Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



89901 Multi-Conductor - 10 Base 5 Transceiver

For more Information please call

1-800-Belden1



General Description:

20 AWG stranded (7x28) TC conductors, plenum, FEP Teflon® insulation, twisted pairs, overall polyester isolation tape + Duofoil + TC braid shield (95% coverage), drain wire, light gray fluorocopolymer (PVDF) jacket.

Usage (Overall) Suitable Applications: 10Base5 Transceiver **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material 20 7x28 TC - Tinned Copper **Total Number of Conductors:** 8 Insulation Insulation Material: **Insulation Material** Wall Thickness (mm) FFEP/Solid FEP - Foam Fluorinated Ethylene Propylene/Solid Fluorinated Ethylene Propylene | 0.279 Inner Shield Inner Shield Material: Inner Shield Trade Name Type Inner Shield Material Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Inner Shield Drain Wire AWG:

Inner Shield Drain Wire Stranding:

7x30

Inner Shield Drain Wire Conductor Material:

TC - Tinned Copper

Outer Shield

Outer Shield Material:

L	ayer#	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1		Duofoil®	Таре	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2	!		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.406

Overall Cable

Overall Cabling Separator Material: Polyester Tape **Overall Nominal Diameter:** 9.398 mm

Pair

Pair Color Code Chart:

Number	Color
1	Gray & White
2	Yellow & Orange
3	Blue & Green
4	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +150°C
UL Temperature Rating:	150°C
Bulk Cable Weight:	138.403 Kg/Km

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Max. Recommended Pulling Tension:	894.088 N
Min. Bend Radius/Minor Axis:	95.250 mm
Applicable Specifications and Agency Complia	nce (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/01/2005
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
Customer Part Number Reference Specification:	DEC Part No. 17-01319-00
Flame Test	
UL Flame Test:	NFPA 262
CSA Flame Test:	FT6
Suitability	
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	9901
Electrical Characteristics (Overall)	

Nom. Characteristic Impedance:

Impedance (Ohm) Tolerance (Ohm			
	78	± 5	

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 96.7895

Nominal Velocity of Propagation:

78

Nominal Delay:

Delay (ns/m) 4.2653

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 34.4505

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 4.9215

Max. Attenuation:

10	6	

Max. Operating Voltage - UL:

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Voltage 300 V RMS

Max. Recommended Current:

Current 2.8 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89901 E4X1000	1,000 FT	102.000 LB	GRAY, LIGHT DEC	С	4#20 SHPR SLF W/.051"VGM
89901 E4X500	500 FT	50.500 LB	GRAY, LIGHT DEC	С	4#20 SHPR SLF W/.051"VGM

Notes: C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 11-07-2012

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