, CAT5e Cable Page L-34
<p>Technical drawing of a back-mount male receptacle for CAT5e cable. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [19.1] .75, a mounting hole diameter of [20.1] .79, a total length of L, a cable diameter of [13.6] .535, and a panel cutout diameter of [15.3] Ø.602. The connector is labeled M12x1 and PG9. A suggested panel cutout is indicated.</p>	<p>Technical drawing of a back-mount female receptacle for CAT5e cable. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [19.1] .75, a mounting hole diameter of [16.6] .65, a total length of L, a cable diameter of [13.6] .535, and a panel cutout diameter of [15.3] Ø.602. The connector is labeled M12x1 and PG9. A suggested panel cutout is indicated.</p>
Male Back Mount MDE45 Male to Male RJ45 Page L-35	Female Back Mount MDE45 Female to Male RJ45 Page L-35
<p>Technical drawing of a male back-mount MDE45 receptacle. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [18] .71, a mounting hole diameter of [20.1] .79, a total length of L, a cable diameter of [13.5] .53, and a panel cutout diameter of [15.5] Ø.61. The connector is labeled M12x1 and PG9. A panel cut-out is indicated.</p>	<p>Technical drawing of a female back-mount MDE45 receptacle. It features a hexagonal panel with a central port. The drawing shows the side profile with dimensions: a panel diameter of [18] .71, a mounting hole diameter of [16.5] .65, a total length of L, a cable diameter of [13.5] .53, and a panel cutout diameter of [15.5] Ø.61. The connector is labeled M12x1 and PG9. A panel cut-out is indicated.</p>



PCB Mount, Male, Straight	PCB Mount, Female, Straight
<p>Page L-36</p>	<p>Page L-36</p>
PCB Mount, Male, Right Angle	PCB Mount, Female, Right Angle
<p>Page L-36</p>	<p>Page L-36</p>
PCB Back Mount, Male	PCB Back Mount, Female
<p>Page L-36</p>	<p>Page L-36</p>
Panel Mount, Male M12 to Female RJ45	Panel Mount, Female M12 to Female RJ45
<p>Page L-37</p>	<p>Page L-37</p>



Ethernet (M12) Series Etherplug Receptacles

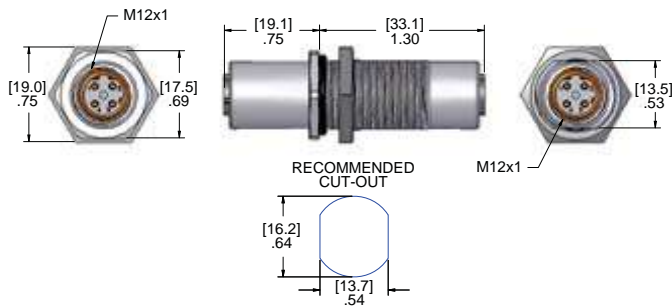
Ethernet Series Receptacle Index



Through Panel Mount | Panel Mount Adapter | Etherlink V3

Through Panel Mount

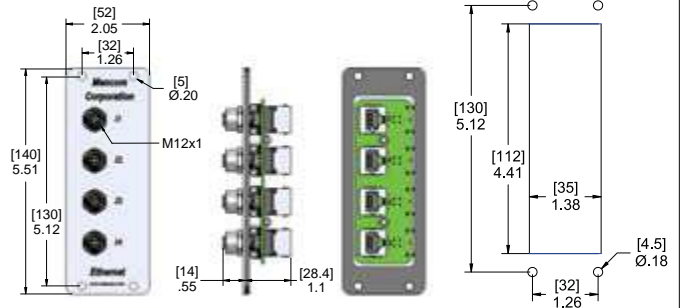
Page L-38



Female to Female shown - Male to Female also available.

Panel Mount Adapter, MDE45 to RJ45

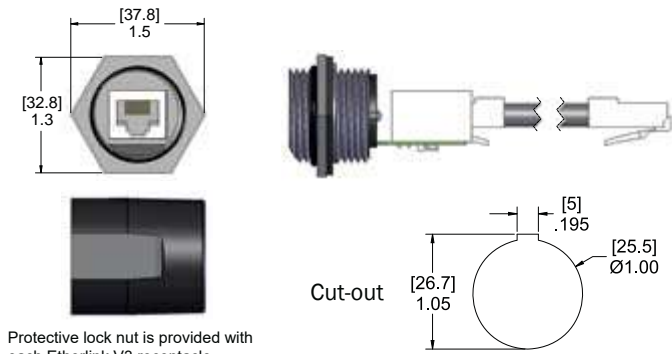
Page L-40 ~ L-41



Size 24 is shown. Size 32 is also available.

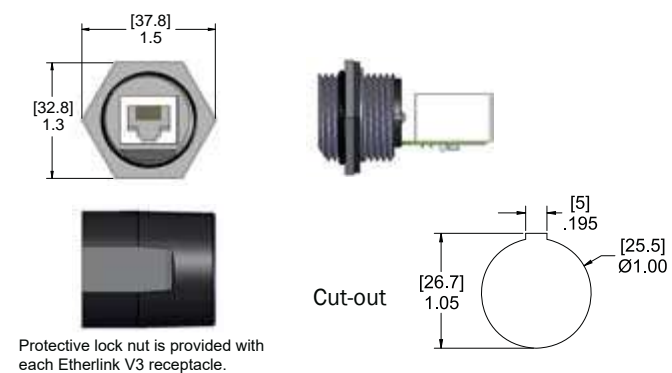
RJ45 Etherlink V3 Female to Male RJ45, CAT5e Cable

Page L-43



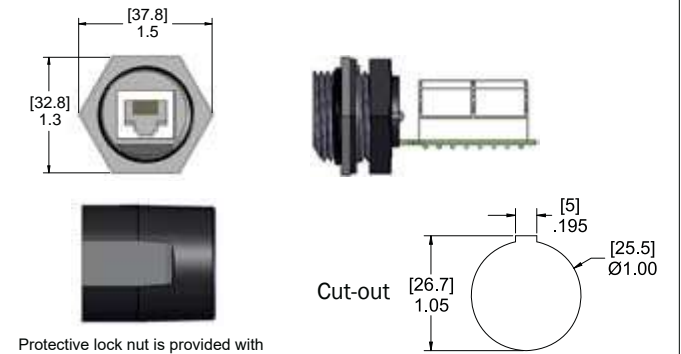
RJ45 Etherlink V3 Female to Female RJ45 Receptacle

Page L-43



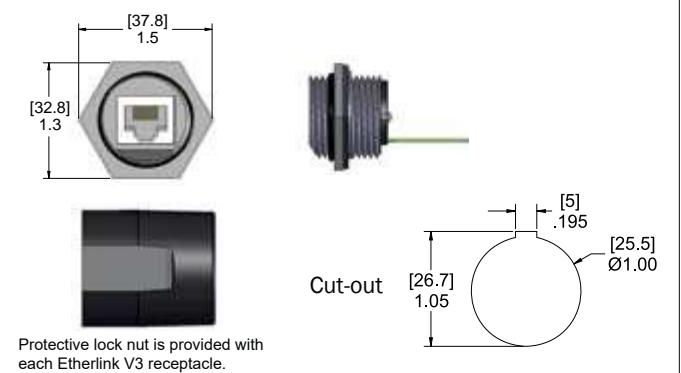
RJ45 Etherlink V3 Female to 110 Puchdown Block

Page L-43



RJ45 Etherlink V3 Field Wireable, Solder to Board

Page L-43





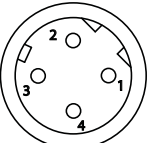
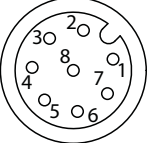
Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles, 24AWG



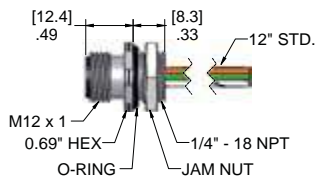
Front Mount Receptacles | NPT, PG, Metric Threads | 12" Leads | 300V, 4A | 60V, 2A | IP67 Rating



# of Poles	Male Faceview	Rating	Wire AWG	Threads	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	300V 4A	22 AWG	1/4"-18NPT	MDE45-4MR-4-E45	MDE45-4FR-4-E45
				1/2"-14NPT	MDE45-4MR-2-E45	MDE45-4FR-2-E45
				PG9	MDE45-4MR-PG9-E45	MDE45-4FR-PG9-E45
				Metric	MDE45-4MR-M20-E45	MDE45-4FR-M20-E45
8 A-Coded	 M12 x 1	60V 2A	24 AWG	1/4"-18NPT	MDC-8MR-4-E45	MDC-8FR-4-E45
				1/2"-14NPT	MDC-8MR-2-E45	MDC-8FR-2-E45
				PG9	MDC-8MR-PG9-E45	MDC-8FR-PG9-E45
				Metric	MDC-8MR-M20-E45	MDC-8FR-M20-E45

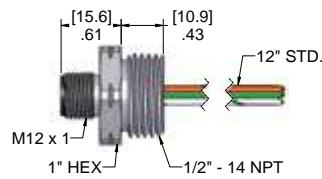
Etherplug receptacles with 12" leads or shorter come with discrete wires.
For 1/2" receptacles with lengths of 15" or longer O-ring and lock nut are included.

1/4"-18NPT Threads



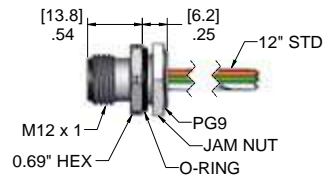
Male Receptacles

1/2"-14NPT Threads



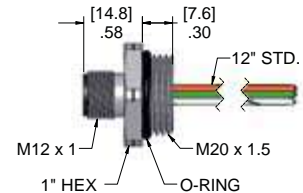
Male Receptacles

PG9 Threads

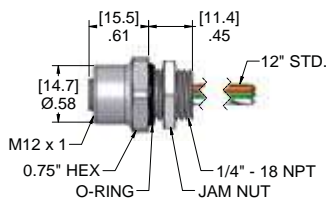


Male Receptacles

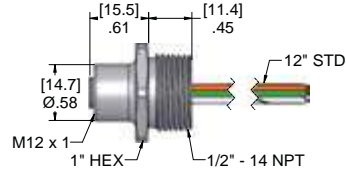
M20 Threads



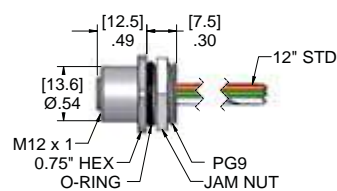
Male Receptacles



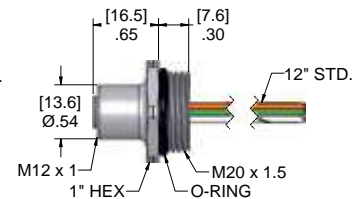
Female Receptacles



Female Receptacles



Female Receptacles



Female Receptacles

Specifications:

Shell:
1/4" NPT: Nickel Plated Brass
1/2" NPT: Clear Anodized Aluminum
PG 9: Nickel Plated Brass
M20: Clear Anodized Aluminum
Insulator: Polyamide
Wires: 24 AWG 60V, 2A

Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Lock Nut: Zinc Plated Brass
Jam Nut: Nickel Plated Brass
Temperature: -40°C to +80°C (-40°F to +176°F)



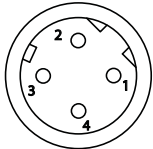
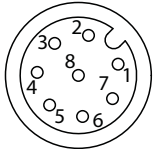
Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles, 24AWG



Front Mount Receptacles | NPT, PG, Metric Threads | CAT5e Cable | 300V, 4A | 60V, 2A | IP67 Rating



# of Poles	Male Faceview	Rating	Wire AWG	Threads	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	300V 4A	2 Pair 22 AWG	1/4"-18NPT	MDE45-4MR-4-**-	MDE45-4FR-4-**-
				1/2"-14NPT	MDE45-4MR-2-**-	MDE45-4FR-2-**-
				PG9	MDE45-4MR-PG9-**-	MDE45-4FR-PG9-**-
				M20	MDE45-4MR-M20-**-	MDE45-4FR-M20-**-
8 A-Coded	 M12 x 1	60V 2A	4 Pair 24 AWG	1/4"-18NPT	MDE45-8MR-4-**-	MDE45-8FR-4-**-
				1/2"-14NPT	MDE45-8MR-2-**-	MDE45-8FR-2-**-
				PG9	MDE45-8MR-PG9-**-	MDE45-8FR-PG9-**-
				M20	MDE45-8MR-M20-**-	MDE45-8FR-M20-**-

** Lengths in meters.

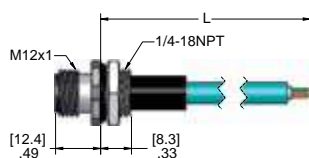
For 1/2" receptacles with lengths of 15" or longer O-ring and lock nut are included.

Etherplug receptacles with 12" leads or shorter come with discrete wires.

Ethernet Series

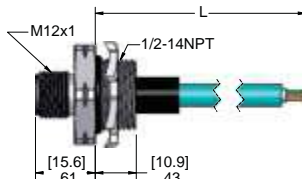
L

1/4"-18 NPT



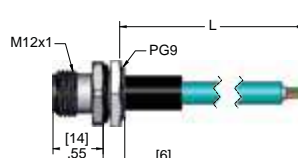
Male Receptacles

1/2"-14 NPT



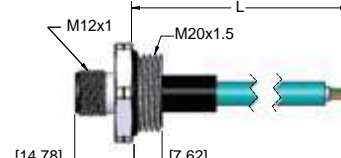
Male Receptacles

PG9 Threads

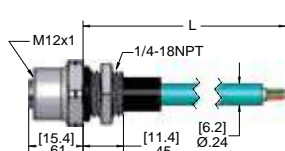


Male Receptacles

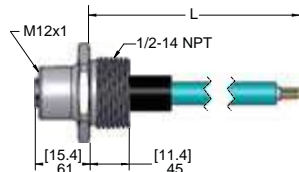
M20 Threads



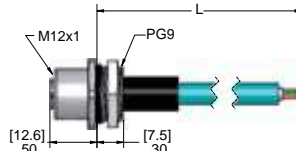
Male Receptacles



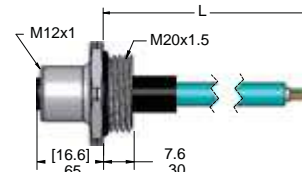
Female Receptacles



Female Receptacles



Female Receptacles



Female Receptacles

Specifications:

Shell: 1/4" NPT: Nickel Plated Brass
1/2" NPT: Clear Anodized Aluminum
PG 9: Nickel Plated Brass
M20: Clear Anodized Aluminum
Insulator: Polyamide
Cable: See PVC Cable specifications on page L-22~23

Wires: 24 AWG 60V, 2A
Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Lock Nut: Zinc Plated Brass
Jam Nut: Nickel Plated Brass
Temperature: -40°C to +80°C (-40°F to +176°F)



Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles, 24AWG



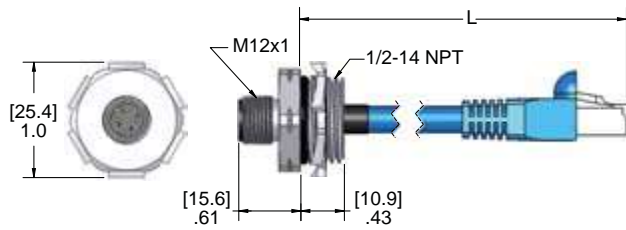
Front Mount M12 to RJ45 with CAT5e Cable | 1/2"-14NPT | 42 VDC, 1.5 amps | IP20 Rating

# of Poles	Male Faceview	Rating	Wire AWG	Wiring M12 to RJ45	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	42 VDC 1.5A	24 AWG	1 to 1 2 to 3 3 to 2 4 to 6	MDE45-4MR-RJ45-2-**	MDE45-4FR-RJ45-2-**
8 A-Coded	 M12 x 1	42 VDC 1.5A	24 AWG	1 to 5 2 to 7 3 to 8 4 to 2 5 to 3 6 to 1 7 to 4 8 to 6	MDE45-8MR-RJ45-2-**	MDE45-8FR-RJ45-2-**

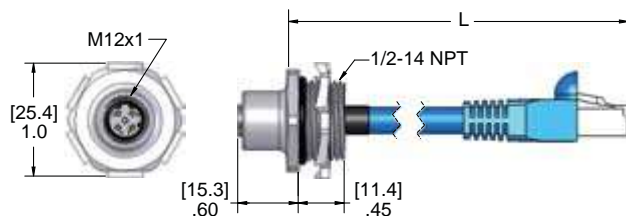
** Lengths in meters.

For Cross-over color code, add a "-CC" suffix (e.g. MDE45-8MR-RJ45-BM-2M-CC).

Shielded versions are available. Please consult the factory.



Male Receptacles



Female Receptacles

Specifications:

Shell: Clear Anodized Aluminum
Insulator: Polyamide
Cable: See specifications on page L-22~23
Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Lock Nut: Zinc Plated Brass
Temperature: -40°C to +80°C (-40°F to +176°F)

Mencom Standard Cable Color Code

MDE45		Color		RJ45
1		White/Orange		1
3		Orange		2
2		White/Green		3
4		Green		6

Mencom Standard Cable Color Code

M12		Color		RJ45
6		White/Orange		1
4		Orange		2
1		White/Blue		5
7		Blue		4
5		White/Green		3
8		Green		6
2		White/Brown		7
3		Brown		8



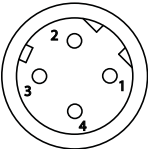
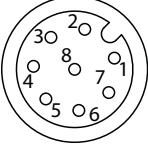
Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles, 24AWG



Back Mount Receptacles | 12" Leads & CAT5e Cable | 60 Volt, 2 amps | IP67 Rating



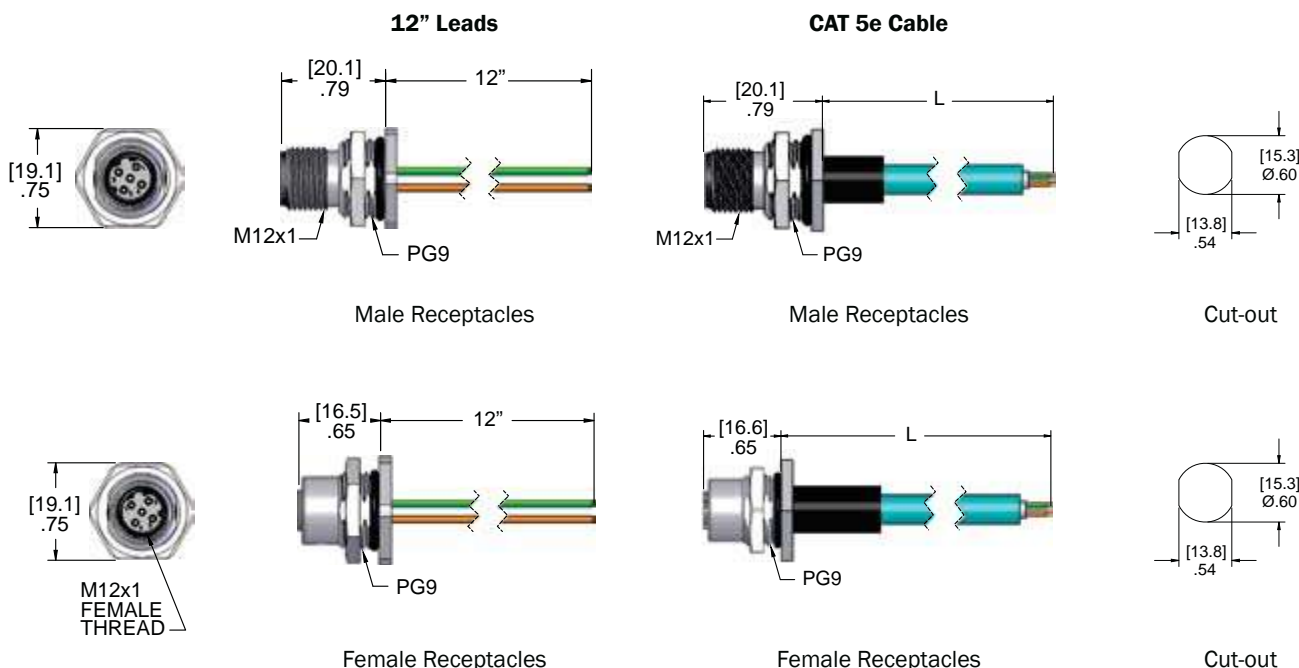
# of Poles	Male Faceview	Wire AWG Rating	12" Leads		CAT5e Cable	
			Male Receptacles	Female Receptacles	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	24 AWG 60V 2A	MDE45-4MR-BM-E45	MDE45-4FR-BM-E45	MDE45-4MR-BM-**	MDE45-4FR-BM-**
8 A-Coded	 M12 x 1	24 AWG 60V 2A	MDC-8MR-BM-E45	MDC-8FR-BM-E45	MDE45-8MR-BM-**	MDE45-8FR-BM-**

** Lengths in meters.

Etherplug receptacles with 12" leads or shorter come with discrete wires.
Shielded versions are available. Please consult the factory.

Ethernet Series

L



Specifications:

Shell: Nickel Plated Brass
 Insulator: Polyamide
 Cable: See PVC Cable specifications on page L-22~23
 Wires: 24 AWG 60V, 2A

Contacts: Copper Alloy with Gold Plating
 O-Ring: NBR
 Jam Nut: Nickel Plated Brass
 Temperature: -40°C to +80°C (-40°F to +176°F)

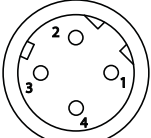
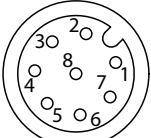


Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles, 24AWG



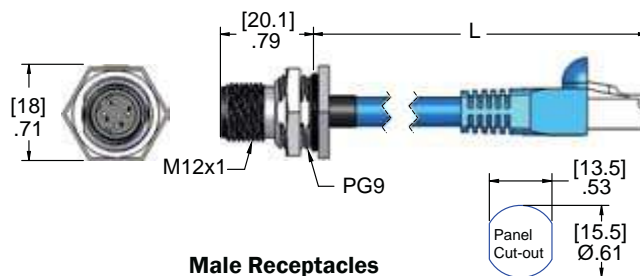
Back Mount Receptacles | CAT5e Cable | 60 Volt, 2 amps | IP20 Rating

# of Poles	Male Faceview	Rating	Wire AWG	Wiring M12 to RJ45	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	42 VDC 1.5A	24 AWG	1 to 1 2 to 3 3 to 2 4 to 6	MDE45-4MR-RJ45-BM-**	MDE45-4FR-RJ45-BM-**
8 A-Coded	 M12 x 1	42 VDC 1.5A	24 AWG	1 to 5 2 to 7 3 to 8 4 to 2 5 to 3 6 to 1 7 to 4 8 to 6	MDE45-8MR-RJ45-BM-**	MDE45-8FR-RJ45-BM-**

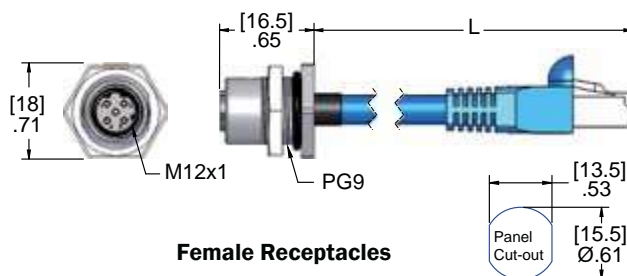
** Lengths in meters.

For Cross-over color code, add a "-CC" suffix (e.g. MDE45-8MR-RJ45-BM-2M-CC).

Shielded versions are available. Please consult the factory.



Male Receptacles



Female Receptacles

Mencom Standard Cable Color Code

MDE45		Color		RJ45
1		White/Orange		1
3		Orange		2
2		White/Green		3
4		Green		6

Mencom Standard Cable Color Code

M12		Color		RJ45
6		White/Orange		1
4		Orange		2
1		White/Blue		5
7		Blue		4
5		White/Green		3
8		Green		6
2		White/Brown		7
3		Brown		8

Specifications:

Shell: Nickel Plated Brass
Insulator: Polyamide
Cable: See specifications on page L-22
Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Jam Nut: Nickel Plated Brass
Temperature: -40°C to +80°C (-40°F to +176°F)



Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Receptacles

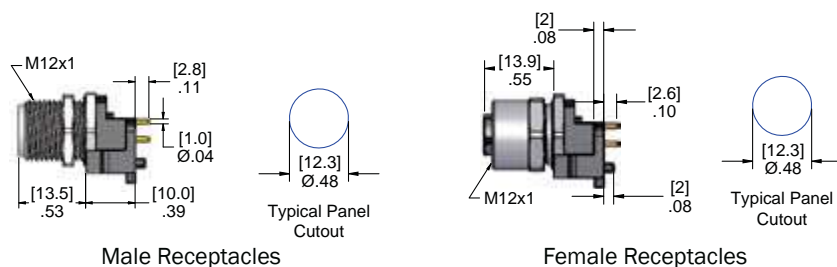


PCB Mount & PCB Back Mount Receptacles | 250V, 4A | 30V, 2A | IP67 Rating

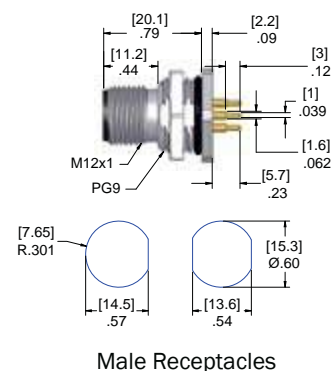


# of Poles	Male Faceview	Rating	Style	Male Receptacles	Female Receptacles
4 D-Coded	 M12 x 1	250V 4A	Front Mount Straight	MDE45-4MR-PCB	MDE45-4FR-PCB
			Front Mount Right Angle	MDE45-4MR-PCB-R	MDE45-4FR-PCB-R
			Back Mount	MDE45-4MR-BM-PCB	MDE45-4FR-BM-PCB
8 A-Coded	 M12 x 1	30V 2A	Front Mount Straight	MDE45-8MR-PCB	MDE45-8FR-PCB
			Front Mount Right Angle	MDE45-8MR-PCB-R	MDE45-8FR-PCB-R
			Back Mount	MDE45-8MR-BM-PCB	MDE45-8FR-BM-PCB

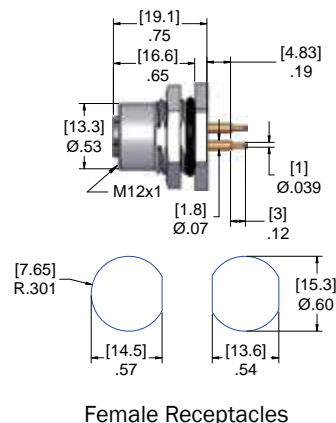
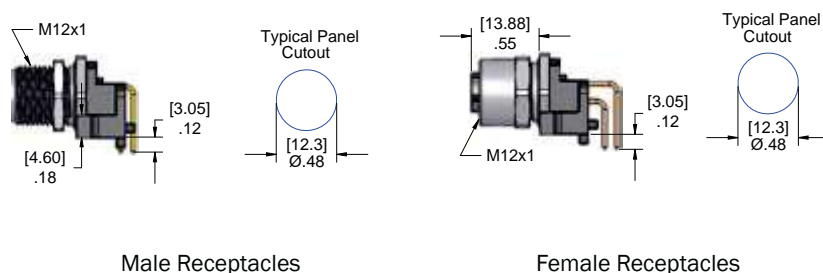
PCB Receptacles



PCB Back Mount Receptacles



PCB Receptacles Right Angle



Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Gold Plating
 Shell: Nickel Plated Brass
 O-Ring: NBR
 Jam Nut: Nickel Plated Brass
 Temperature: -40°C to 105°C (-40°F to +221°F)



Ethernet (M12) Series Etherplug Receptacles

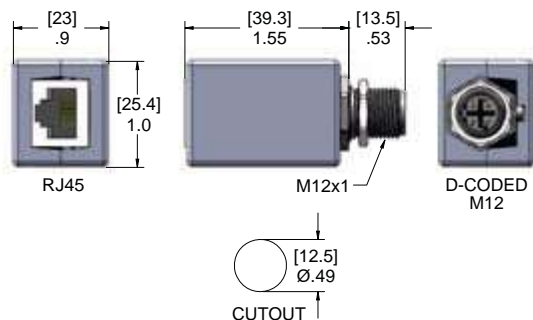
4 & 8 Conductor Ethernet Series Receptacles



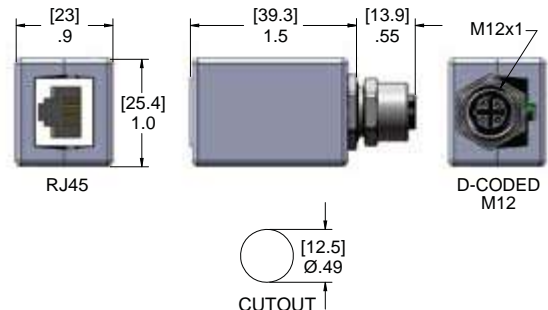
Panel Mount Receptacles | RJ45 to M12 D-Coded | IP67 Rating

4 Pole D-Coded MDE45 to Female RJ45						
# of Poles	MDE45 Faceview	MDE45 Color Code	Wiring MDE45 to RJ45	RJ45 Color Code	Part Number	RJ45 Faceview
4 Male D-Coded	 M12 x 1	1. White/Orange (+TX) 2. White/Green (+RX) 3. Orange (-TX) 4. Green (-RX)	1 to 1 2 to 3 3 to 2 4 to 6	1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+ RX) 4. N/C 5. N/C 6. Green (-RX) 7. N/C 8. N/C	MDE45RJ-4MFR-BM	 87654321 RJ45
4 Female D-Coded	 M12 x 1	1. White/Orange (+TX) 2. White/Green (+RX) 3. Orange (-TX) 4. Green (-RX)	1 to 1 2 to 3 3 to 2 4 to 6	1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+ RX) 4. N/C 5. N/C 6. Green (-RX) 7. N/C 8. N/C	MDE45RJ-4FFR-BM	 87654321 RJ45
8 Pole A-Coded MDE45 to Female RJ45						
8 Male A-Coded	 M12 x 1	1. White/Blue 2. White/Brown 3. Brown 4. Orange (-TX) 5. White/Green (+RX) 6. White/Orange (+TX) 7. Blue 8. Green (-RX)	1 to 5 2 to 7 3 to 8 4 to 2 5 to 3 6 to 1 7 to 4 8 to 6	1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+ RX) 4. Blue 5. White/Blue 6. Green (-RX) 7. White/Brown 8. Brown	MDE45RJ-8MFR-BM	 87654321 RJ45
8 Female A-Coded	 M12 x 1	1. White/Blue 2. White/Brown 3. Brown 4. Orange (-TX) 5. White/Green (+RX) 6. White/Orange (+TX) 7. Blue 8. Green (-RX)	1 to 5 2 to 7 3 to 8 4 to 2 5 to 3 6 to 1 7 to 4 8 to 6	1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+ RX) 4. Blue 5. White/Blue 6. Green (-RX) 7. White/Brown 8. Brown	MDE45RJ-8FFR-BM	 87654321 RJ45

Male M12 to Female RJ45



Female M12 to Female RJ45



Specifications:

Housing: PBT
Insulator: Polyamide
Contacts: Copper Alloy with Gold Plating
RJ45 Connector: CAT5e

O-Ring: NBR
Jam Nut: Nickel Plated Brass
Temperature: -40°C to +80°C (-40°F to +176°F)



Ethernet (M12) Series Etherplug Receptacles

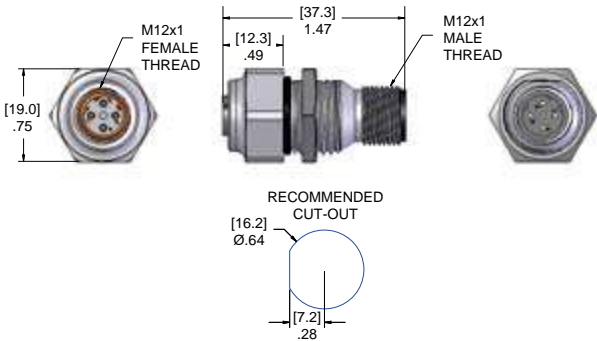
4 & 8 Conductor Ethernet Series Receptacles



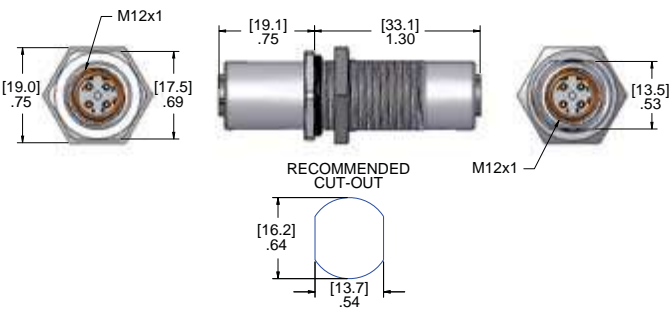
Through Panel Mount Receptacles | IP67 Rating

# of Poles	Rating	Wiring	Part Number	
			Male to Female	Female to Female
4 D-Coded	300V 4A	1 to 1 2 to 2 3 to 3 4 to 4	MDE45-4MFR-TM	MDE45-4FFR-TM
8 A-Coded	60V 2A	1 to 1 2 to 2 3 to 3 4 to 4 5 to 5 6 to 6 7 to 7 8 to 8	MDC-8MFR-TM	MDC-8FFR-TM

Male to Female



Female to Female



Specifications:

Shell: Nickel Plated Brass
Insulator: Polyamide
Contacts: Copper Alloy with Gold Plating

O-Ring: NBR
Jam Nut: Nickel Plated Brass
Temperature: -40°C to 105°C (-40°F to +221°F)

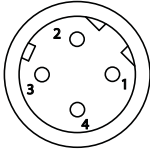

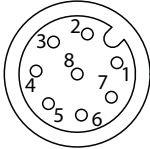


Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Solder Cup Inserts



Solder Cup Inserts | Male | 300V Max, 4A Max

# of Poles	Male Faceview	Rating	Wire AWG	Part Number	Housing Style
4	 M12 x 1	300V Max 4A Max	Up to 18 AWG	MDE45-4MR-IN-SC	
8	 M12 x 1	60V Max 2A Max	Up to 22 AWG	MDE45-8MR-IN-SC	

Specifications:

Insert: Black Polyamide
Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Temperature: -40°C to 105°C (-40°F to +221°F)

Ethernet Series

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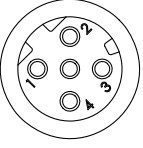
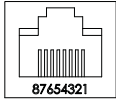
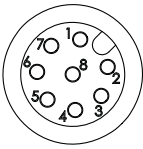
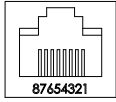
Ethernet (M12) Series Etherplug Receptacles

4 & 8 Conductor Ethernet Series Panel Mount Adapter



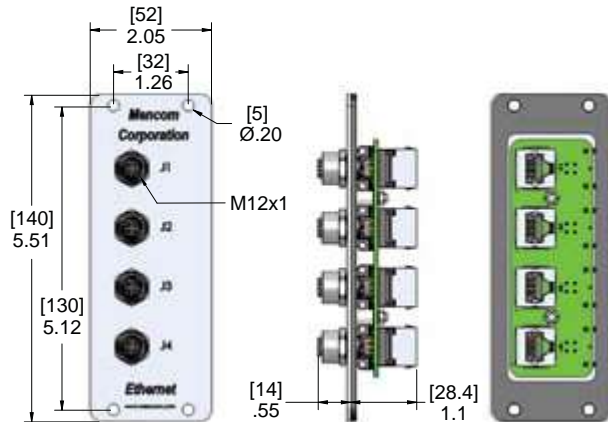
Size 24 | 4 Port | MDE45 to RJ45



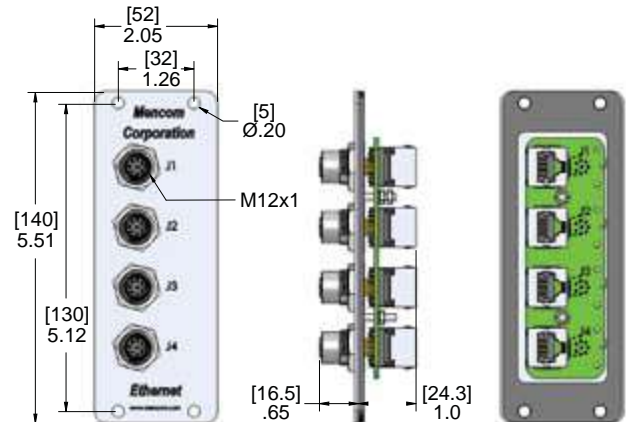
M12 4 Pole to RJ45 Panel Mount Adapters				
# of Poles	Female Faceview	Wiring MDE45	Part Number	RJ45 Faceview
4 D-Coded	 <p>1 = White/Orange (+ TX) 2 = White/Green (+ RX) 3 = Orange (- TX) 4 = Green (- RX)</p> <p>M12 x 1</p>	<p>1 to 1 2 to 3 3 to 2 4 to 6</p>	D24-4MDE45-4FR-RJ45	 <p>87654321</p> <p>1 = White/Orange (+ TX) 2 = Orange (- TX) 3 = White/Green (+ RX) 4 = N/C 5 = N/C 6 = Green (- RX) 7 = N/C 8 = N/C</p>
M12 8 Pole to RJ45 Panel Mount Adapters				
8 A-Coded	 <p>1 = White/Blue 2 = White/Brown 3 = Brown 4 = Orange (-TX) 5 = White/Green (+RX) 6 = White/Orange (+TX) 7 = Blue 8 = Green (-RX)</p> <p>M12 x 1</p>	<p>1 to 5 2 to 7 3 to 8 4 to 2 5 to 3 6 to 1 7 to 4 8 to 6</p>	D24-4MDE45-8FR-RJ45	 <p>87654321</p> <p>1 = WHT/ORG (+TX) 2 = ORANGE (-TX) 3 = WHT/GRN (+RX) 4 = BLUE 5 = WHT/BLU 6 = GREEN (-RX) 7 = WHT/BRN 8 = BROWN</p>

Ethernet Series

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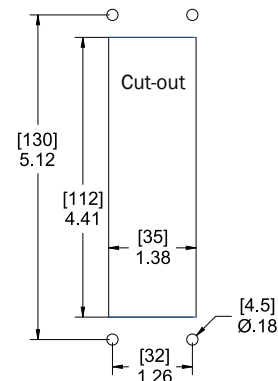
D24-4MDE45-4FR-RJ45



D24-4MDE45-8FR-RJ45

Specifications:

Plate:	Stainless Steel
M12 Coupling:	Nickel Plated Brass
M12 Insert:	Polyamide
Contacts:	Copper Alloy with Gold Plating
O-Rings:	NBR
Gasket:	PVC NBR
RJ45 Connector:	CAT5e
Mounting Screws:	#8 or M4 Screws
Shielding:	Shield connected between M12 Housing and RJ45 Connector
Temperature:	-40°C to +80°C (-40°F to +176°F)





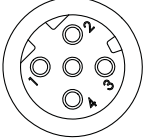
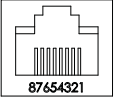
Ethernet (M12) Series Etherplug Receptacles

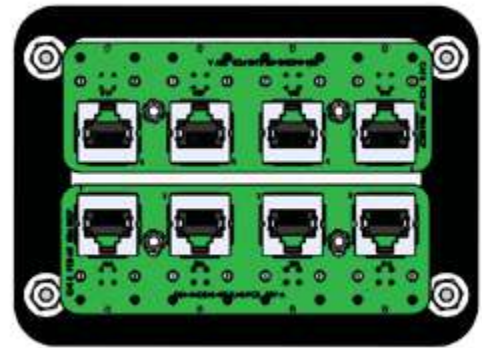
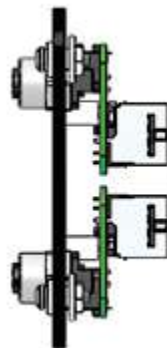
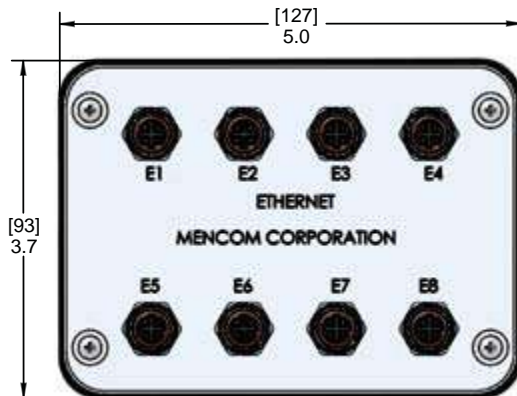
4 Conductor Ethernet Series Panel Mount Adapter



Size 32 | 8 Port | MDE45 to RJ45



Female Faceview	# of Poles	Wiring MDE45	Part Number	RJ45 Faceview
 M12x1 1 = White/Orange (+ TX) 2 = White/Green (+ RX) 3 = Orange (- TX) 4 = Green (- RX)	4 D-Coded	1 to 1 2 to 3 3 to 2 4 to 6	D32-8MDE45-4FR-RJ45	 RJ45 1 = White/Orange (+ TX) 2 = Orange (- TX) 3 = White/Green (+ RX) 4 = N/C 5 = N/C 6 = Green (- RX) 7 = N/C 8 = N/C

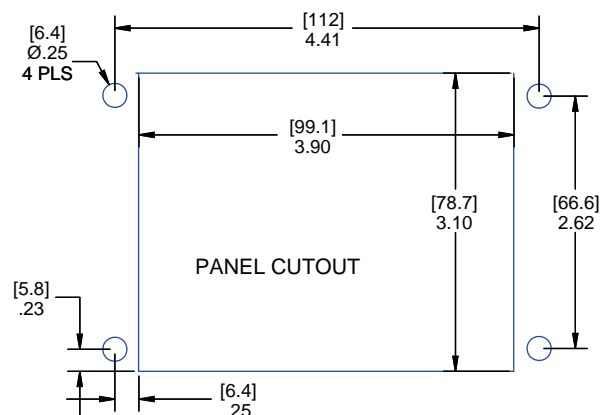


Ethernet Series

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Specifications:

Plate:	Stainless Steel
M12 Coupling:	Nickel Plated Brass
M12 Insert:	Polyamide
Contacts:	Copper Alloy with Gold Plating
O-Rings:	NBR
Gasket:	PVC NBR
RJ45 Connector:	Cat 5
Mounting Screws:	#8 or M4 Screws
Shielding:	Shield connected between MDE45 Housing and RJ45 Connector
Temperature:	-40°C to +80°C (-40°F to +176°F)





Ethernet Series Etherlink V3

8 Conductor Ethernet Series V3 Cordsets & Field Wireable Plugs, 24AWG



Field Wireable Plugs | Single & Double Ended Male Cordsets | UL Type 4, 6P | IP65 Rating



Patented by Mencom Corporation

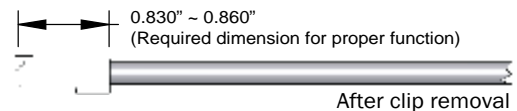
It is recommended that quality Mencom cables are used with the field wireable connectors to assure an accurate fit. However, if using another brand, the dimensions of the connector must meet the dimensions shown below.

Field Wireable Plugs	Part Number	Housing Specifications	Front View
	E45V3-8MP-FW	Coupling Nut : Black Anodized Aluminum Body : Black Polyamide O-Ring : NBR Grommets : NBR & TPE Tightening Torque: 4.0 N-m Max. Panel Thickness: 5.5 mm Temperature : -20°C to +80°C	

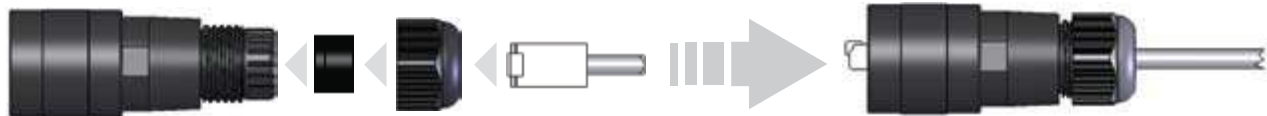
Assembly Instructions



STEP 1)
Remove clip by cutting or by bending it back and forth until it breaks.



STEP 2)
With connector unassembled, push cable through dome nut, split apart the grommet and wrap it around the cable, then push the cable through the connector body.



STEP 3)
Push grommet back into the "fingers" of the shell. Rotate cable 90 degrees and pull it back into the connector until it stops. With slight tension on cable, tighten dome nut (3.75Nm recommended).

E45V3 to Cable				
# of Poles	Front View	Part Number		Housing Style
		PVC Male	PUR Male	
8		E45V3-8MP-**	E45V3P-8MP-**	
E45V3 to RJ45				
8		E45V3-8MP-RJ45-**	E45V3P-8MP-RJ45-**	
E45V3 Male to Male Extension Cables				
8		E45V3-8MMP-**	E45V3P-8MMP-**	

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.



Ethernet Series Etherlink V3

8 Conductor Ethernet Series Receptacles, 24AWG

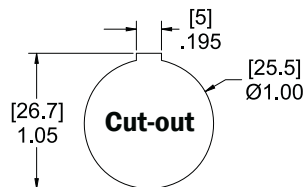


Female Front Mount Receptacles | 42 VDC, 1.5 amps | UL Type 4, 4X, 6P | IP65 Rating



Etherlink V3 Female Receptacle to Male Plug with CAT5e Cable						
# of Poles	Front View	Rating	Wire AWG	Cap (E45V3-CAP)	Part Number	Housing Style
8		42V 1.5A	24	Not Included	E45V3-8FMR-*-M25	
				Included	E45V3-8FMR-*-M25-CP	
Etherlink V3 Female Receptacle to 110 Punchdown Block						
8		N/A	20-26	Not Included	E45V3-8FR-110-M25	
				Included	E45V3-8FR-110-M25-CP	
Etherlink V3 Female Receptacle to Female Receptacles						
8		N/A	N/A	Not Included	E45V3-8FFR-M25	
				Included	E45V3-8FFR-M25-CP	
Etherlink V3 Field Wireable to Female Receptacle Solder to Board						
8		N/A	N/A	Not Included	E45V3-8FR-FW-M25	
				Included	E45V3-8FR-FW-M25-CP	

* Length in feet. Standard cable lengths are 1, 3, 7, 10 & 15 feet. Consult factory for other lengths.



Specifications:

Insulator:	Polyamide
Cable:	CAT5e with PVC Jacket
Contacts:	Copper Alloy with Gold Plating
O-Ring:	NBR
Tightening Torque:	5.0 N-m
Max. Panel Thickness:	5.5 mm
Temperature:	-20°C to +80°C (-4°F to +176°F)

Etherlink V3 Accessories	
Cap	Part Number
	E45V3-CAP
Protective Lock Nut	
	Protective lock nut provided with each receptacle.



Ethernet Series Conduit Adapters

4 & 8 Conductor Ethernet Series Conduit Adapters



Conduit Adapters | 1 & 2 Port | M12 to RJ45 | IP67 Rating

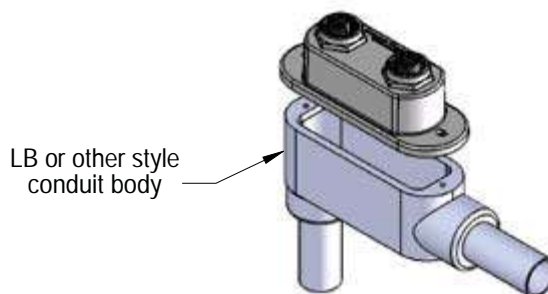
Ethernet Series

L

# of Poles	Female Faceview	# of Ports	Part Number	Top View
4 D-Coded	 M12 x 1 1 = White/Orange (+ TX) 2 = White/Green (+ RX) 3 = Orange (- TX) 4 = Green (- RX)	1 Port	MDE45-1-4FR-RJ45-CA	
	 87654321 1 = White/Orange (+ TX) 2 = Orange (- TX) 3 = White/Green (+ RX) 4 = N/C 5 = N/C 6 = Green (- RX) 7 = N/C 8 = N/C	2 Port	MDE45-2-4FR-RJ45-CA	
8 A-Coded	 M12 x 1 1 = White/Blue 2 = White/Brown 3 = Brown 4 = Orange (-TX) 5 = White/Green (+RX) 6 = White/Orange (+TX) 7 = Blue 8 = Green (-RX)	1 Port	MDE45-1-8FR-RJ45-CA	
	 87654321 1 = White/Orange (+TX) 2 = Orange (-TX) 3 = White/Green (+RX) 4 = Blue 5 = White/Blue 6 = Green (-RX) 7 = White/Brown 8 = Brown	2 Port	MDE45-2-8FR-RJ45-CA	

Specifications:

Housing:	Glass Filled PBT
Recp. Shell:	Nickel Plated Brass
Insert:	Polyamide
Contacts:	Copper Alloy with Gold Plating
Gasket:	NBR
Temperature:	-40°C to +70°C (-40°F to +158°F)



Remove existing Conduit Body cover and replace with Mencom Conduit Adapter.

Works with all standard 3/4" NPT conduit bodies, including Form 8 and Mark 9 adapters. (screws are included with adapter)



Ethernet Series Conduit Adapters

4 & 8 Conductor Ethernet Series Conduit Adapters



Conduit Adapters | 1 & 2 Port | M12 to 110 Punchdown | IP67 Rating

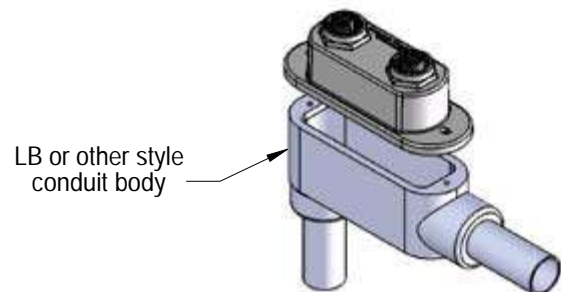
# of Poles	Female Faceview	# of Ports	Part Number	Top View
4 D-Coded	 M12 x 1 1 = White/Orange (+ TX) 2 = White/Green (+ RX) 3 = Orange (- TX) 4 = Green (- RX)	1 Port	MDE45-1-4FR-110-CA	
		2 Port	MDE45-2-4FR-110-CA	
8 A-Coded	 M12 x 1 1 = White/Blue 2 = White/Brown 3 = Brown 4 = Orange (-TX) 5 = White/Green (+RX) 6 = White/Orange (+TX) 7 = Blue 8 = Green (-RX)	1 Port	MDE45-1-8FR-110-CA	
		2 Port	MDE45-2-8FR-110-CA	

Ethernet Series

L

Specifications:

Housing: Glass Filled PBT
Recp. Shell: Nickel Plated Brass
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating
Gasket: NBR
Temperature: -40°C to +70°C (-40°F to +158°F)



Remove existing Conduit Body cover and replace with Mencom Conduit Adapter.

Works with all standard 3/4" NPT conduit bodies, including Form 8 and Mark 9 adapters. (screws are included with adapter)



Ethernet Series RJ45 Kits

Heavy Duty Ethernet Connection System

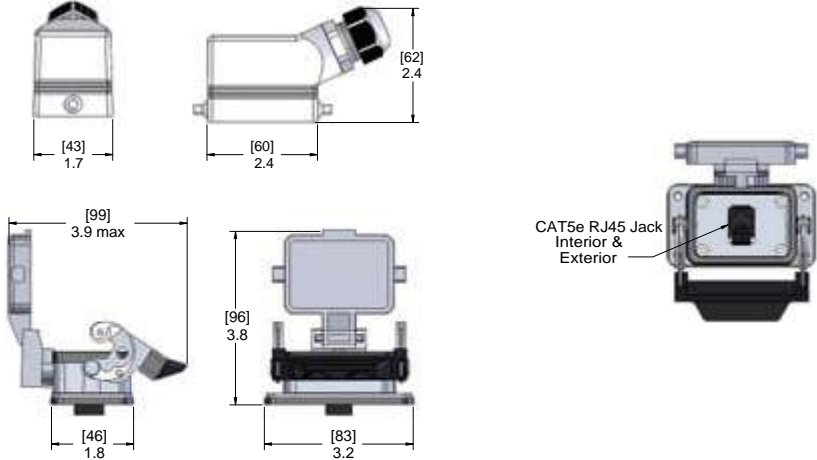
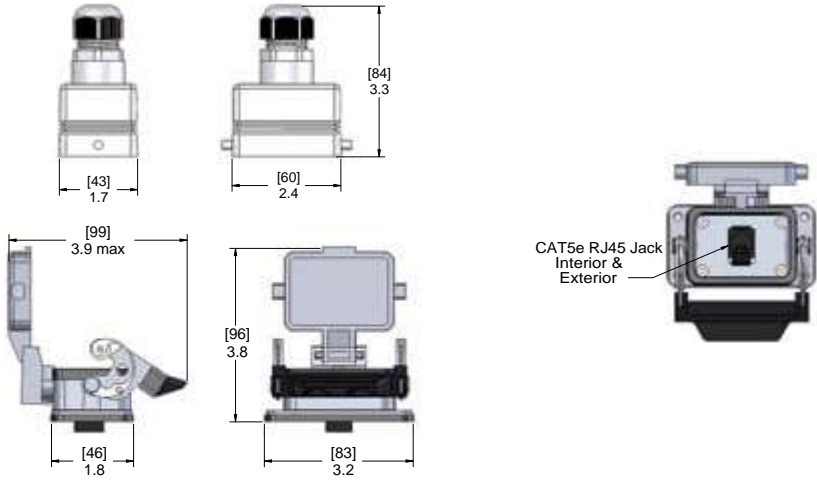


RJ45 Kits | Top & Side Entry | IP66 Protection Rating



Ethernet Series

L

Housing Style	Entry	Part Number
	Side Entry	RJ45-CKIT
	Top Entry	RJ45-CVKIT

These units are designed to be used with Mencom RJ45 Patch Cords:

Part Numbers: RJ45-03 3 foot patch cord
RJ45-07 7 foot patch cord
RJ45-10 10 foot patch cord
RJ45-15 15 foot patch cord

Other lengths are available, please consult the factory.



Ethernet Series Accessories

Ethernet Series RJ45 Field Wireable Connector Accessories & Tools



RJ45 Plugs | Strain Relief | Boots | Crimp Tool



Style	Max Cable O.D.	Part Number	Description	Conductors O.D Range
	6.1 mm (0.24")	RJ45-EZ5-FW	24 & 26 AWG Cat 5/5e male RJ45 connector	0.94 mm ~ 1.04 mm (0.037" ~ 0.041")
	6.6 mm (0.26")	RJ45S-EZ5-FW	Shielded Cat 5/5e/6 male RJ45 connector	0.94 mm ~ 1.04 mm (0.037" ~ 0.041")
	10.5mm (0.41")	RJ45-PN-FW	Shielded CAT 6A Straight Plug Field Wireable Ethernet/Profinet	Stranded: 0.46 mm ~ 0.76 mm (0.018" ~ 0.029") Solid: 0.40mm ~ 0.64mm (0.015" ~ 0.025")
		RJ45-PN-FW-R	Shielded CAT 6A Right Angle Plug Field Wireable Ethernet/Profinet	
	6.6 mm (0.26")	RJ45-EZ5-SR-CL	Clear Cat 5e cable strain relief for RJ45-EZ and RJ45S-EZ	N/A
	5.5 mm (0.22")	RJ45-BT-5.5-BK	RJ45 Black Boot	N/A
	6 mm (0.24")	RJ45-BT-6.0-BK		
	6.5 mm (0.26")	RJ45-BT-6.5-BK		
	7 mm (0.28")	RJ45-BT-7.0-BK		
	8 mm (0.31")	RJ45-BT-8.0-BK		
	N/A	RJ45-EZ-CT	Crimp Tool for RJ45-EZ & RJ45S-EZ connectors	N/A

Ethernet Series

L

RJ45 Crimp Instructions

1. Strip off approximately two inches of outer cable jacket.
2. Untwist and straighten wires. Place in the desired order for wiring.
(see wiring chart)
3. Trim wire ends so all conductors are the same length.
4. Insert wires into the connector and pull connector down over the cable jacket. Cable jacket should seat snugly in rear of connector.
5. Push the connector into the crimp tool, making sure it is fully seated in the crimp cavity.
6. Crimp the connector and break off any remaining loose wires.



Typical T568A / T568B Wiring Chart

Wire	T568A	T568B
1	White/Green	White/Orange
2	Green	Orange
3	White/Orange	White/Green
4	Blue	Blue
5	White/Blue	White/Blue
6	Orange	Green
7	White/Brown	White/Brown
8	Brown	Brown



Notes:



Foundation Fieldbus

H1/High Speed Ethernet

Over-Molded Cordsets | Receptacles | Field Wireables | Accessories

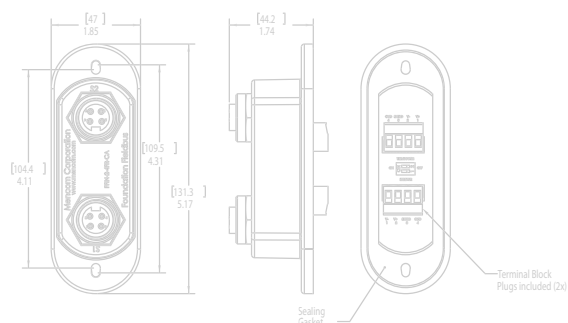
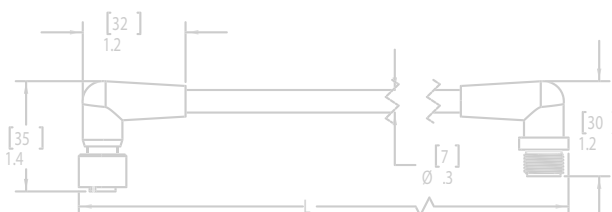
UL File #:
E149111



The Foundation Fieldbus architecture provides a communications protocol for control and instrumentation systems. Each device has its own "intelligence" and communicates via a two-way communications system. Cables are made to the architecture standards, but the connectivity is based on standard M12 and MIN connectors which utilize stainless steel coupling nuts.

H1

H1 generally connects to field devices. It provides communication and power over standard twisted-pair wiring. H1 is currently the most common implementation.



Foundation Fieldbus Series

M



Contents

Cordsets	Part Number Matrix	M-3	
	Straight	M-4	
	Double Ended	M-5	
Field Wireable Plugs		M-6	
“T” Connectors		M-7	
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	Index	M-10	
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		PG9	M-12
		M20	M-12
Conduit Adapters		M-13	



Foundation Fieldbus Series Cordsets

Foundation Fieldbus MIN/MDC Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

FF - 4 - - - SS

Cordset Type

IN = MIN Cordset
DC = MDC Cordset

R/A or Straight

Blank = Straight
R = Right Angle**

** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Connector Configuration

MPX = Male Plug - 18awg
FPX = Female Plug - 18awg
MFPX = Male / Female Extension - 18awg

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.



Foundation Fieldbus Series MIN/MDC Cordsets

4 Conductor Foundation Fieldbus MIN/MDC Cordsets, 18AWG



Straight Cordsets | 300 Volt, 10 amps | 300 Volt, 4 amps | IP67 Rating



Foundation Fieldbus Series

M

MIN (7/8" 16UN) Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	FFIN-4MPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 7/8"-16UN2
	FFDC-4MPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 7/8"-16UN2
MDC (M12) Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	FFIN-4FPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 M12 x 1
	FFDC-4FPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.



Foundation Fieldbus Series MIN/MDC Cordsets

4 Conductor Foundation Fieldbus MIN/MDC Cordsets, 18AWG

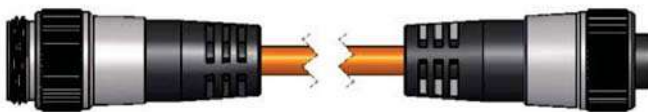


Double Ended Cordsets | 300 Volt, 10 amps | 300 Volt, 4 amps | IP67 Rating

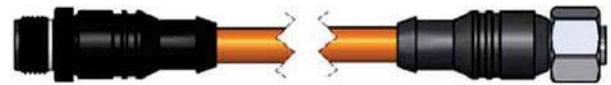


MIN (7/8" 16UN) Male to Female Extension					
Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
 7/8"-16UN2	FFIN-4MFPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 7/8"-16UN2
MDC (M12) Male to Female Extension					
 M12 x 1	FFDC-4MFPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.



MIN Male to Female Extension



MDC Male to Female Extension



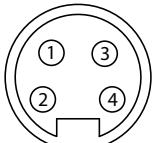
Foundation Fieldbus Series Field Wireable Plugs

4 Conductor Foundation Fieldbus

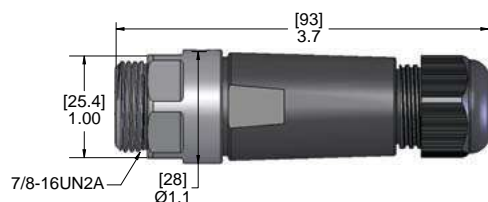


Straight Field Wireable Plugs | MIN & MDC | 600V, 15A Max | 250V, 4A Max | IP67 Rating

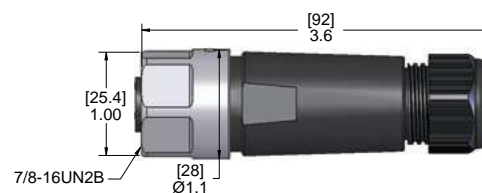


MIN (7/8" 16UN) Field Wireable Plugs						
# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
4	 7/8"-16UN2	600V 15A MAX	14-22 AWG	5-13 mm	FFIN-4MPM-FW-SS	FFIN-4FP-FW-SS
				8-17 mm	FFIN-4MPM-FWX-SS	FFIN-4FP-FWX-SS

Connection via screw terminal. Voltage and amperage ratings are cable dependent and are based on 600V, 14 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.



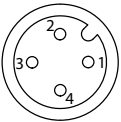
Male Straight with Male Threads



Female Straight with Female Threads

Foundation Fieldbus Series

M

MDC (M12) Field Wireable Plugs						
# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
4	 M12 x 1	250V 4A	18-24 AWG	3-6.5 mm	FFDC-4MP-FW07-SS	FFDC-4FP-FW07-SS
				4-8 mm	FFDC-4MP-FW09-SS	FFDC-4FP-FW09-SS
				8-10 mm	FFDC-4MP-FW11-SS	FFDC-4FP-FW11-SS



Male Straight with Male Threads



Female Straight with Female Threads

Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Gold Plating
 Coupling Nut: Stainless Steel
 O-Ring: NBR

Insert: PVC
 Connections: Screw Terminals
 Temperature: -40°C to +90°C (-40°F to +194°F)



Foundation Fieldbus Series MIN/MDC Connectors

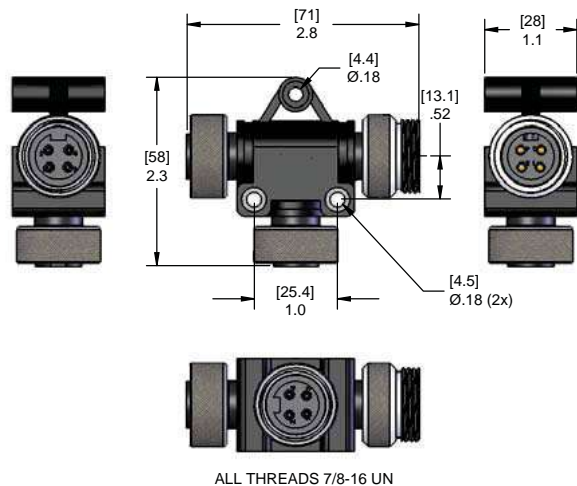
4 Conductor Foundation Fieldbus T Connectors



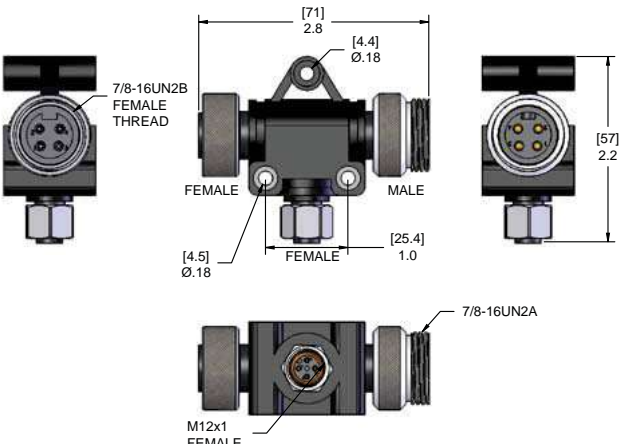
“T” Connectors | 300 Volt, 8 amps | 300 Volt, 4 amps | IP67 Rating



MIN Male to MIN Female “T” Connectors					
# of Poles	Male Faceview	Rating	Part Number	Wiring	Female Faceview
4	 7/8"-16UN2	300V 8A	FFIN-4MFF-T-SS	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4	 7/8"-16UN2
MIN Male to MIN & MDC Female “T” Connectors					
4	 7/8"-16UN2	300V 4A	FFINDC-4MFF-T-SS	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4	 M12 x 1



MIN to MIN “T” Connector



MIN to MDC “T” Connector

Specifications:

- Body: Oil Resistant Yellow PVC
- Contacts: Copper Alloy with Gold Plating
- Coupling Nut: Stainless Steel
- Temperature: -40°C to +105°C (-40°F to +221°F)



Foundation Fieldbus Series Terminating Plugs

4 Conductor Foundation Fieldbus Field Terminating Plugs

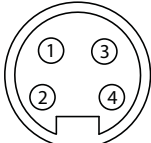
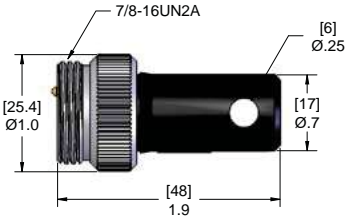
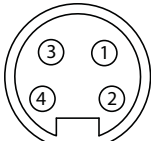
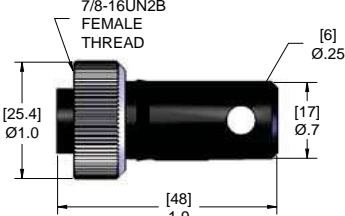
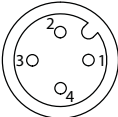
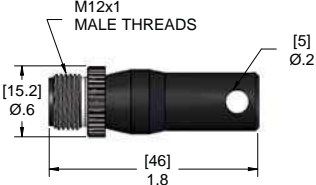
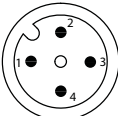
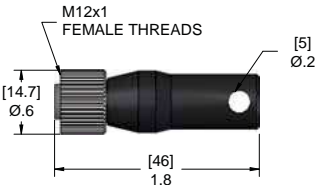


Terminating Plugs | IP67 Rating

Wiring: Pin 1 to pin 2 with 1/4 watt 100 Ohm resistor and 1μF capacitor

Foundation Fieldbus Series

M

MIN (7/8" 16UN) Terminating Plugs			
# of Poles	Faceview	Housing Style	Part Number
4	 7/8"-16UN2		FFIN-4MP-DP1-SS
	 7/8"-16UN2		FFIN-4FP-DP1-SS
MDC (M12) Terminating Plugs			
4	 M12 x 1		FFDC-4MP-DP1-SS
	 M12 x 1		FFDC-4FP-DP1-SS

Specifications:

Body: Oil Resistant PVC
Contacts: Copper Alloy with Gold Plating
Coupling Nut: Stainless Steel
Temperature: -40°C to +105°C (-40°F to +221°F)



Foundation Fieldbus Series Receptacles

Foundation Fieldbus Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

FF - 4 - - - SS

Receptacles Type

IN = MIN Receptacle (7/8"-16UN)
DC = MDC Receptacle (M12 x 1)

Connector Configuration

MR = Male Receptacle
FR = Female Receptacle

Length in Meters

Mounting Style

Blank = Front Mount 1/2"-14 NPT (Only MIN)
2 = Front Mount 1/2"-14 NPT (Only MDC)
PG9 = Front Mount PG 9 Threads
M20 = Front Mount Metric 20 Threads

Other thread types are available, please consult the factory.



Foundation Fieldbus Series Receptacles

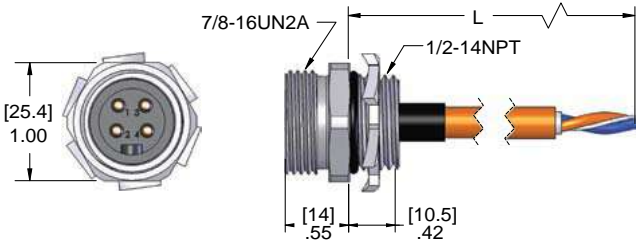
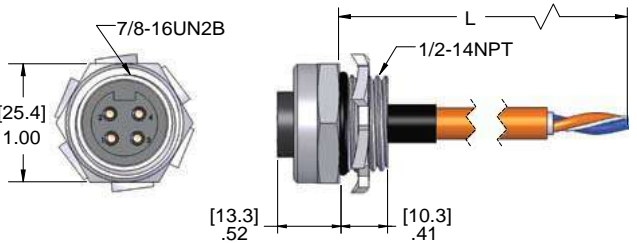
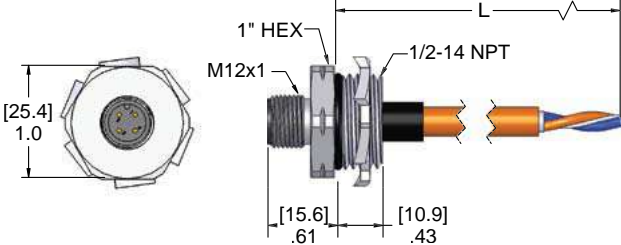
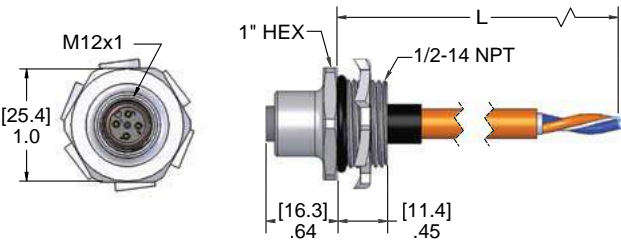
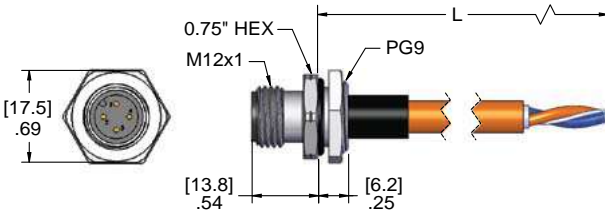
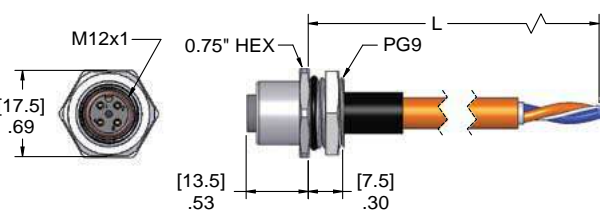
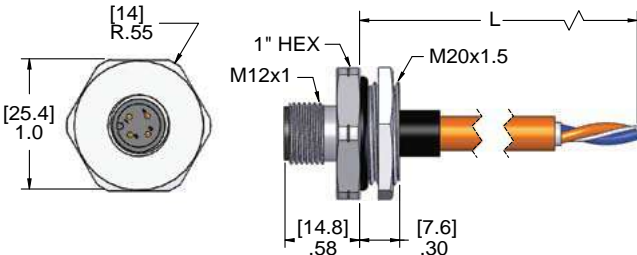
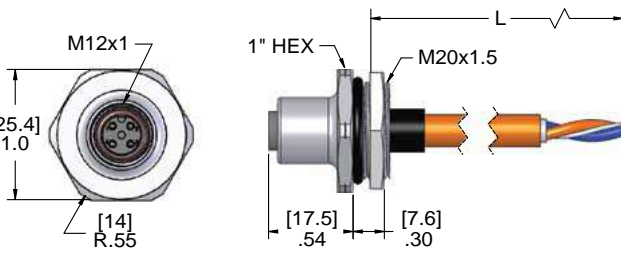
Foundation Fieldbus Receptacle Index



Front Mount

Foundation Fieldbus Series

M

MIN, Front Mount, Male, 1/2"-14NPT	Page M-11	MIN, Front Mount, Female, 1/2"-14NPT	Page M-11
			
MDC, Front Mount, Male, 1/2"-14NPT	Page M-11	MDC, Front Mount, Female, 1/2"-14NPT	Page M-11
			
MDC, Front Mount, Male, PG9	Page M-12	MDC, Front Mount, Female, PG9	Page M-12
			
MDC, Front Mount, Male, M20	Page M-12	MDC, Front Mount, Female, M20	Page M-12
			



Foundation Fieldbus Series MIN/MDC Receptacles

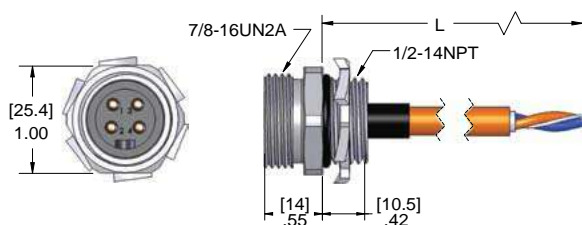
4 Conductor Foundation Fieldbus Receptacles, 18AWG



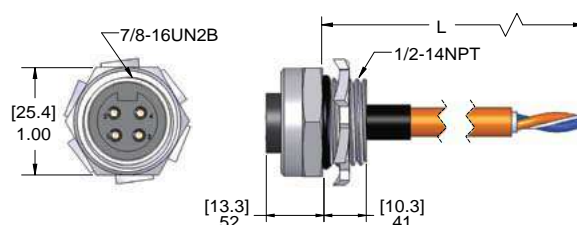
Front Mount Receptacles | 1/2"-14 NPT Threads | 300V, 10A | 300V, 4A | IP67 Rating



MIN (7/8" 16UN) Receptacles 1/2"-14 NPT						
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Receptacles	Female Receptacles
4	 7/8"-16UN2	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	300V 10A	18 AWG	FFIN-4MR-**-SS	FFIN-4FR-**-SS



Male Receptacle



Female Receptacle

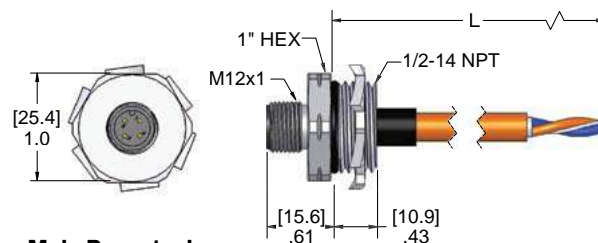
MDC (M12) Receptacles 1/2"-14 NPT						
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Receptacles	Female Receptacles
4	 M12 x 1	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	300V 4A	18 AWG	FFDC-4MR-2**-SS	FFDC-4FR-2**-SS

** Lengths in meters.

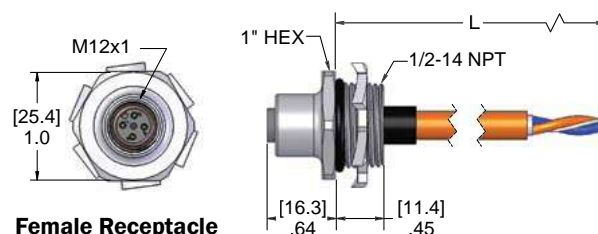
Lock Nut and O-Ring are included.

Specifications:

Shell:	Stainless Steel
Insulator:	FFIN: Oil Resistant Black PVC FFDC: Polyamide
Cable:	Orange PVC, 2x18 AWG Cable with Foil Shield
Contacts:	Copper Alloy with Gold Plating
O-Ring:	NBR
Lock Nut:	Nickel Plated Brass
Temperature:	-40°C to 105°C (-40°F to +221°F)



Male Receptacle



Female Receptacle

Foundation Fieldbus Series

M



Foundation Fieldbus Series MDC Receptacles

4 Conductor Foundation Fieldbus Receptacles, 18AWG



Front Mount Receptacles | PG9 & M20 Threads | 300 Volt, 4 amps | IP67 Rating

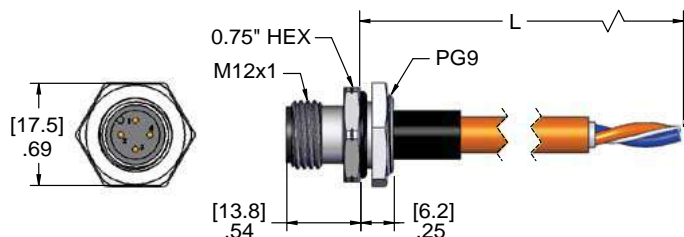


# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Threads	Male Receptacles	Female Receptacles
4		1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	300V 4A	18 AWG	PG9	FFDC-4MR-PG9-**-SS	FFDC-4FR-PG9-**-SS
					M20	FFDC-4MR-M20-**-SS	FFDC-4FR-M20-**-SS

** Lengths in meters.

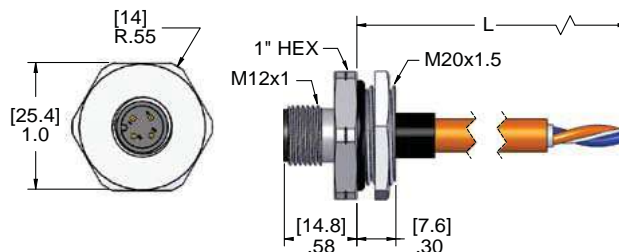
Jam Nut and O-Ring are included.

PG9 Threads

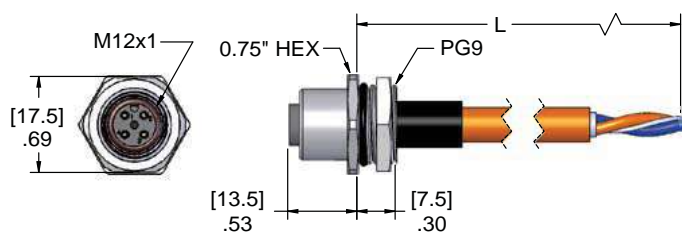


Male Receptacle

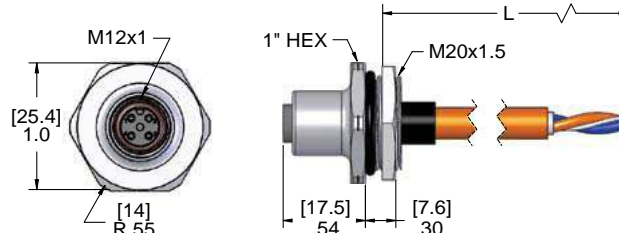
M20 Threads



Male Receptacle



Female Receptacle



Female Receptacle

Specifications:

Shell:	Stainless Steel
Insulator:	Polyamide
Cable:	Orange PVC, 2x18 AWG Cable with Foil Shield
Contacts:	Copper Alloy with Gold Plating
O-Ring:	NBR
Jam Nut:	Nickel Plated Brass
Temperature:	-40°C to 105°C (-40°F to +221°F)



Foundation Fieldbus Series Conduit Adapters

4 Conductor Foundation Fieldbus Conduit Adapters



Conduit Adapters | MIN (7/8"-16UN) | MDC (M12) | 40 Volt, 4 amps | IP67 Rating

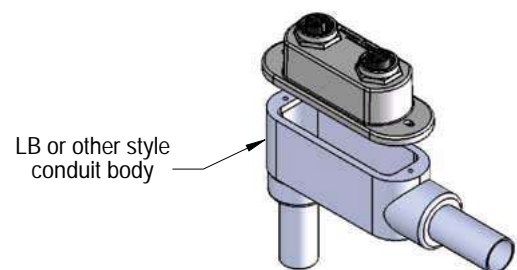
MIN (7/8"-16UN) Conduit Adapters						
# of Poles	Female Faceview	Rating	# of Ports	Part Number	Body Style	Circuit
4	 7/8"-16UN 1 = - V 2 = +V 3 = SHIELD 4 = GND	40V 4A	1 Port	FFIN-1-4FR-CA		
	 4 3 2 1 1 = - V 2 = +V 3 = SHIELD 4 = GND		2 Port	FFIN-2-4FR-CA		
MDC (M12) Conduit Adapters						
4	 M12 x 1 1 = - V 2 = +V 3 = SHIELD 4 = GND	40V 4A	1 Port	FFDC-1-4FR-CA		
	 4 3 2 1 1 = - V 2 = +V 3 = SHIELD 4 = GND		2 Port	FFDC-2-4FR-CA		

Foundation Fieldbus Series

M

Specifications:

Housing: Glass Filled PBT
Recp. Shell: Nickel Plated Brass
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating
Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)



Remove existing Conduit Body cover and replace with Mencom Conduit Adapter.

Works with all standard 3/4" NPT conduit bodies, including Form 8 and Mark 9 adapters. (screws are included with adapter)



Notes:

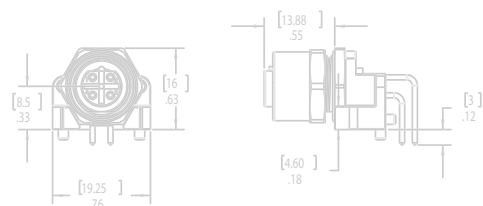
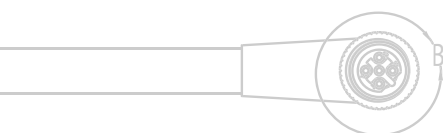
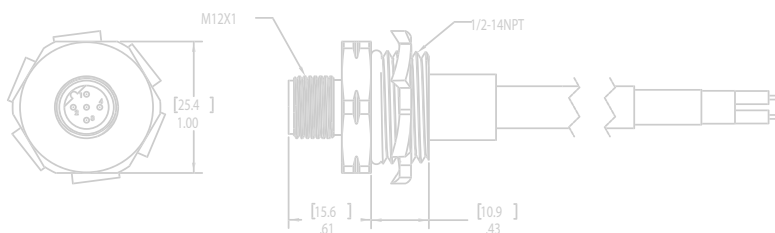
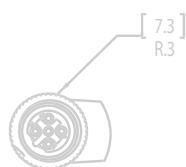
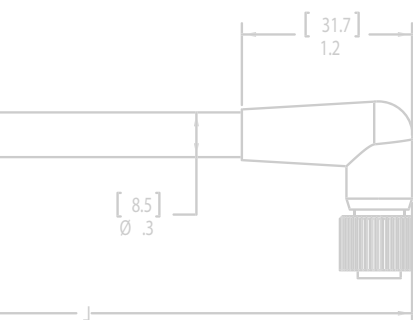
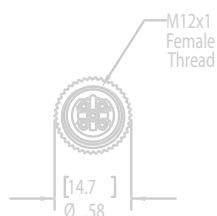


UL File #:
E149111



Profibus-DP

Technical drawing of a shaft with a keyway and a pulley. The shaft has a diameter of 47 mm and a length of 1.8 m. The pulley is mounted on the shaft.



Profibus-DP Series

Z



Contents

Cordsets	Part Number Matrix	N-3
	Straight	N-4
	Right Angle	N-4
	Double Ended	N-4
	Armored	N-5
Field Wireable Plugs		N-6
Receptacles	Part Number Matrix	N-7
	Index	N-8 ~ N-10
	Front Mount	N-11 ~ N-12
	PCB Mount	N-13 ~ N-14



Profibus-DP Series Cordsets

Profibus-DP Series Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

PBEC - 3 - - -

Connector Configuration

FP = Female Plug
MP = Male Plug
MFP = Male / Female Extension

Armor (See N-5 for more details)

Blank = No Armor
A01 = SS w/ Cable Inside
A03 = PVC Covered SS w/ Cable Inside
A50 = Silicone (Stops at Overmold)
A51 = Silicone (Covers Overmold)

R/A or Straight

Blank = Straight
R = Right Angle**

** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.

Profibus-DP Series

N



Profibus-DP Series Cordsets

3 Conductor Profibus-DP Series Cordsets, 22AWG



Straight, Right Angle & Double Ended Cordsets | 300 Volt, 4 amps | IP67 Rating



Profibus-DP Series

N

Profibus-DP Male Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Male Faceview
	PBEC-3MP-**	Purple PVC PLTC/AWM With Foil Shield 2 X 22 AWG 300V, 4A -40°C to +80°C 8.6mm OD	Industry Standard PVC Foil Shield	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Shield	 M12 x 1
Profibus-DP Female Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Female Faceview
	PBEC-3FP-**	Purple PVC PLTC/AWM With Foil Shield 2 X 22 AWG 300V, 4A -40°C to +80°C 8.6mm OD	Industry Standard PVC Foil Shield	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Shield	 M12 x 1
	PBEC-3FP-**-R	Purple PVC PLTC/AWM With Foil Shield 2 X 22 AWG 300V, 4A -40°C to +80°C 8.6mm OD	Industry Standard PVC Foil Shield	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Shield	
Male - Female Extension Cables					
Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
 M12 x 1	PBEC-3MFP-**	Purple PVC PLTC/AWM With Foil Shield 2 X 22 AWG 300V, 4A -40°C to +80°C 8.6mm OD	Industry Standard PVC Foil Shield	1. N/C 2. Green (TxD) 3. N/C 4. Red (RxD) 5. Shield	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. PBEC-3FP-1M becomes PBEC-3FP-1M-SS)



Male - Female Extension



Profibus-DP Series Armored Cordsets

Connectivity Solutions for Harsh & Rugged Environments



Stainless Steel Armor | PVC Covered Jacket | Silicone Tube



Connector Body Style	Suffix Number	Description	Features
	A01	Stainless Steel with Cable Inside	Crush, Corrosion and Abrasion Resistant
	A03	PVC Covered Stainless Steel with Cable Inside	Water Tight Crush, Corrosion and Abrasion Resistant
	A50	Silicone Tube (Stops at Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant
	A51	Silicone Tube (Covers Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant

To specify Armored Cable, add the suffix number shown in the table above to the end of the part number (e.g. PBEC-3FP-6M becomes PBEC-3FP-6M-A03).

Why do I need this product?

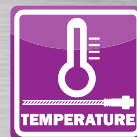
- To extend the life of existing assemblies in potentially destructive environments
- Connectorize to make faster installation and future repairs

Where are these products used?

Harsh & Rugged Environments exposed to Chemicals, Abrasions, High Temperature, Wash Down, Welding, Cutting, Marine Applications...

Profibus-DP Series

N





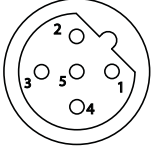
Profibus-DP Series Field Wireable Plugs

5 Conductor Profibus-DP Series Field Wireable Plugs, 18-24AWG

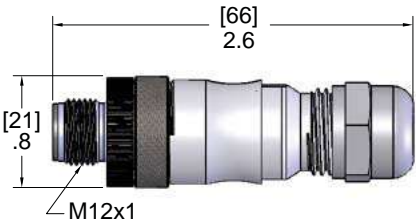


Straight Field Wireable Plugs | Shielded | 50 Volt, 4 amps | IP67 Rating

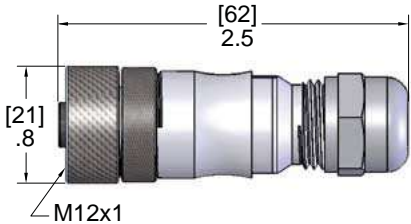


# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
5	 M12 x 1	50V 4A	18-24AWG	3-9 mm	PBECM-5MP-FW	PBECM-5FP-FW

Connection via screw terminal. Voltage and amperage ratings are cable dependent and are based on 50V, 18 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.



Male Straight with Male Threads



Female Straight with Female Threads



Specifications:

- Body: Nickel Plated Brass
- Contacts: Copper Alloy with Gold Plating
- O-Ring: NBR
- Coupling Nut: Nickel Brass
- Insert: PVC
- Temperature: -40°C to +90°C (-40°F to +194°F)

Profibus-DP Series

N



Profibus-DP Series Receptacles

Profibus-DP Series Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

PBEC - 3 - - - -

Ground Tab

Blank = No Ground Tab
M = Ground Tab

Connector Configuration

MP = Male Receptacle
FP = Female Receptacle

Mounting Style

Blank = No Wire
2 = Front Mount 1/2"-14 NPT
4 = Front Mount 1/4"-18 NPT
PG9 = Front Mount PG 9 Threads
M20 = Front Mount Metric 20 Threads

Other thread types are available, please consult the factory.

R/A or Straight

Blank = Straight
R = Right Angle

Length in Meters

Termination Type

Blank = Pre-Wired
PCB = PCB Mount

Profibus-DP Series

N



Profibus-DP Series Receptacles

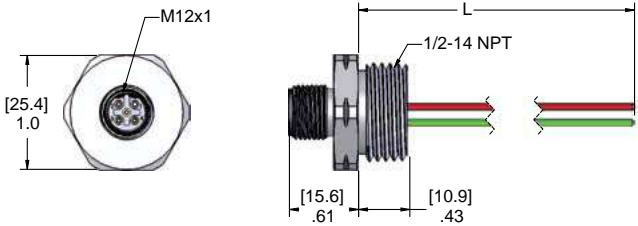
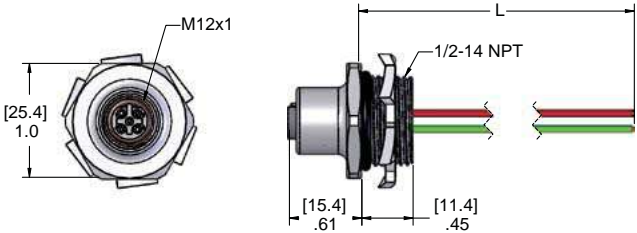
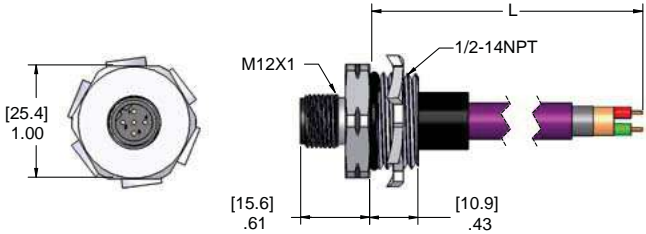
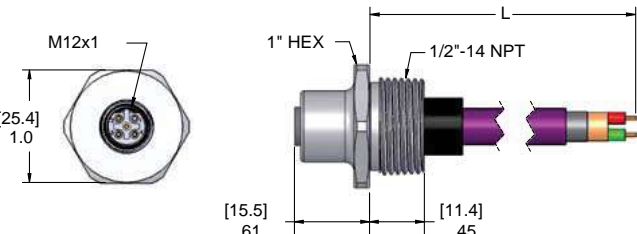
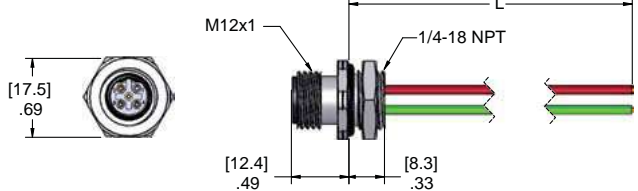
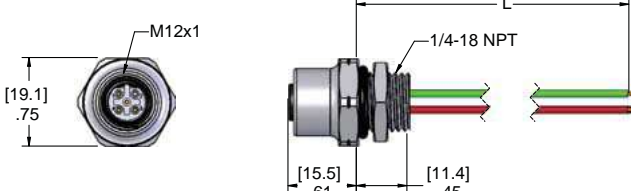
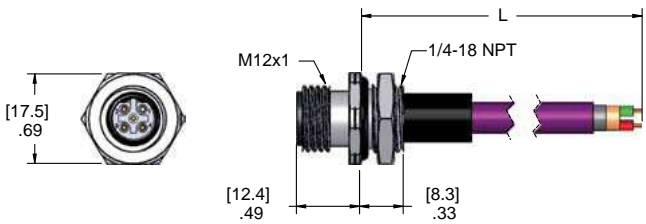
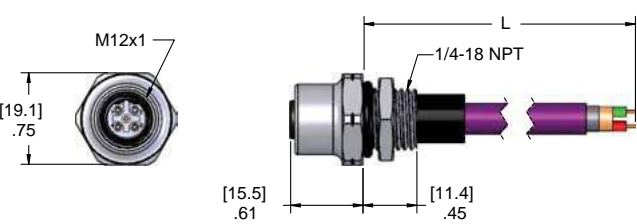
Profibus-DP Series Receptacle Index



Front Mount

Profibus-DP Series

N

Front Mount, Male, 1/2"-14 NPT, 12" Leads	Page N-11	Front Mount, Female, 1/2"-14 NPT, 12" Leads	Page N-11
			
Front Mount, Male, 1/2"-14 NPT, Cable Version	Page N-12	Front Mount, Female, 1/2"-14 NPT, Cable Version	Page N-12
			
Front Mount, Male, 1/4"-18NPT, 12" Leads	Page N-11	Front Mount, Female, 1/4"-18NPT, 12" Leads	Page N-11
			
Front Mount, Male, 1/4"-18 NPT, Cable Version	Page N-12	Front Mount, Female, 1/4"-18 NPT, Cable Version	Page N-12
			

Front Mount, Male, PG9 Threads, 12" Leads	Page N-11	Front Mount, Female, PG9 Threads, 12" Leads	Page N-11
Front Mount, Male, PG9 Threads, Cable Version	Page N-12	Front Mount, Female, PG9 Threads, Cable Version	Page N-12
Front Mount, Male, M20 Threads, 12" Leads	Page N-11	Front Mount, Female, M20 Threads, 12" Leads	Page N-11
Front Mount, Male, M20 Threads, Cable Version	Page N-12	Front Mount, Female, M20 Threads, Cable Version	Page N-12



Profibus-DP Series Receptacles

Profibus-DP Series Receptacle Index



PCB Mount

PCB Mount, Male	Page N-13	PCB Mount, Female	Page N-13
PCB Mount, Male, Right Angle	Page N-14	PCB Mount, Female, Right Angle	Page N-14

Profibus-DP Series

N



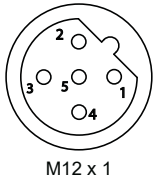
Profibus-DP Series Receptacles

3 Conductor Profibus-DP Series Receptacles, 22AWG



Front Mount Receptacles | 300 Volt, 4 amps | 12" Leads Version | IP67 Rating



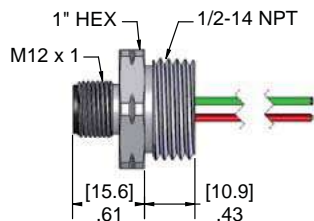
# of Poles	Male Faceview	Color Code	Wire AWG Rating	Threads	Male Receptacles	Female Receptacles
3		PIN #1 - N/C PIN #2 - Green (Tx)D PIN #3 - N/C PIN #4 - Red (Rx)D PIN #5 - Shield	22 AWG 300V 4A	1/2"-14 NPT	PBEC-3MR-2	PBEC-3FR-2
				1/4"-18 NPT	PBEC-3MR-4	PBEC-3FR-4
				PG9	PBEC-3MR-PG9	PBEC-3FR-PG9
				M20	PBEC-3MR-M20	PBEC-3FR-M20

12" leads are standard. Longer lead lengths are available, please consult the factory for part numbers.

For 1/2" receptacles with lengths of 15" or longer O-ring and jam nut are included.

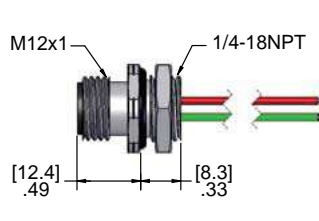
Stainless Steel versions are available, add "-SS" suffix to the part number (e.g. PBEC-3MR-2-SS).

1/2"-14NPT Threads



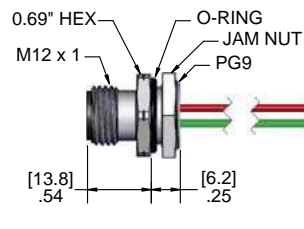
Male Receptacle

1/4"-18NPT Threads



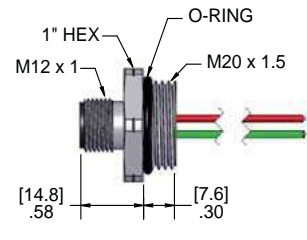
Male Receptacle

PG9 Threads

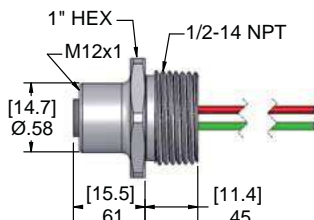


Male Receptacle

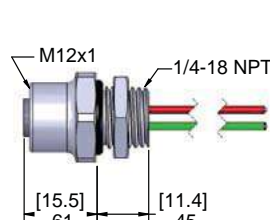
M20 Threads



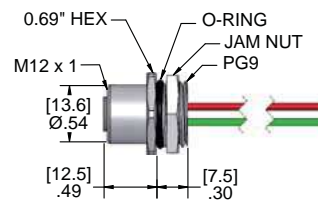
Male Receptacle



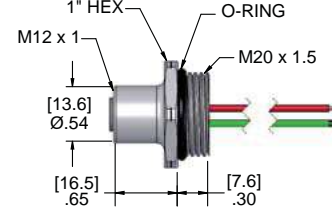
Female Receptacle



Female Receptacle



Female Receptacle



Female Receptacle

Specifications:

Shell: 1/2" -14 NPT: Clear Anodized Aluminum
1/4" -18 NPT: Nickel Plated Brass
PG 9: Nickel Plated Brass
M20: Clear Anodized Aluminum
Insulator: Polyamide

Contacts: Copper Alloy with Gold Plating
O-Ring: NBR
Lock Nut: Zinc Plated Steel
Jam Nut: Nickel Plated Brass
Temperature: -40°C to 80°C (-40°F to +221°F)

Profibus-DP Series

N



Profibus-DP Series Receptacles

3 Conductor Profibus-DP Series Receptacles, 22AWG



Front Mount Receptacles | 300 Volt, 4 amps | Cable Version | IP67 Rating

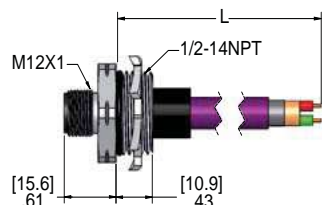


# of Poles	Male Faceview	Color Code	Wire AWG Rating	Threads	Male Receptacles	Female Receptacles
3	<p>M12 x 1</p>	PIN #1 - N/C PIN #2 - Green (Tx) PIN #3 - N/C PIN #4 - Red (Rx) PIN #5 - Shield	22 AWG 300V 4A	1/2"-14 NPT	PBEC-3MR-2-**-	PBEC-3FR-2-**-
				1/4"-18 NPT	PBEC-3MR-4-**-	PBEC-3FR-4-**-
				PG9	PBEC-3MR-PG9-**-	PBEC-3FR-PG9-**-
				M20	PBEC-3MR-M20-**-	PBEC-3FR-M20-**-

** Lengths in meters.

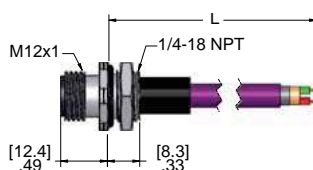
Stainless Steel versions are available , add "-SS" suffix to the part number (e.g. PBEC-3MR-2-SS).

1/2"-14NPT Threads



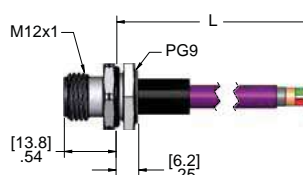
Male Receptacle

1/4"-18NPT Threads



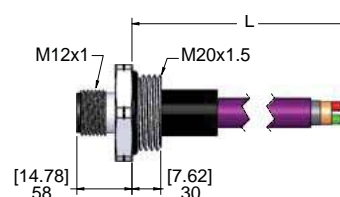
Male Receptacle

PG9 Threads

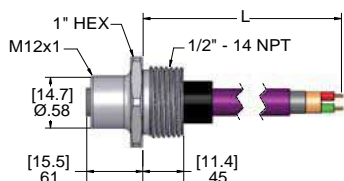


Male Receptacle

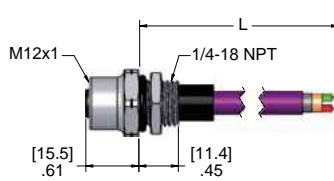
M20 Threads



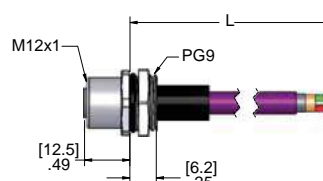
Male Receptacle



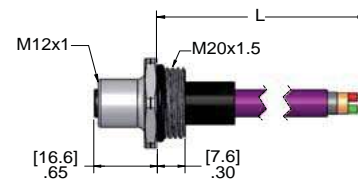
Female Receptacle



Female Receptacle



Female Receptacle



Female Receptacle

Specifications:

Shell: 1/2" -14 NPT: Clear Anodized Aluminum
 1/4" -18 NPT: Nickel Plated Brass
 PG 9: Nickel Plated Brass
 M20: Clear Anodized Aluminum
 Insulator: Polyamide
 Cable: Purple PVC, 2x22 AWG Cable with Foil Shield

Contacts: Copper Alloy with Gold Plating
 O-Ring: NBR
 Lock Nut: Zinc Plated Steel
 Jam Nut: Nickel Plated Brass
 Temperature: -40°C to 80°C (-40°F to +221°F)



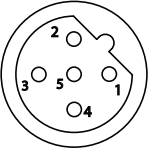
Profibus-DP Series Receptacles

5 Conductor Profibus-DP Series Receptacles

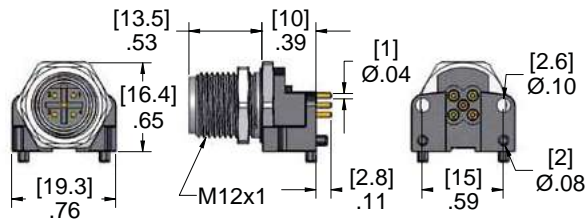


PCB Mount Straight Receptacles | 150 Volt, 4 amps | IP67 Rating

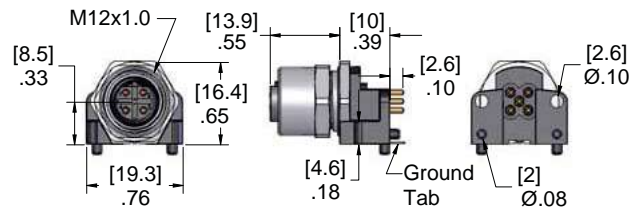


# of Poles	Male Faceview	Rating	Style	Male Receptacles	Female Receptacles
5	 M12 x 1	150V 4A	PCB Mount	PBEC-5MR-PCB	PBEC-5FR-PCB
			PCB Mount w/ Ground Tab	PBECM-5MR-PCB	PBECM-5FR-PCB

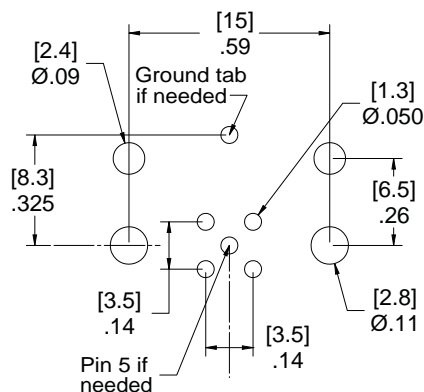
Male Straight



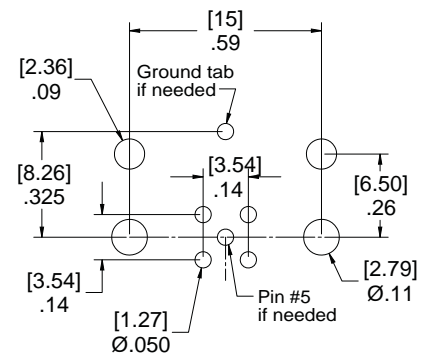
Female Straight



5 Pole
Male Straight Layout



5 Pole
Female Straight Layout



Specifications:

Body:	Polyamide
Contacts:	Copper Alloy with Gold Plating
Shell:	Nickel Plated Brass
O-Ring:	NBR
Jam Nut:	Nickel Plated Brass



Profibus-DP Series Receptacles

5 Conductor Profibus-DP Series Receptacles

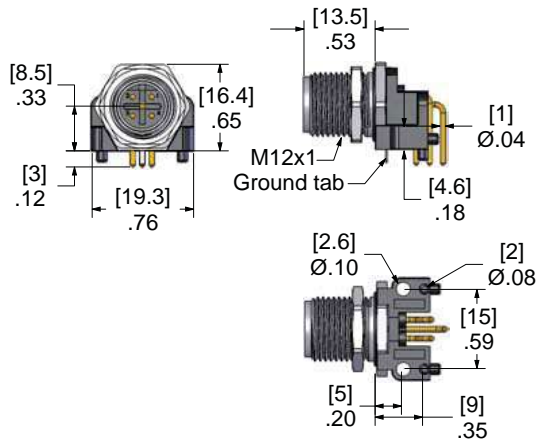


PCB Mount Right Angle Receptacles | 150 Volt, 4 amps | IP67 Rating

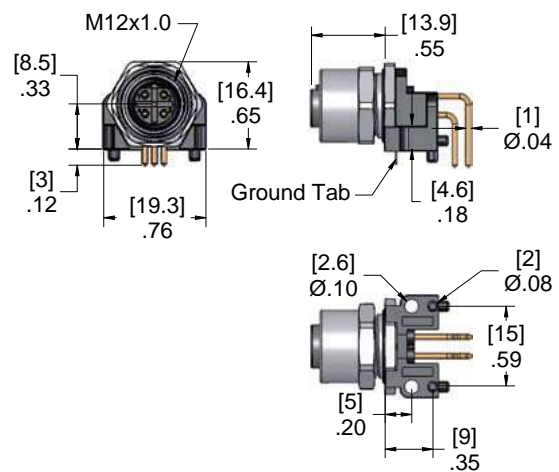


# of Poles	Male Faceview	Rating	Style	Male Receptacles	Female Receptacles
5	<p>M12 x 1</p>	150V 4A	PCB Mount	PBEC-5MR-PCB-R	PBEC-5FR-PCB-R
			PCB Mount w/ Ground Tab	PBECM-5MR-PCB-R	PBECM-5FR-PCB-R

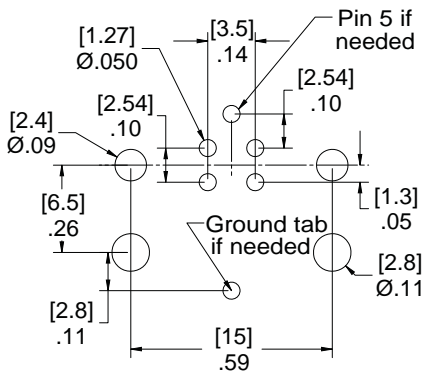
Male Right Angle



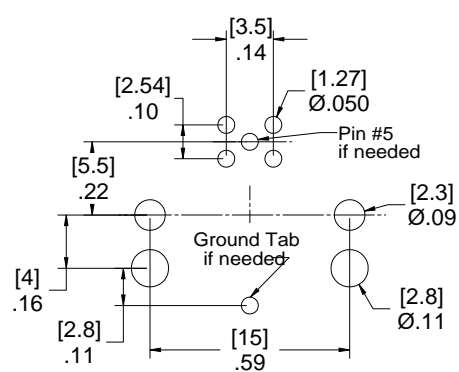
Female Right Angle



5 Pole
Male Right Angle Layout



5 Pole
Female Right Angle Layout



Specifications:

Body: Polyamide
Contacts: Copper Alloy with Gold Plating
Shell: Nickel Plated Brass

O-Ring: NBR
Jam Nut: Nickel Plated Brass



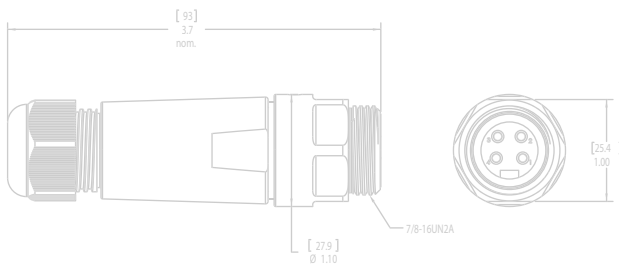
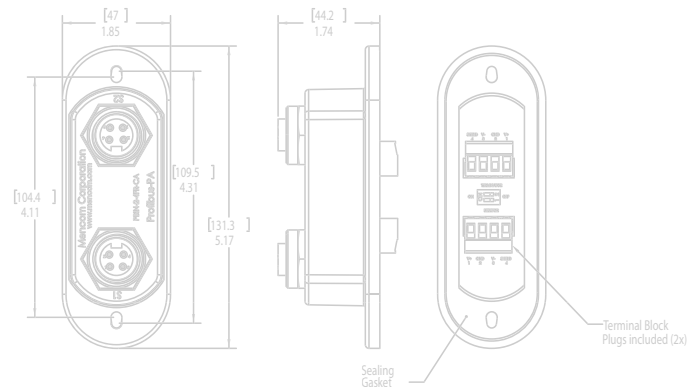
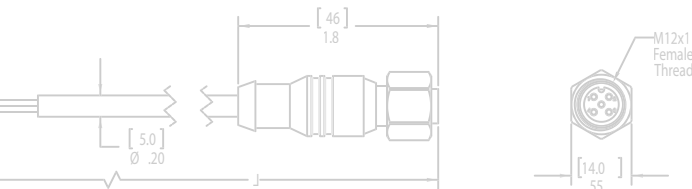
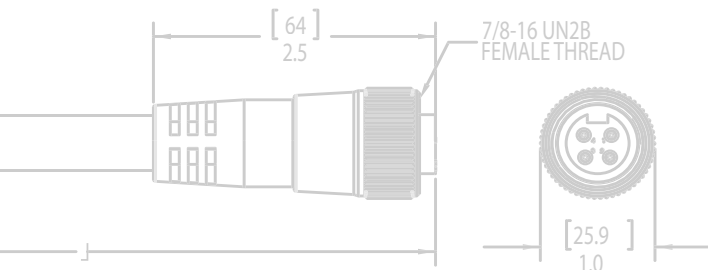
UL File #:
E149111



PROFIBUS (Process Field Bus) is a standard for field bus communication in automation technology. The PROFIBUS protocol has application specific profiles to meet differing factory floor requirements. There are two variations of PROFIBUS in use today; the most commonly used PROFIBUS DP (See Section-N), and the lesser used, application specific, PROFIBUS PA.

Profibus-PA

Profibus-PA is optimized for process automation to monitor measuring equipment via a process control system in process automation applications.





Contents

Cordsets	Part Number Matrix	0-3
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	Index	0-10
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		PG9 0-12
		M20 0-12
Conduit Adapters		0-13



Profibus-PA Series Cordsets

Profibus-PA Series Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

PB - 4 - - - SS -

Cordset Type

IN = MIN Cordset (7/8"-16UN)
DC = MDC Cordset (M12 x 1)

R/A or Straight

Blank = Straight
R = Right Angle**

** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Connector Configuration

MPX = Male Plug - 18awg
FPX = Female Plug - 18awg
MFPX = Male / Female Extension - 18awg

Aarmor (See 0-6 for more details)

Blank = No Armor
A01 = SS w/ Cable Inside
A03 = PVC Covered SS w/ Cable Inside
A50 = Silicone (Stops at Overmold)
A51 = Silicone (Covers Overmold)

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.




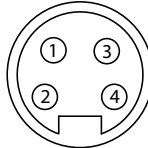

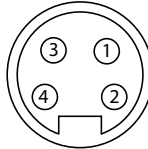

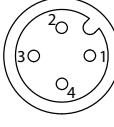

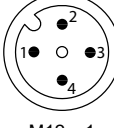
Profibus-PA Series MIN/MDC Cordsets

4 Conductor Profibus-DP Series MIN/MDC Cordsets, 18AWG



Straight Cordsets | 300V, 10A | 300V, 4A | IP67 Rating



MIN (7/8" 16UN) Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	PBIN-4MPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 7/8"-16UN2
	PBIN-4FPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 7/8"-16UN2
MDC (M12) Cordsets					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	PBDC-4MPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 M12 x 1
	PBDC-4FPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.



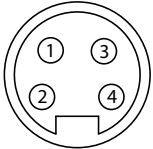
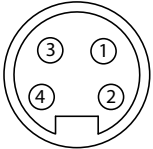
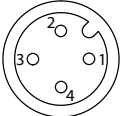
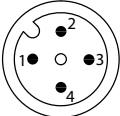
Profibus-PA Series MIN/MDC Cordsets

4 Conductor Profibus-DP Series MIN/MDC Cordsets, 18AWG

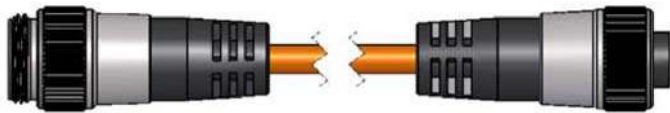


Double Ended Cordsets | 300V, 10A | 300V, 4A | IP67 Rating



MIN Double Ended Cordsets					
Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
 7/8"-16UN2	PBIN-4MFPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 10A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 7/8"-16UN2
MDC Double Ended Cordsets					
 M12 x 1	PBDC-4MFPX-**-SS	Orange PVC ITC-ER With Foil Shield 2 X 18 AWG 1 x 22 AWG (Drain) 300V, 4A -40°C to +105°C 7.2mm OD	Crush Proof Industry Standard PVC Stainless Steel Coupling Nut Foil Shield	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	 M12 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.



MIN Series Male - Female Extension



MDC Series Male - Female Extension

Profibus-PA Series

0



Profibus-PA Series Armored Cordsets

Connectivity Solutions for Harsh & Rugged Environments



Stainless Steel Armor | PVC Covered Jacket | Silicone Tube



Connector Body Style	Suffix Number	Description	Features
	A01	Stainless Steel with Cable Inside	Crush, Corrosion and Abrasion Resistant
	A03	PVC Covered Stainless Steel with Cable Inside	Water Tight Crush, Corrosion and Abrasion Resistant
	A50	Silicone Tube (Stops at Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant
	A51*	Silicone Tube (Covers Overmold)	Chemical and Weld Slag Resistant Hi-Temperature Resistant

* A51 only available for MDC Series.

To specify Armored Cable, add the suffix number shown in the table above to the end of the part number (e.g. PBDC-4FP-6M becomes PBDC-4FP-6M-A03).

Why do I need this product?

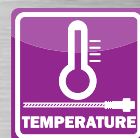
- To extend the life of existing assemblies in potentially destructive environments
- Connectorize to make faster installation and future repairs

Where are these products used?

Harsh & Rugged Environments exposed to Chemicals, Abrasions, High Temperature, Wash Down, Welding, Cutting, Marine Applications...

Profibus-PA Series

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Profibus-PA Series Field Wireable Plugs

4 Conductor Profibus-DP Series Field Wireable Plugs

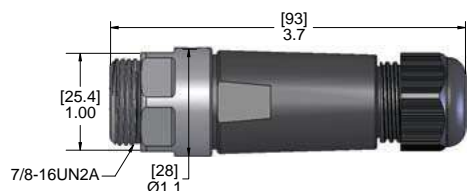


Field Wireable Plugs | MIN & MDC | 600 Volt, 15 amps MAX | 250 Volt, 4 amps MAX | IP67 Rating

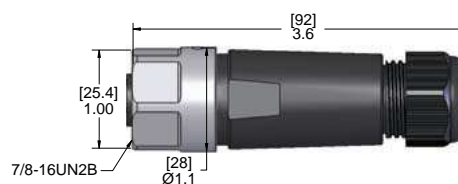


MIN Field Wireable Plugs						
# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
4		600V 15A MAX	14-22 AWG	5-13 mm	PBIN-4MPM-FW-SS	PBIN-4FP-FW-SS
				8-17 mm	PBIN-4MPM-FWX-SS	PBIN-4FP-FWX-SS

Connection via screw terminal. Voltage and amperage ratings are cable dependent and are based on 600V 14 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.



Male Staright with Male Threads



Female Staright with Female Threads

MDC Field Wireable Plugs						
# of Poles	Male Faceview	Rating	Wire AWG	Cable O.D. Range	Part Number	
					Male Plugs	Female Plugs
4		250V 4A MAX	18-24 AWG	3-6.5 mm	PBDC-4MP-FW07-SS	PBDC-4FP-FW07-SS
				4-8 mm	PBDC-4MP-FW09-SS	PBDC-4FP-FW09-SS
				8-10 mm	PBDC-4MP-FW11-SS	PBDC-4FP-FW11-SS

Connection via screw terminal. Voltage and amperage ratings are cable dependent and are based on 600V 14 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.



Male Straight with Male Threads



Female Straight with Female Threads

Specifications:

Body: Polyamide
Contacts: Copper Alloy with Gold Plating
Coupling Nut: Stainless Steel
O-Ring: NBR

Insert: PVC
Connections: Screw Terminals
Temperature: -40°C to +90°C (-40°F to +194°F)



Profibus-PA Series "T" Connectors

4 Conductor Profibus-PA Series "T" Connectors, 14-22AWG



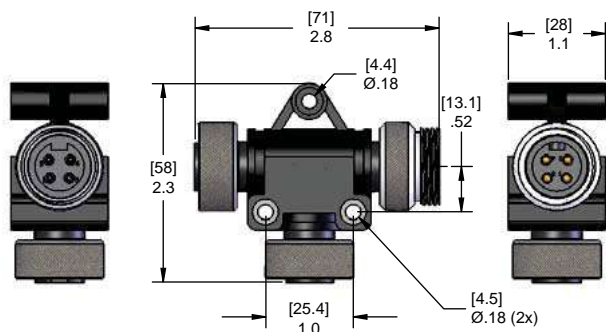
"T" Connectors | Male to Female | MIN & MDC | 300 Volt, 4/8 amps MAX | IP67 Rating



MIN Male to Two MIN Female "T" Connectors					
# of Poles	Male Faceview	Rating	Part Number	Wiring	Female Faceview
4	 7/8"-16UN2	300V 8A	PBIN-4MFF-T-SS	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4	 7/8"-16UN2
MIN Male to MIN & MDC Female "T" Connectors					
4	 7/8"-16UN2	300V 4A	PBINC-4MFF-T-SS	1 to 1 to 1 2 to 2 to 2 3 to 3 to 3 4 to 4 to 4	 M12 x 1

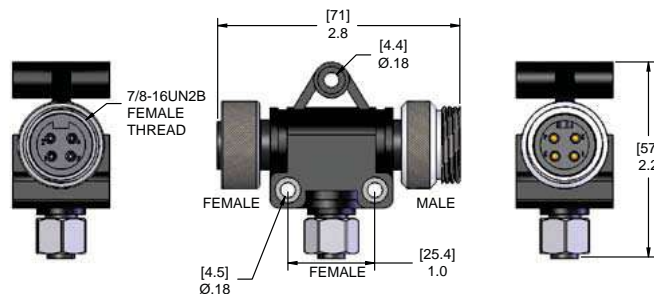
Profibus-PA Series

0



ALL THREADS 7/8-16 UN

MIN to MIN "T" Connector



MIN to MDC "T" Connector



Specifications:

Body: Oil Resistant Yellow PVC
 Contacts: Copper Alloy with Gold Plating
 Coupling Nut: Stainless Steel
 Temperature: -40°C to +105°C (-40°F to +221°F)



Profibus-PA Series Receptacles

Profibus-PA Series Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

PB - 4 - - - SS

Receptacles Type

IN = MIN Receptacle (7/8"-16UN)
DC = MDC Receptacle (M12 x 1)

Connector Configuration

MR = Male Receptacle
FR = Female Receptacle

Length in Meters

Mounting Style

Blank = Front Mount 1/2"-14 NPT (Only MIN)
2 = Front Mount 1/2"-14 NPT (Only MDC)
PG9 = Front Mount PG 9 Threads
M20 = Front Mount Metric 20 Threads

Other thread types are available, please consult the factory.

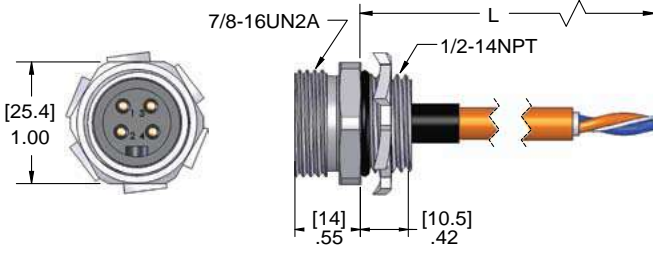
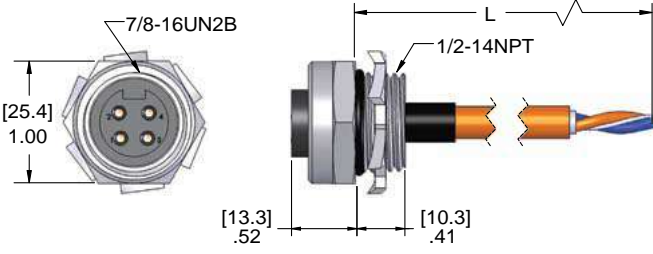
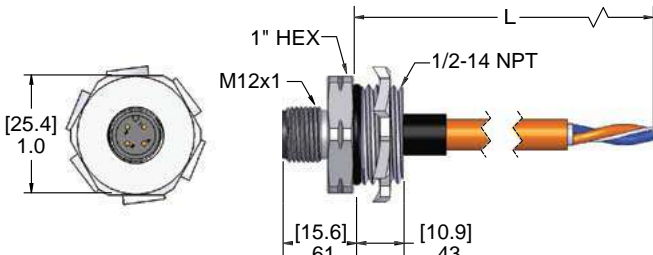
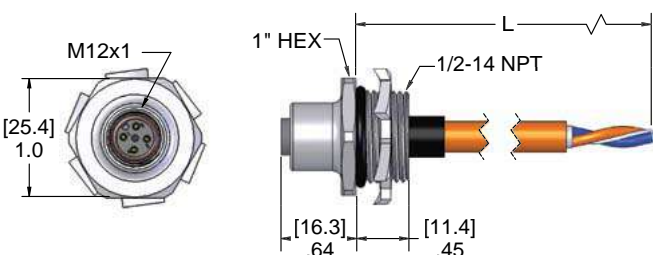
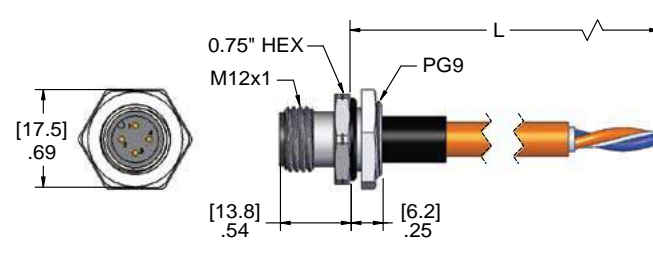
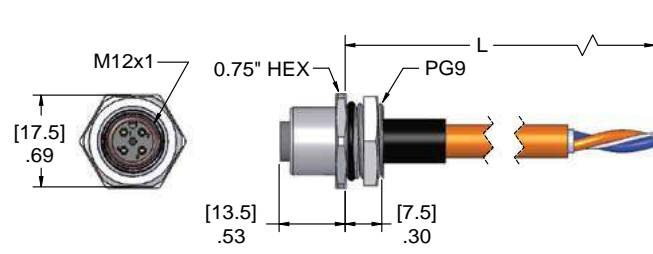
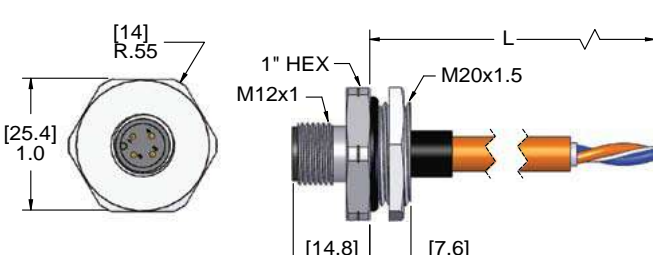
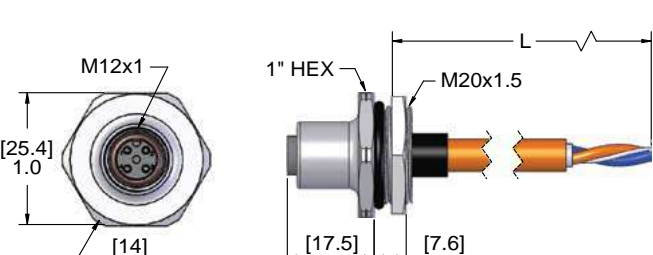


Profibus-PA Series Receptacles

Profibus-PA Series Receptacle Index



Front Mount

MIN, Front Mount, Male, 1/2"-14NPT	Page O-11	MIN, Front Mount, Female, 1/2"-14NPT	Page O-11
			
MDC, Front Mount, Male, 1/2"-14NPT	Page O-11	MDC, Front Mount, Female, 1/2"-14NPT	Page O-11
			
MDC, Front Mount, Male, PG9 Threads	Page O-12	MDC, Front Mount, Female, PG9 Threads	Page O-12
			
MDC, Front Mount, Male, M20 Threads	Page O-12	MDC, Front Mount, Female, M20 Threads	Page O-12
			



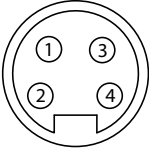
Profibus-PA Series MIN/MDC Receptacles

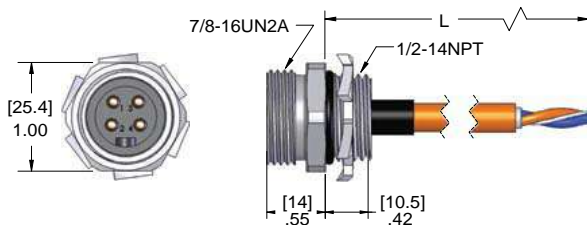
4 Conductor Profibus-PA Series Receptacles, 18AWG



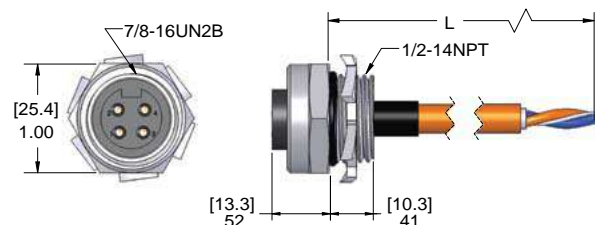
Front Mount Receptacles | 1/2"-14 NPT Threads | 300V, 8A | 300V, 4A | IP67 Rating



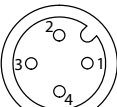
Profibus-PA MIN Receptacles 1/2"-14 NPT Threads						
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Receptacles	Female Receptacles
4	 7/8"-16UN2	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	300V 8A	18 AWG	PBIN-4MR-**-SS	PBIN-4FR-**-SS



Male Receptacle



Female Receptacle

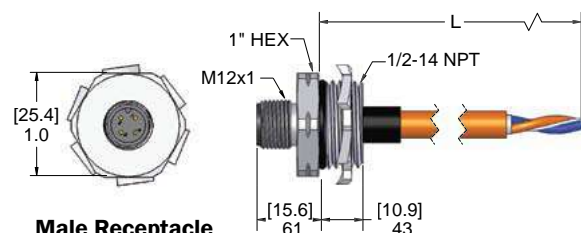
Profibus-PA MDC Receptacles 1/2"-14 NPT Threads						
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Male Receptacles	Female Receptacles
4	 M12 x 1	1. Orange(+) 2. N/C 3. Blue(-) 4. Shield	300V 4A	18 AWG	PBDC-4MR-2-**-SS	PBDC-4FR-2-**-SS

** Lengths in meters.

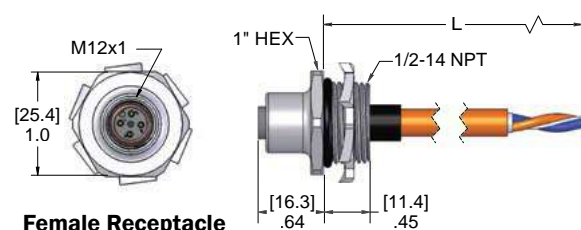
Lock Nut and O-Ring are included.

Specifications:

Shell:	Stainless Steel
Insulator:	PBIN: Oil Resistant Yellow PVC PBDC: Polyamide
Cable:	Orange PVC, 2x18 AWG Cable with Foil Shield
Contacts:	Copper Alloy with Gold Plating
O-ring:	NBR
Lock Nut:	Zinc Plated Steel
Temperature:	-40°C to 105°C (-40°F to +221°F)



Male Receptacle



Female Receptacle



Profibus-PA Series MDC Receptacles

4 Conductor Profibus-PA Series Receptacles, 18AWG



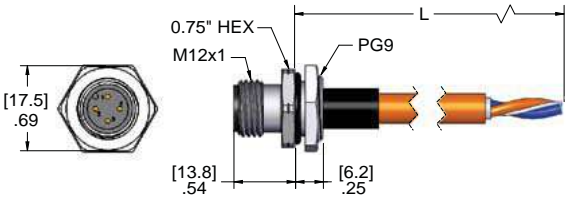
Front Mount Receptacles | PG9 & Metric Threads | 300 Volt, 4 amps | IP67 Rating



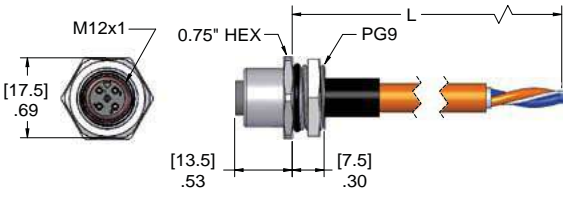
# of Poles	Male Faceview	Color Code	Rating	Wire AWG	Threads	Male Receptacles	Female Receptacles
4	<p>M12 x 1</p>	1. Blue(-) 2. Orange(+) 3. Shield 4. N/C	300V 4A	18 AWG	PG9	PBDC-4MR-PG9-**-SS	PBDC-4FR-PG9-**-SS
					M20	PBDC-4MR-M20-**-SS	PBDC-4FR-M20-**-SS

** Lengths in meters.
 Lock Nut and O-Ring are included.

PG9 Threads

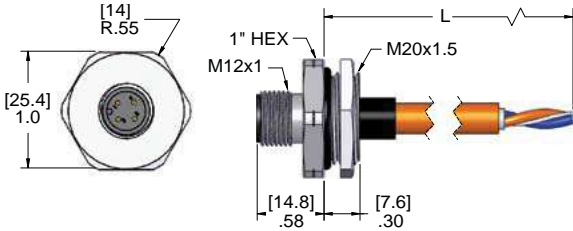


Male Receptacle

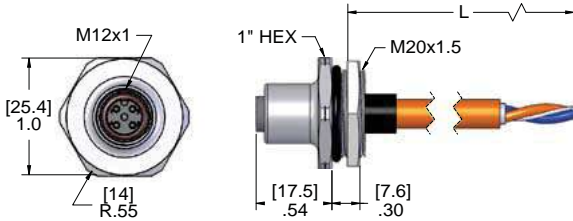


Female Receptacle

M20 Threads



Male Receptacle



Female Receptacle

Specifications:

- Shell: Stainless Steel
- Insulator: Polyamide
- Cable: Orange PVC, 2x18 AWG Cable with Foil Shield
- Contacts: Copper Alloy with Gold Plating
- O-Ring: NBR
- Jam Nut: Nickel Plated Brass
- Temperature: -40°C to 105°C (-40°F to +221°F)



Profibus-PA Series MIN Conduit Adapters

4 Conductor Profibus-PA Series Conduit Adapter

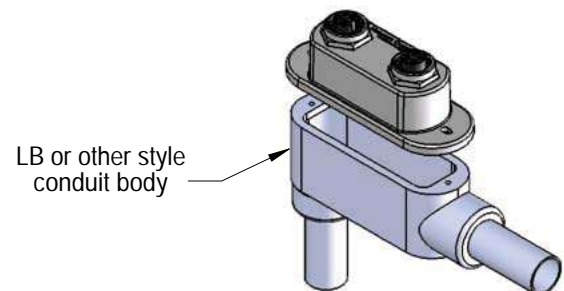


Conduit Adapters | MIN | MDC | 40 Volt, 4 amps | IP67 Rating

MIN Conduit Adapters						
# of Poles	Faceview	Rating	# of Ports	Part Number	Body Style	Circuit
4	 7/8"-16UN 1 = ORANGE (+ V) 2 = GROUND 3 = BLUE (- V) 4 = BARE (SHIELD)	40V 4A	1 Port	PBIN-1-4FR-CA		
	 1 = ORANGE (+ V) 2 = GROUND 3 = BLUE (- V) 4 = BARE (SHIELD)		2 Port	PBIN-2-4FR-CA		
MDC Conduit Adapters						
4	 M12 x 1 1 = ORANGE (+ V) 2 = GROUND 3 = BLUE (- V) 4 = BARE (SHIELD)	40V 4A	1 Port	PBDC-1-4FR-CA		
	 1 = ORANGE (+ V) 2 = GROUND 3 = BLUE (- V) 4 = BARE (SHIELD)		2 Port	PBDC-2-4FR-CA		

Specifications:

Housing: Glass Filled PBT
Recp. Shell: Nickel Plated Brass
Insert: Polyamide
Contacts: Copper Alloy with Gold Plating
Gasket: NBR
Temperature: -40°C to 70°C (-40°F to +158°F)



LB or other style
conduit body

Remove existing Conduit Body cover and
replace with Mencom Conduit Adapter.

Works with all standard 3/4" NPT conduit bodies,
including Form 8 and Mark 9 adapters.
(screws are included with adapter)



Notes: