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1-800-Belden1



General Description:

20 AWG stranded (7x28) .038" tinned copper conductors, Datalene® insulation, twisted pairs, overall polyester isolation tape plus a tinned copper braid shield (95% coverage), drain wire, 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:

Type	Outer Shield Material	Coverage (%)
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 Nominal Diameter: 0.398 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

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

Bulk Cable Weight: 93 lbs/1000 ft.

Max. Recommended Pulling Tension: 175 lbs.

Min. Bend Radius/Minor Axis: 4 in.

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 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)

9.5

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.9

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
150 V RMS	CL2
300 V RMS	CM

Max. Recommended Current:

Current
2.8 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9892 0061000	1,000 FT	101.000 LB	BLUE, LIGHT	C	4PR #20 FHDPE/PVC SH PVC

ENGLISH MEASUREMENT VERSION

9892 Multi-Conductor - 10 Base 5 Transceiver

9892 006500	500 FT	51.500 LB	BLUE, LIGHT	C	4PR #20 FHDPE/PVC SH PVC
9892 0065000	5,000 FT	530.000 LB	BLUE, LIGHT	C	4 PR #20 FHDPE/PVC SH PVC

Notes:

C = CRATE REEL PUT-UP.

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