

9903 Multi-Conductor - 10Base 5 Transceiver



For more Information
please call

1-800-Belden1

**Description:**

28 and 24 AWG stranded TC conductors, non-plenum, Polypropylene insulation, twisted pairs, overall polyester isolation tape + Duofoil® + TC braid shield (92% coverage), drain wire, light gray PVC jacket.

Usage (Overall)

Suitable Applications:

IEEE 802.3 Transceiver Cable

Physical Characteristics (Overall)**Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	28	7x36	TC - Tinned Copper
1	24	7x32	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material
PP - Polypropylene

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding:

7x32

Inner Shield Drain Wire Conductor Material:

TC - Tinned Copper

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	92

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Cabling Separator Material:

Polyester Tape

Overall Nominal Diameter:

0.250 in.

Pair

Pair Color Code Chart:

Number	Color
78 Ohm	Gray & White
78 Ohm	Yellow & Orange

78 Ohm	Blue & Green
Power Pair	Black & Red

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	41 lbs/1000 ft.
Max. Recommended Pulling Tension:	68 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2919 (30 V 80°C)
IEEE Specification:	IEEE802.3
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)	Tolerance (Ohms)
78	± 5

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
19.7

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
34.8

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.54

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
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28 AWG	65
24 AWG	24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.9

Max. Operating Voltage - UL:

Voltage
30 V RMS

Max. Recommended Current:

Current
.875 Amps per conductor at 25°C (28 AWG); 1.5 Amps per conductor at 25°C (24 AWG)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9903 E4X1000	1,000 FT	43.000 LB	GRAY, LIGHT DEC	C	1#24,3#28 SHPR PP SH PVC
9903 E4X500	500 FT	21.500 LB	GRAY, LIGHT DEC		1#24,3#28 SHPR PP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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