

Ethernet Media Specifications

Bulletin Number 1585

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Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Pages
Updated conductor AWG under IDC Connector Features	18



M12 Flex-rated



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 $M_3I_3C_3E_3$.

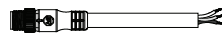
Specifications

Attributes	Bulletin 1585D
Coupling Nut Material	Nickel-plated brass
Housing Material	Polyurethane (PUR)
Contact material	Gold-plated brass
Enclosure type rating	IP67
Nominal outer diameter	5.84 mm (0.23 in.) $\pm 10\%$
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; c-UL CM; TIA 568B
PUR, foil and braided shield, high flex, halogen free	4 conductor, shielded twisted-pair (STP), teal	26	5.84 (0.23)	C(ETL)US TYPE CMX; TIA 568B
PVC, 600V rated, foil shield		22	8.13 (0.32)	(UL) CMX, CMR; c-UL CMG; (UL) PLIC 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			-20...+80 °C (-4...+176) °F	1585D-M4HB-2