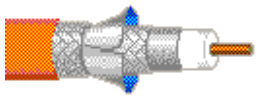
# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

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



For more Information please call

1-800-Belden1

## Description

12 AWG solid .086" bare copper conductor, foam FEP insulation, Duobond IV® quad shield (100% coverage), fluorocopolymer jacket.

## Suitable Applications (Overall):

| | |
|---|---|
| Suitable Applications | Thick Ethernet |

## Physical Characteristics (Overall):

**Conductor:**

AWG

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|---|---|---|---|---|
| 1 | 12 | Solid | BC - Bare Copper | 0.086 |

**Insulation:**

Insulation Material

| Ins Material | Dia. (in.) |
|---|---|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.245 |

**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 Cabling:**

| | |
|---|---|
| Overall Nominal Diameter: | .375 in. |

## Mechanical Characteristics (Overall):

| | |
|---|---|
| Operating Temperature Range | -25°C To +150°C |
| UL Temperature Rating | 150°C |
| Bulk Cable Weight: | 137 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 255 lbs. |
| Min. Bend Radius (Install): | 6 in. |

## Applicable Specifications and Agency Compliance (Overall):

**Applicable Standards:**

| | |
|---|---|
| NEC/(UL) Specification | CMP, CL2P |
| CEC/C(UL) Specification | CMP |
| IEEE Specification | IEEE802.3 10Base5 |
| EU CE Mark (Y/N) | Yes |

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| | |
|---|---|
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy) | 04/01/2005 |
| 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) | Y |
| Non-Plenum Number | 9880 |

## Electrical Characteristics (Overall):

Nom. Characteristic Impedance

| Impedance (Ohm) |
|---|
| 50 +/- 2 |

Nom. Inductance

| Inductance (µH/ft) |
|---|
| 0.065 |

Nom. Capacitance Conductor to Shield

| Capacitance (pF/ft) |
|---|
| 26.000 |

Nominal Velocity of Propagation

| VP (%) |
|---|
| 78 |

Nominal Delay

| Delay (ns/ft) |
|---|
| 1.300 |

Nom. Conductor DC Resistance

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 1.420 |

Nom. Attenuation

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100 ft.) |
|---|---|---|---|---|
| | 1.000 | | | 0.180 |
| | 5.000 | | | .37 max |
| | 10.000 | | | .52 max |
| | 50.000 | | | 1.150 |
| | 100.000 | | | 1.650 |
| | 200.000 | | | 2.450 |
| | 400.000 | | | 3.800 |
| | 700.000 | | | 5.600 |
| | 900.000 | | | 6.800 |
| | 1000.000 | | | 7.200 |

Max. Power Rating

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Rating (W) |
|---|---|---|---|---|
| | 1.000 | | | 15900.000 |
| | 5.000 | | | 6928.000 |
| | 10.000 | | | 4802.000 |
| | 50.000 | | | 1992.000 |
| | 100.000 | | | 1344.000 |
| | 200.000 | | | 900.000 |
| | 400.000 | | | 602.000 |

| | | | | |
|---|---|---|---|---|
| | 700.000 | | | 438.000 |
| | 900.000 | | | 382.000 |
| | 1000.000 | | | 361.000 |

Max. Operating Voltage - UL

| Voltage |
|---|
| 300 V RMS |

Max. Operating Voltage - Non-UL

| Voltage |
|---|
| 300 V RMS |

Nominal Outer Shield DC Resistance

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 1.520 |

## Notes (Overall):

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

## PUT UPS AND COLORS:

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

**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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