

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

Total Number of Conductors: 1

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 |

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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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

Flame Test

UL Flame Test: UL1685 UL Loading

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/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 |

METRIC MEASUREMENT VERSION

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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 | C | 11H 50 OHM TRUNK CABLE |
| 9880 0041640 | 500 MT | 99.682 KG | YELLOW | C | 11H 50 OHM TRUNK CABLE |
| 9880 004500 | 152 MT | 29.937 KG | YELLOW | C | 11H 50 OHM TRUNK CABLE |

Notes:

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) CSA

- 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.

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

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