

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

For more Information
please call

1-800-Belden1



General Description:

12 AWG solid .086" bare copper conductor, foam polyethylene insulation, Duobond IV® quad shield (100% coverage), PVC jacket.

Usage (Overall)

Suitable Applications: Thick Ethernet

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	12	Solid	BC - Bare Copper	.086

Total Number of Conductors:

1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.243

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Dufoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	94
3	Dufoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	TC - Tinned Copper	90

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.405 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 1478)

Bulk Cable Weight: 122 lbs/1000 ft.

Max. Recommended Pulling Tension: 255 lbs.

Min. Bend Radius/Minor Axis: 4.250 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 1478 (30 V 60°C)

EU Directive 2011/65/EU (ROHS II): Yes

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

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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. 17-00451-00

Flame Test

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

Plenum (Y/N):	No
Plenum Number:	89880

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
50	+/- 2

Nom. Inductance:

Inductance (µH/ft)
.065

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26.0

Nominal Velocity of Propagation:

VP (%)
78

Nominal Delay:

Delay (ns/ft)
1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.42

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.52

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.19
5	.37
10	.52
50	1.2
100	1.7
200	2.55
400	3.9
700	5.5
900	6.5
1000	6.9
1500	8.5
2000	10.1
2500	11.5
3000	13.0

Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	
30 V RMS	UL AWM 1478

Notes (Overall)

Notes: Ringband stripes every 2.5 meters to aid users in tap placement.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9880 0041000	1,000 FT	131.000 LB	YELLOW	C	11H 50 OHM TRUNK CABLE
9880 0041640	1,640 FT	219.760 LB	YELLOW	C	11H 50 OHM TRUNK CABLE

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9880 004500	500 FT	66.000 LB	YELLOW	C	11H 50 OHM TRUNK CABLE
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Notes:

C = CRATE REEL PUT-UP.

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