



Product: [9903](#)

Transceiver 10BASE5, #28-3pr, #24-1pr, PO, Isolated Shields, PVC Jkt, CMG

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 28 and 24 AWG stranded tinned copper conductors, polypropylene insulation, #28-3, #24-1 twisted pairs, overall polyester isolation tape + Duofoil® + tinned copper braid shield (92% coverage), drain wire, light gray PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	IEEE 802.3 Transceiver Cable
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	3	28	7x36	TC - Tinned Copper
Pair(s)	1	24	7x32	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PP - Polypropylene	0.009 in (0.23 mm)	0.044 in (1.1 mm)	Gray & White, Yellow & Orange, Blue & Green, Black & Red

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%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	90%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.25 in (6.4 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	73.5 Ohm/1000ft	19.7 pF/ft (64.6 pF/m)	34.8 pF/ft (114 pF/m)	78 Ohm	66%	0.875 Amps per Conductor at 25°C
Pair(s)	28.81 Ohm/1000ft (94.52 Ohm/km)					

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
2.5 in (64 mm)	2.5 in (64 mm)

Max. Pull Tension:	68 lbs (31 kg)
Bulk Cable Weight:	39 lbs/1000ft

Standards and Compliance

Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CMG
IEEE Compliance:	IEEE 802.3
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Polyester separator tape over pairs
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History

Update and Revision:	Revision Number: 0.489 Revision Date: 03-04-2023
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Part Numbers

Variants

Item #	Color	UPC
9903 E4X1000	Gray, Light Dec	612825260288
9903 E4X500	Gray, Light Dec	612825260295

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