Cordsets & Patchcords
M12 Flex Rated

4-Pin M12 D-Code Cordset

Features

- Over-molded housing suitable for IP67 applications and harsh industrial environments where extreme vibration, shock, chemicals, and temperature are found
- Flex-rated cable (cable must be tied down and not flexed within six inches of the connector
- Single-ended cordsets can be custom terminated with one of several field attachable connectors
- Designed to ODVA EtherNet/IP™ specifications and ISO IEC 24702, IEC 61918
- Twisted pairs maintain signal balance through cable to provide high noise immunity and return loss
- Suitable for noise environments $M_3I_3C_3E_3$

General Specifications

Mechanical	
Coupling Nut Material	Nickel-plated brass
Housing Material	Polyurethane (PUR)
Contact Material	Gold-plated brass
Cable Diameter [mm (in.)]	5.84 (0.23)
Bend Radius	—
Environmental	
Enclosure Type Rating	IP67

Cable Specifications

Cable Style	Cable Type	Wire Size, AWG	Cable O.D.	Cable Rating
TPE, high flex, unshielded	4 conductor, unshielded twisted pair (UTP), teal	24	5.6 mm (0.22 in.)	Weld splatter, sunlight, and oil resistant; UL CM, CMX; cUL CM; TIA 568B
PUR, foil and braided shield, high flex, halogen free	4 conductor, shielded twisted pair (STP), teal	26	5.84 mm (0.23 in.)	C(ETL)US TYPE CMX; TIA 568B
PVC, 600V rated, foil and braided shield	4 conductor, shielded twisted pair (STP), teal	22	8.13 mm (0.32 in.)	(UL) CMX, CMR; c(UL) CMG; (UL) PLTC or AWM 2570 80C 600V; TIA 568B

Approximate Dimensions [mm (in.)]

Dimensions are in millimeters (in.). Illustrations are not drawn to scale.

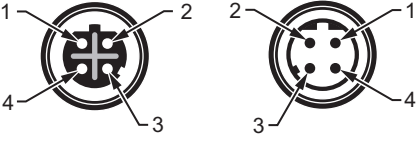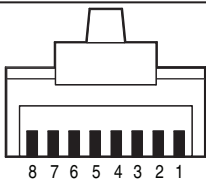47 (1.85)
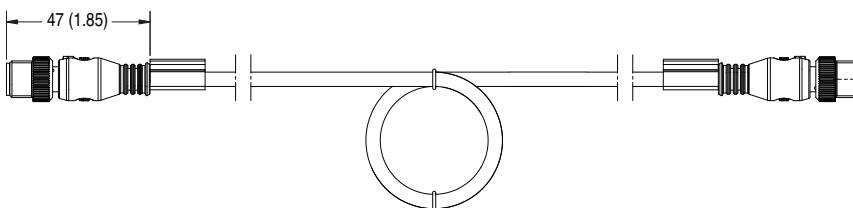
Example of Cordset
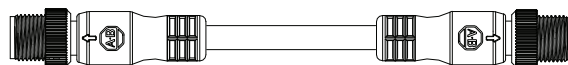
Example of M12 to M12 Patchcord

Example of M12 to RJ45 Patchcord

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Ethernet Media
Cordsets & Patchcords
M12 Flex Rated

Pinout

Face View Pinout		Face View RJ45 Pinout	
4-Pin		8-Pin	

Color Code			8-Pin		4-Pin	
A	1 White-Orange 2 White-Green	3 Orange 4 Green	1 White/Orange 2 Orange 3 White/Green 4 Blue 5 White/Blue 6 Green 7 White/Brown 8 Brown	TxData + TxData - Recv Data + Unused Unused Recv Data - Unused Unused	1 White/Orange 2 Orange 3 White/Green 4 NA 5 NA 6 Green 7 NA 8 NA	TxData + TxData - Recv Data + — — Recv Data - — —

Product Selection
M12 Cordset

Cable Style	First End Connector	Second End Connector	Operating Temperature [C (F)]	Cat. No.
TPE, high flex, unshielded	Male M12 D-Code, Straight	Flying Leads	-40…+75 ° (-40…+167 °)	1585D-M4TB-2
PUR, foil and braided shield, high flex, halogen free			-40…+75 ° (-40…+167 °)	1585D-M4UB-2
PVC, 600V rated, foil and braided shield			-20…+80 ° (-4…+176 °)	1585D-M4HB-2

M12 Patchcord

Cable Style	First End Connector	Second End Connector	Operating Temperature [C (F)]	Cat. No.
TPE, high flex, unshielded	Male M12 D-Code, Straight	Male M12 D-Code, Straight	-40…+75 ° (-40…+167 °)	1585D-M4TBDM-2
	Male M12 D-Code, Right Angle	Male M12 D-Code, Right Angle		1585D-E4TBDE-2
	Male M12 D-Code, Straight	Male M12 D-Code, Right Angle		1585D-M4TBDE-2
	Male M12 D-Code, Straight	Female M12 D-Code, Straight		1585D-M4TBDF-2
PUR, foil and braided shield, high flex, halogen free	Male M12 D-Code, Straight	Male M12 D-Code, Straight	-40…+75 ° (-40…+167 °)	1585D-M4UBDM-2
	Male M12 D-Code, Right Angle	Male M12 D-Code, Right Angle		1585D-E4UBDE-2
	Male M12 D-Code, Straight	Male M12 D-Code, Right Angle		1585D-M4UBDE-2
	Male M12 D-Code, Straight	Female M12 D-Code, Straight		1585D-M4UBDF-2
PVC, 600V rated, foil and braided shield	Male M12 D-Code, Straight	Male M12 D-Code, Straight	-20…+80 ° (-4…+176 °)	1585D-M4HBDM-2
	Male M12 D-Code, Right Angle	Male M12 D-Code, Right Angle		1585D-E4HBDE-2
	Male M12 D-Code, Straight	Male M12 D-Code, Right Angle		1585D-M4HBDE-2
	Male M12 D-Code, Straight	Female M12 D-Code, Straight		1585D-M4HBDF-2

M12 to RJ45 Patchcord

Cable Style	First End Connector	Second End Connector	Operating Temperature [C (F)]	Cat. No.‡
TPE, high flex, unshielded	Male M12 D-Code	RJ45	-40…+75 ° (-40…+167 °)	1585D-M4TBJM-2
PUR, foil and braided shield, high flex, halogen free			-40…+75 ° (-40…+167 °)	1585D-M4UBJM-2
PVC, 600V rated, foil and braided shield			-20…+80 ° (-4…+176 °)	1585D-M4HBJM-2

‡ Replace -2 (2 m) with 1 (1 m), 5 (5 m) or 10 (10 m) for additional standard cable lengths.

Accessories

Description	Channel Bandwidth	Cat. No.
RJ45 insulation displacement connector (IDC)	Cat. 6	1585J-M8CC-SH‡
RJ45 crimp connector with boot	Cat. 5e	1585J-M8CC-C§

‡ Qty. = 1 piece.
§ Qty. = 50 pieces.

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