Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



89907 Coax - Coaxial Cable - Thinnet 10Base2 Ethernet

For more Information please call

1-800-Belden1



General Description:

20 AWG stranded (19x32) .037" tinned copper conductor, foam FEP insulation, Duobond® II (100% coverage) plus a tinned copper braid shield (93% coverage), fluorocopolymer jacket.

Usage (Overall)

Suitable Applications: Thin Ethernet

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|---------------------------|------------|
| 1 | 20 | 19x32 | TC - Tinned Copper | .037 |

Total Number of Conductors:

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--|------------|
| FFEP - Foam Fluorinated Ethylene Propylene | .095 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Туре | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1 | Bonded Duofoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 93 |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

Overall Cable

Overall Nominal Diameter: 0.160 in.

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -20°C To +150°C |
|-----------------------------------|-----------------|
| UL Temperature Rating: | 150°C |
| Bulk Cable Weight: | 22 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 45 lbs. |
| Min. Bend Radius/Minor Axis: | 1.750 in. |

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 10Base2 |

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| 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. 17-01246-00 |
| RG Type: | 58A/U |
| Flame Test | |
| UL Flame Test: | NFPA 262 |
| CSA Flame Test: | FT6 |
| Suitability | |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 9907 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

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

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



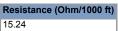
Nominal Delay:



Nom. Conductor DC Resistance:



Maximum Loop Resistance:



Nominal Outer Shield DC Resistance:

```
DCR @ 20°C (Ohm/1000 ft)
5.8
```

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | .43 |

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| 10 | 1.3 |
|------|------|
| 50 | 2.91 |
| 100 | 4.18 |
| 200 | 6.1 |
| 400 | 9.2 |
| 700 | 12.9 |
| 900 | 15.0 |
| 1000 | 16.0 |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 1 | 6450 |
| 2 | 4500 |
| 10 | 1850 |
| 20 | 1400 |
| 50 | 890 |
| 100 | 640 |
| 200 | 470 |
| 400 | 360 |
| 700 | 290 |
| 900 | 270 |
| 1000 | 260 |

Max. Operating Voltage - UL:

Voltage 300 V RMS

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-----------------|-------|-----------------------|
| 89907 E4X1000 | 1,000 FT | 24.000 LB | GRAY, LIGHT DEC | С | #20 FPFA BRD SLF COAX |
| 89907 E4X2500 | 2,500 FT | 60.000 LB | GRAY, LIGHT DEC | CZ | #20 FPFA BRD SLF COAX |
| 89907 E4X500 | 500 FT | 13.000 LB | GRAY, LIGHT DEC | С | #20 FPFA BRD SLF 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: 2 Revision Date: 09-25-2012

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