Detailed Specifications & Technical Data



9903 Multi-Conductor - 10Base 5 Transceiver



For more Information please call

1-800-Belden1



General 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							
Total Number of Conductors:	8						
Insulation Insulation Material:							
Insulation Material Wall Thickness (mm) AWG							
PP - Polypropylene 0.229 28							
PP - Polypropylene 0.254 24							
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 Ta							
2 Braid TC - Tinned Copper	92						
Outer Jacket Outer Jacket Material:							
Outer Jacket Material Nom. Wall Thickness (mm)							
PVC - Polyvinyl Chloride 0.838							
Overall Cable							
Overall Cabling Separator Material:	Polyester Tape						
Overall Nominal Diameter:	6.350 mm						
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						
	20 C 10 480 C 80°C (UL AWM Style 2919)						
UL Temperature Rating:	00 C (OL ANNI SIJE 2313)						

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METRIC MEASUREMENT VERSION

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Bulk Cable Weight:	58.040 Kg/Km
Max. Recommended Pulling Tension:	302.478 N
Min. Bend Radius/Minor Axis:	63.500 mm
pplicable Specifications and Agency Complia Applicable Standards & Environmental Programs	nce (Overall)
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	
CSA Flame Test:	FT4
Plenum/Non-Plenum	
Plenum (Y/N):	No
Nom. Capacitance Conductor to Conductor: Capacitance (pF/m) 64.6357 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/m) 114.179 Nominal Velocity of Propagation: VP (%) 66 Nominal Delay: Delay (ns/m)	
5.05274 Nom. Conductor DC Resistance: Description DCR @ 20°C (Ohm/km) 28 AWG 213.265 24 AWG 78.744 Nominal Outer Shield DC Resistance:	
DCR @ 20°C (Ohm/km) 9.5149 Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CMG 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	С	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

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METRIC MEASUREMENT VERSION

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Notes: C = CRATE REEL PUT-UP.

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