# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

SAMILY SA

For more Information please call

1-800-Belden1



# **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	<b>Conductor Material</b>	Dia. (in.)
1	12	Solid	BC - Bare Copper	.086

### Insulation

**Insulation Material:** 

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

### **Outer Shield**

**Outer Shield Material:** 

Layer # Outer Shield Trade Name Type		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

## **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:	113 lbs/1000 ft.		
Max. Recommended Pulling Tension:	255 lbs.		
Min. Bend Radius (Install)/Minor Axis:	4 in.		

## **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM, CL2
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 1478 (30 V 60°C)

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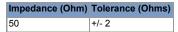


## 9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

	IEEE Specification:	IEEE802.3 10Base5
	Other Standards:	ISO8802.3 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/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

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1500	8.5	
2000	10.1	
2500	11.5	
3000	13.0	

### Max. Operating Voltage - UL:

Voltag	ge
300 V	RMS
30 V F	RMS (UL AWM Style 1478)

### Max. Operating Voltage - Non-UL:

Voltage					
300	V	RMS			

### **Notes (Overall)**

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

### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9880 0041000	1,000 FT	131.000 LB	YELLOW	С	11H 50 OHM TRUNK CABLE
9880 0041640	1,640 FT	219.760 LB	YELLOW	С	11H 50 OHM TRUNK CABLE
9880 004500	500 FT	66.000 LB	YELLOW	С	11H 50 OHM TRUNK CABLE

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-23-2008

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