Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

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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. (mm)
1	12	Solid	BC - Bare Copper	2.1844

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	6.1722

Outer Shield

Outer Shield Material:

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

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Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 10.287 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C		
UL Temperature Rating:	60°C (UL AWM Style 1478)		
Bulk Cable Weight:	181.560 Kg/Km		
Max. Recommended Pulling Tension:	1134.291 N		
Min. Bend Radius/Minor Axis:	107.950 mm		

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM

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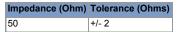


9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

	AWM Specification:	UL Style 1478 (30 V 60°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. 17-00451-00
Fla	ime Test	
	UL Flame Test:	UL1685 UL Loading
Ple	enum/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	89880

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/m) 0.213265

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 85.306

Nominal Velocity of Propagation:

VP (%) 78

Nominal Delay:

Delay (ns/m) 4.2653

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 4.65902

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 4.98712

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.62339
5	1.21397
10	1.70612
50	3.9372
100	5.5777
200	8.36655
400	12.7959
700	18.0455
900	21.3265
1000	22.6389

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1500	27.8885	
2000	33.1381	
2500	37.7315	
3000	42.653	

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	305 MT	59.421 KG	YELLOW	С	11H 50 OHM TRUNK CABLE
9880 0041640	500 MT	99.682 KG	YELLOW	С	11H 50 OHM TRUNK CABLE
9880 004500	152 MT	29.937 KG	YELLOW	С	11H 50 OHM TRUNK CABLE

C = CRATE REEL PUT-UP.

Test Reports

a) UL

i) UL Test Reports are available on-line through the UL Client Document Access web portal.
ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CŚA

i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.

ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

Revision Number: 3 Revision Date: 09-25-2012

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^{*} other test data may be available if requested at time of order.