

## 89901 Paired - 10 Base 5 Transceiver

		<p style="text-align: center;"><b>For more information please call</b> <b>1-800-Belden1</b></p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p>
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### Description:

20 AWG stranded (7x28) TC conductors, plenum, FEP Teflon® insulation, twisted pairs, overall polyester isolation tape, individual Duofoil shielded (100% coverage) plus a TC braid shield (95% coverage), drain wire, light gray fluorocopolymer (PVDF) jacket.

### SUITABLE APPLICATIONS:

Suitable Applications	10Base5 Transceiver
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### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	20
Stranding	7x28
Conductor Material	TC - Tinned Copper

#### INSULATION:

Insulation Material	FFEP/Solid FEP - Foam Fluorinated Ethylene Propylene/Solid Fluorinated Ethylene Propylene
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#### Pair Color Code Chart :

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

#### INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape
Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	22
Inner Shield Drain Wire Stranding	7x30
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

#### OVERALL CABLING:

Overall Cabling Separator Material	Polyester Tape
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#### OUTER SHIELD:

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Outer Shield Material Trade Name Duofoil®

Outer Shield Type Tape/Braid

Outer Shield Material :

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Shield % Coverage 100 %

### OUTER JACKET:

Outer Jacket Material PVDF - Fluorocopolymer

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .370 in.

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range -20°C To +150°C

UL Temperature Rating 150°C

Bulk Cable Weight 99 lbs/1000 ft.

Max. Recommended Pulling Tension 201 lbs.

Min. Bend Radius (Install) 3.75 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification CMP

CEC/C(UL) Specification CMP

IEEE Specification IEEE802.3

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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) Y

Non-Plenum Number 9901

#### ELECTRICAL CHARACTERISTICS:

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Nom. Characteristic Impedance	78 ± 5 Ohms
Nom. Inductance	.2 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	16.7 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	29.5 pF/ft
Nominal Velocity of Propagation	78 %
Nominal Delay	1.30 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10.5 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	1.5 Ohms/1000 ft

Max. Attenuation (dB/100 m) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 m)
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Max. Operating Voltage - UL	150 V RMS
Max. Recommended Current	2.8 Amps per conductor @ 25°C

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
89901 E4X1000	4#20 SHPR SLF W/.051"VGM	1000	104	GRAY, LIGHT DEC	C
89901 E4X500	4#20 SHPR SLF W/.051"VGM	500	51.5	GRAY, LIGHT DEC	C

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 10-17-2006

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