# **Detailed Specifications & Technical Data**

#### **ENGLISH 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 TC - Tinned Copper 20 7x28 **Total Number of Conductors:** 8 Insulation Insulation Material: **Insulation Material** Wall Thickness (in.) FFEP/Solid FEP - Foam Fluorinated Ethylene Propylene/Solid Fluorinated Ethylene Propylene | 0.011 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:

Layer	r # 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 (in.)
PVDF - Fluorocopolymer	0.016

#### **Overall Cable**

Overall Cabling Separator Material:	Polyester Tape
Overall Nominal Diameter:	0.370 in.

#### Pair

#### Pair Color Code Chart:

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

#### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +150°C
UL Temperature Rating:	150°C
Bulk Cable Weight:	93 lbs/1000 ft.

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Max. Recommended Pulling Tension:	201 lbs.	
Min. Bend Radius/Minor Axis:	3.750 in.	
plicable Specifications and Agency Comp	oliance (Overall)	
pplicable 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	
ame Test		
UL Flame Test:	NFPA 262	
CSA Flame Test:	FT6	
itability		
Suitability - Outdoor:	Yes	
Suitability - Burial:	Yes	
enum/Non-Plenum		
Plenum (Y/N):	Yes	
Non-Plenum Number:	9901	

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
78	± 5

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:

78

Nominal Delay:

Delay (ns/ft) 1.30

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 1.5

Max. Attenuation:

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Attenuation (dB/100 m)

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.

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