


## 9901 Paired - 10 Base 5 Transceiver

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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### Description:

20 AWG stranded (7x28) TC conductors, non-plenum, Datalene® insulation, twisted pairs, overall polyester isolation tape, individual Duofoil® shield (100% coverage) + TC braid shield (95% coverage), drain wire, light gray PVC jacket.

### SUITABLE APPLICATIONS:

Suitable Applications	IEEE 802.3 Transceiver Cable
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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 Trade Name	Datalene®
Insulation Material	FHDPE - Foam High Density Polyethylene

#### Pair Color Code Chart :

Number	Color	Number	Color
1 (78 Ohm)	Gray & White	3 (78 Ohm)	Blue & Green
2 (78 Ohm)	Yellow & Orange	4 (Power)	Black & Red

#### INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil®
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 Shield % Coverage 100 %

### OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .415 in.

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range -20°C To +80°C  
 UL Temperature Rating 80°C (UL AWM Style 2919)  
 Bulk Cable Weight 96 lbs/1000 ft.  
 Max. Recommended Pulling Tension 230 lbs.  
 Min. Bend Radius (Install) 4.25 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification CM, CL2  
 CEC/C(UL) Specification CM  
 AWM Specification UL Style 2919 (30 V 80°C)  
 IEEE Specification IEEE802.3 10Base5  
 IEC Specification ISO8802.3 10Base5  
 EU CE Mark (Y/N) Yes  
 EU RoHS Compliant (Y/N) Yes  
 EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004  
 Customer Part Number Reference Specification DEC Part No. 17-01320-00

### FLAME TEST:

UL Flame Test UL1685 UL Loading

### PLENUM/NON-PLENUM:

Plenum (Y/N) N  
 Plenum Number 89901

### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance 78 Ohms  
 Nom. Capacitance Conductor to Conductor @ 1 KHz 16.7 pF/ft

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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	2 Ohms/1000 ft

Max. Attenuation (dB/100 m) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 m)
	10			6

Max. Operating Voltage - UL 30 V RMS (UL AWM Style 2919)

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
9901 E4X1000	4 #20 SH PR SH PVC	1000	106	GRAY, LIGHT DEC	C
9901 E4X500	4 #20 SH PR SH PVC	500	53.5	GRAY, LIGHT DEC	C

C = CRATE REEL PUT-UP.

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

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