



Product: [9902](#)

Transceiver 10BASE5, #20-5pr, 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

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	5	20 AWG	7x28	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.02 in (0.51 mm)	0.077 in (2.0 mm)	Gray & White, Yellow & Orange, Blue & Green, Red & Brown, Red & Black	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%	20 AWG (7x28) TC
Braid	Tinned Copper (TC)	95%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.04 in (1.0 mm)	0.495 in

Overall Cable Diameter (Nominal): 0.495 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
11.4 Ohm/1000ft	16.7 pF/ft (54.8 pF/m)	29.5 pF/ft (96.8 pF/m)	78 Ohm	78%	5.6 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
150 V (CL2), 30 V (AWM 2919)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
4.95 in (126 mm)	4.95 in

Max. Pull Tension:	248.6 lbs (112.8 kg)
Bulk Cable Weight:	138 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 800, Article 725
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Polyester separator tape over cabled pairs
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History

Update and Revision:	Revision Number: 0.360 Revision Date: 05-05-2023
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Part Numbers

Variants

Item #	Color	UPC
9902 E4X1000	Gray, Light Dec	612825260264
9902 E4X500	Gray, Light Dec	612825260271

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