

84303 Coax - 50 Ohm Coax

 For more Information  
 please call

1-800-Belden1

**Description:**

18 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, silver-coated copper braid shield (95% coverage), FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material                         | Dia. (in.) |
|--------|-----|-----------|--------------------------------------------|------------|
| 1      | 18  | Solid     | SCCCS - Silver-coated Copper-covered Steel | .037       |

Total Number of Conductors: 1

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material       | Dia. (in.) |
|-----------------------|---------------------------|------------|
| Teflon®               | TFE - Tetrafluoroethylene | .116       |

**Outer Shield****Outer Shield Material:**

| Type  | Outer Shield Material      | Coverage (%) |
|-------|----------------------------|--------------|
| Braid | SCC - Silver-coated Copper | 95           |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material                |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

**Overall Cable**

Overall Nominal Diameter: 0.170 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 200°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 112 lbs.

Min. Bend Radius/Minor Axis: 2 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CL2P

EU CE Mark: No

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

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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|                                   |                      |
|-----------------------------------|----------------------|
| CA Prop 65 (CJ for Wire & Cable): | Yes                  |
| MII Order #39 (China RoHS):       | Yes                  |
| Military Specification:           | MIL-DTL-17H, M17/111 |
| RG Type:                          | 303/U                |

## Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 50              |

### Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .067               |

### Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 29.0                |

### Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 70     |

### Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.48          |

### Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 16.3                     |

### Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 4.3                      |

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .3                       |
| 10          | 1.1                      |
| 50          | 2.7                      |
| 100         | 3.9                      |
| 200         | 5.6                      |
| 400         | 8.2                      |
| 700         | 11.0                     |
| 900         | 12.5                     |
| 1000        | 13.5                     |

### Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 150 V RMS |

### Max. Operating Voltage - Other:

| Voltage    | Description |
|------------|-------------|
| 1400 V RMS | MIL         |

## 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 |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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|               |          |           |       |     |              |
|---------------|----------|-----------|-------|-----|--------------|
| 84303 0011000 | 1,000 FT | 31.000 LB | BROWN | C E | M17/111 COAX |
| 84303 001500  | 500 FT   | 16.000 LB | BROWN | C E | M17/111 COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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

Revision Number: 3    Revision Date: 08-09-2012

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