

## 89880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

For more Information  
please call

1-800-Belden1

**General Description:**

12 AWG solid .086" bare copper conductor, foam FEP insulation, Duobond IV® quad shield (100% coverage), fluorocopolymer 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.)
FFEP - Foam Fluorinated Ethylene Propylene	.245

**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	90
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	TC - Tinned Copper	90

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

**Overall Cable**

Overall Nominal Diameter: 0.375 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -25°C To +150°C

UL Temperature Rating: 150°C

Bulk Cable Weight: 125 lbs/1000 ft.

Max. Recommended Pulling Tension: 255 lbs.

Min. Bend Radius/Minor Axis: 3.750 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CL2P, CMP

CEC/C(UL) Specification: CMP

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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):	04/01/2005
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. 17-00324-00

## Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

## Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9880

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

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

## Nom. Inductance:

Inductance (μH/ft)
.0645

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26.0

## Nominal Velocity of Propagation:

VP (%)
78

## Nominal Delay:

Delay (ns/ft)
1.30

## 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

## Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.18
5	.37 max
10	.52 max
50	1.15

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100	1.65
200	2.45
400	3.8
700	5.6
900	6.8
1000	7.2

**Max. Power Rating:**

Freq. (MHz)	Rating (W)
1	15900
5	6928
10	4802
50	1992
100	1344
200	900
400	602
700	438
900	382
1000	361

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Notes (Overall)**

**Notes:** Ring-band stripes every 2.5 meters to aid users in tap placement.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89880 0031000	1,000 FT	134.000 LB	ORANGE	C	#11H FFEP SH SOL COAX
89880 0031640	1,640 FT	224.680 LB	ORANGE	C Z	#11H FFEP SH SOL COAX

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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