Product: 9901

Transceiver 10BASE5, #20-4pr, FPO, Isolated Shields, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, Datalene® insulation, twisted pairs, overall polyester isolation tape + Duofoil® + tinned copper braid shield (95% coverage), drain wire, light gray PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	IEEE 802.3 Transceiver Cable

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	4	20	7x28	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Foam)	0.02 in (0.51 mm)	0.077 in (2.0 mm)	Gray & White, Yellow & Orange, Blue & Green, Black & Red	HDPE

Inner Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	95%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.415 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
11.3 Ohm/1000ft	16.7 pF/ft (54.8 pF/m)	29.5 pF/ft (96.8 pF/m)	78 Ohm	78%	2.66 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
30 V (AWM 2919), 300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature	Operating

80°C	-20°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
4.15 in (105 mm)	4.15 in

Max. Pull Tension:	208 lbs (94.3 kg)
Bulk Cable Weight:	97 lbs/1000ft

Standards and Compliance

Flammability / Reaction to Fire:	UL1685 UL Loading, FT4
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CL2, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
IEEE Compliance:	IEEE 802.3
European Directive Compliance:	EU CE Mark, EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	DEC Part No. 17-01320-00
Plenum Number:	89901

History

Update and Revision:	Revision Number: 0.371 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	UPC	Footnote
9901 E4X1000	Gray, Light Dec	612825260240	C
9901 E4X500	Gray, Light Dec	612825260257	C