



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
------------------------	------------------------------

Construction Details

Conductor

Element	No. of Elements	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 Impedence	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
--------	-------------------------------------

History

Update and Revision:	Revision Number: 0.492 Revision Date: 01-11-2024
----------------------	--

Part Numbers

Variants

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

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.