## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 84316 Coax - 50 Ohm Coax

For more Information please call

1-800-Belden1



#### **General Description:**

26 AWG stranded (7x34) .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), FEP jacket.

#### **Physical Characteristics (Overall)** Conductor AWG: Dia. (in.) # Coax AWG Stranding Conductor Material 26 7x34 SPCCS - Silver Plated Copper Covered Steel | .020 **Total Number of Conductors:** Insulation Insulation Material: Insulation Trade Name Insulation Material TFE - Tetrafluoroethylene | .058 **Outer Shield** Outer Shield Material: Type | Outer Shield Material Coverage (%) Braid | SPC - Silver Plated Copper | 95 **Outer Jacket** Outer Jacket Material: **Outer Jacket Material** FEP - Fluorinated Ethylene Propylene **Overall Cable Overall Nominal Diameter:** 0.096 in. **Mechanical Characteristics (Overall)** Operating Temperature Range: -70°C To +200°C Non-UL Temperature Rating: 200°C Bulk Cable Weight: 10 lbs/1000 ft. 21 lbs Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: 1 in. Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** EU Directive 2011/65/EU (ROHS II): EU CE Mark: No EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS):

04/01/2005

Yes

Yes

Yes

316/U

MIL-C-17, M17/113-RG316

# RG Type: Plenum/Non-Plenum

Military Specification:

EU RoHS Compliance Date (mm/dd/yyyy):

EU Directive 2002/96/EC (WEEE):

CA Prop 65 (CJ for Wire & Cable):

MII Order #39 (China RoHS):

EU Directive 2003/11/EC (BFR):

Plenum (Y/N): No

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#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/ft) 0.067

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
29.0

Nominal Velocity of Propagation:

**VP (%)** 69.5

Nominal Delay:

Delay (ns/ft) 1.48

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 84.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 6.5

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000       | 1.200                    |
| 10.000      | 2.700                    |
| 50.000      | 5.600                    |
| 100.000     | 8.300                    |
| 200.000     | 12.000                   |
| 400.000     | 17.500                   |
| 700.000     | 23.700                   |
| 900.000     | 27.300                   |
| 1000.000    | 29.000                   |
| 1500.000    | 36.500                   |
| 2000.000    | 42.500                   |
| 2400.000    | 47.200                   |
| 3000.000    | 53.600                   |

#### Max. Operating Voltage - Other:

| Voltage                | Description |  |  |
|------------------------|-------------|--|--|
| Military Specification | 900 V RMS   |  |  |

#### Minimum Structural Return Loss:

| Freq. (MHz) | Min. SRL (dB) |  |  |
|-------------|---------------|--|--|
| 50.000      | 30.000        |  |  |
| 100.000     | 30.000        |  |  |
| 400.000     | 23.000        |  |  |
| 1000.000    | 21.000        |  |  |
| 3000.000    | 17.000        |  |  |

#### Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

#### **Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc         |
|---------------|----------|-------------|-------|-------|-------------------|
| 84316 001100  | 100 FT   | 1.100 LB    | BROWN | E     | M17/13-RG316 COAX |
| 84316 0011000 | 1,000 FT | 11.000 LB   | BROWN | E     | M17/13-RG316 COAX |
| 84316 001500  | 500 FT   | 6.000 LB    | BROWN | E     | M17/13-RG316 COAX |

#### Notes

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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Revision Number: 5 Revision Date: 08-22-2012

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