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

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FFEP - Foam Fluorinated Ethylene Propylene	6.223

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: 9.525 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 150°C

Bulk Cable Weight: 186.025 Kg/Km

Max. Recommended Pulling Tension: 1134.291 N

Min. Bend Radius/Minor Axis: 95.250 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2P, CMP
CEC/C(UL) Specification:	CMP
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

METRIC MEASUREMENT VERSION

89880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL 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/m)
0.211625

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.59058
5	.37 max
10	.52 max
50	3.77315
100	5.41365
200	8.03845
400	12.4678
700	18.3736
900	22.3108
1000	23.6232

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:

89880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

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.

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

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