



# 9903

Multi-Conductor - 10Base 5 Transceiver



### 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.

### Put Ups and Colours

Item #	Putup	Ship Weight	Jacket Colour	Notes	Item Description
9903 E4X1000	1,000 FT	43.000 LB	GRAY, LIGHT DEC	C	1#24,3#28 SHPR PP SH PVC GRYLTDEC
9903 E4X500	500 FT	19.500 LB	GRAY, LIGHT DEC		1#24,3#28 SHPR PP SH PVC GRYLTDEC

### Notes:

C = Create Reel Put-up

### Suitable Applications (overall)

**Suitable Applications:** IEEE 802.3 Transceiver Cable

### Physical Characteristics (overall)

#### Conductor – AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (In.)
3.000	28	7x26	TC – Tinned Copper	
1.000	24	7x32	TC – Tinned Copper	

#### Insulation – Insulation Material

Ins Material
PP – Polypropylene

#### Inner Shield – Inner Shield Material

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

**Inner Shield Drain Wire 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	Beldfold®	Tape	Aluminium Foil-Polyester Tape-Aluminium Foil	100
2		Braid	TC – Tinned Copper	92

#### Outer Jacket – Outer Jacket Material

Outer Jacket Material
PVC – Polyvinylchloride

**Overall Cabling Separator Material:** Polyester Tape

**Overall Cabling – Overall Nominal Diameter:** 0.250 in.

### Pair Colour Code Chart

Number	Colour
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 Range	80°C (UL AWM Style 2919)
Bulk Cable Weight	41 lbs/1000ft
Max. Recommended Pulling Tension	68 lbs
Min. Bend Radius (Install)/Minor Axis	2.500 In.

**Applicable Specifications and Agency Compliance (overall)****Application**

NEC (UL) Specification	CMG	CMG	UL
CEC/C (UL) Specification	Style2919 (30 V 80°C)		
CSA Specification			
IEEE Specification	IEEE 802.3		
EU CE Mark			
EU RoHS Compliant (commence date: dd/mm/yyyy)	(01/01/2004)		

**Flame Test**

UL Flame Test	UL 1685 UL Loading
CSA Flame Test	FT4

**Plenum/Non-Plenum**

Plenum

**Electrical Characteristics (overall)****Nom. Characteristics Impedance**

Impedance (Ohm.)
78 ± 5

**Nom. Capacitance Conductor to Conductor**

Capacitance (pF/ft)
19.700

**Nom. Capacitance Conductor to Other Conductor & Shield**

Capacitance (pF/ft)
34.8000

**Nominal Velocity of Propagation**

VP (%)
66

**Nominal Delay**

Delay (ns/ft)
1.540

**Nominal Conductor DC Resistance**

Description	DCR @ 20°C (Ohm/1000 ft)
28 AWG	65.000
24 AWG	24.000

**Nominal Outer Shield DC Resistance**

DCR @ 20°C (Ohm/1000 ft)
2.900

**Max. Operating Voltage – UL**

Voltage
30 V RMS

**Max. Recommended Current**

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