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1-800-Belden1



General Description:

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

Usage (Overall)

Suitable Applications: IEEE 802.3 Transceiver Cable

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 Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	0.020

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	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.)
PVC - Polyvinyl Chloride	0.035

Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.415 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 97 lbs/1000 ft.

Max. Recommended Pulling Tension: 230 lbs.

Min. Bend Radius/Minor Axis:	4.250 in.
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
IEEE Specification:	IEEE802.3 10Base5
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):	01/01/2004
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. 17-01320-00

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89901

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
78

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)
2

Max. Attenuation:

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

Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2919
300 V RMS	CM

Max. Recommended Current:

Current
2.8 Amps per conductor @ 25°C

Put Ups and Colors:

9901 Multi-Conductor - 10 Base 5 Transceiver

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9901 E4X1000	1,000 FT	106.000 LB	GRAY, LIGHT DEC	C	4 #20 SH PR SH PVC
9901 E4X500	500 FT	53.500 LB	GRAY, LIGHT DEC	C	4 #20 SH PR SH PVC

Notes:

C = CRATE REEL PUT-UP.

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