

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
4	20	7x28	TC - Tinned Copper

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	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG
22

Inner Shield Drain Wire Stranding: 7x30

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	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:

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: 93 lbs/1000 ft.

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Max. Recommended Pulling Tension:	201 lbs.
Min. Bend Radius/Minor Axis:	3.750 in.

Applicable Specifications and Agency Compliance (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 (Ohms)
78	± 5

Nom. Inductance:

Inductance (µH/ft)
.2

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
16.7

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
29.5

Nominal Velocity of Propagation:

VP (%)
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)
	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	C	4#20 SHPR SLF W/.051"VGM
89901 E4X500	500 FT	50.500 LB	GRAY, LIGHT DEC	C	4#20 SHPR SLF W/.051"VGM

Notes:
C = CRATE REEL PUT-UP.

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