

Cable Spools



Unshielded Twisted-pair Ethernet Cable Spool

Features

- 4- and 8-conductor styles
- Unshielded cable types, Cat 5e
- 24 AWG conductors
- Twisted pairs maintain signal balance through cable to provide high noise immunity and return loss
- Designed to ODVA EtherNet/IP specifications and ISO IEC 24702
- Suitable for high noise environments $M_3I_3C_3E_3$
- Riser PVC cables are used for general-purpose environments
- TPE robotic cable is used for flex applications, transmission-tested to 10 million cycles
- Plenum PVC cable is used for air duct applications
- TPE cable meets channel transmission performance to 10 million flexes

Specifications

Attributes	Bulletin 1585
Certifications	UL Listed and CEC
Cable type	Unshielded: 2- and 4-pair, Cat 5e
Material	Conductor: Tinned copper stranded
Bend radius	10 million cycles at 20 x diameter (TPE cable)
Data rate	Up to 1 GB/s
Operating temperature	-40...+75 °C (-40...+167 °F)
Voltage	300V

Cable and Color Code

Two-pair	Four-pair																								
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Product Selection

Jacket Material	Cable Type	No. of Conductors	Jacket Color	Wire Size [AWG]	Nominal Outer Diameter	Operating Temperature	Cable Rating	Cat. No. (1)
Robotic TPE	Unshielded	4 (two pairs)	Teal	24	5.6 mm (0.22 in.)	-40...+75 °C (-40...+167 °F)	Weld splatter, sunlight, and oil-resistant; UL CM, CMX; cUL CM; Standard TIA 568-B, high flex rated	1585-C4TB-Sx
		8 (four pairs)	Red		5.84 mm (0.23 in.)			1585-C8TB-Sx
Plenum			Teal					UL CMP; cUL CMG; Standard TIA 568-B
Riser PVC		UL CMR; cUL CMG; Standard TIA 568-B	1585-C8PB-Sx					

(1) Replace x with 100 [100 m (328 ft)], 300 [300 m (984 ft)], or 600 [600 m (1969 ft)] for standard cable lengths (example 1585-C4TB-Sx becomes 1585-C4TB-S600 for a 600 m cable).

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 (must be tied down and not flexed within 152 mm [6 in.] of the connector).
- Custom termination of single-ended cordsets 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 M₃I₃C₃E₃.

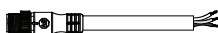
Specifications

Attributes	Bulletin 1585D
Material	<ul style="list-style-type: none"> • Coupling nut: Nickel-plated brass • Housing: Polyurethane (PUR) • Contact: Gold-plated brass
Enclosure type rating	IP67
Nominal outer diameter	5.84 mm (0.23 in.) ±10%
Bend radius	10 x cable diameter
Operating temperature	-40...+75 °C (-40...+167 °F)

Cable Style

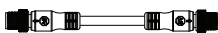
Cable Style	Cable Type	Wire Size [AWG]	Cable O.D. [mm (in.)]	Cable Rating
TPE, high flex, unshielded	4 conductor, unshielded twisted-pair (UTP), teal	24	5.6 (0.22)	Weld splatter, sunlight, and oil-resistant; UL CM, CMX; cUL CM; TIA 568B
PUR, foil and braided shield, high flex, halogen free	4 conductor,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

M12 Cordset Product Selection



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

M12 Patchcord Product Selection



Cable Style	First End Connector	Second End Connector	Operating Temperature	Cat. No.
TPE, high flex, unshielded	Male M12 D-Code, straight	Male M12 D-Code, straight	-40...+75 °C (-40...+167 °F)	1585D-M4TBDM-2
	Male M12 D-Code, right angle	Male M12 D-Code, right angle		1585D-E4TBDE-2
	Male M12 D-Code, straight	Female M12 D-Code, straight		1585D-M4TBDE-2
		Male M12 D-Code, straight		1585D-M4TBDF-2
PUR, foil and braided shield, high flex, halogen free	Male M12 D-Code, right angle	Male M12 D-Code, right angle	-40...+75 °C (-40...+167 °F)	1585D-M4UBDM-2
	Male M12 D-Code, straight	Female M12 D-Code, straight		1585D-E4UBDE-2
		Male M12 D-Code, straight		Female M12 D-Code, straight
	PVC, 600V rated, foil shield	Male M12 D-Code, right angle		Male M12 D-Code, right angle
Male M12 D-Code, straight		Female M12 D-Code, straight	1585D-M4HBDM-2	
		Male M12 D-Code, straight	Female M12 D-Code, straight	1585D-E4HBDE-2
Male M12 D-Code, straight		Female M12 D-Code, straight	1585D-M4HBDE-2	