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1-800-Belden1



## General Description:

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

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material                         | Dia. (mm) |
|--------|-----|-----------|--|-----------|
| 1      | 19  | Solid     | SCCCS - Silver-coated Copper-covered Steel | 0.940     |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material       | Dia. (mm) |
|-----------------------|---------------------------|-----------|
| Teflon®               | TFE - Tetrafluoroethylene | 2.9464    |

### Outer Shield

Outer Shield Material:

| Layer # | Type  | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1       | Braid | Silver-coated Copper  | 95.000       |
| 2       | Braid | Silver-coated Copper  | 95.000       |

### Outer Jacket

Outer Jacket Material:

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

### Overall Cable

Overall Nominal Diameter: 4.953 mm

## Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 62.504 Kg/Km

Max. Recommended Pulling Tension: 649.437 N

Min. Bend Radius/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

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                |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                |
| MII Order #39 (China RoHS):           | Yes                |
| Military Specification:               | MIL-DTL-17, M17/60 |
| RG Type:                              | 142/U              |

### Flame Test

|                 |     |
|-----------------|-----|
| CSA Flame Test: | FT6 |
|-----------------|-----|

### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**

50

### Nom. Inductance:

**Inductance (µH/m)**

0.219827

### Nom. Capacitance Conductor to Shield:

**Capacitance (pF/m)**

95.149

### Nominal Velocity of Propagation:

**VP (%)**

70%

### Nominal Delay:

**Delay (ns/m)**

4.85588

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**

63.3233

### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/km)**

7.5463

### Maximum VSWR:

| Freq. (MHz) | Max. VSWR |
|-------------|-----------|
| 50          | 1.11      |
| 400         | 1.14      |
| 1000        | 1.17      |
| 3000        | 1.33      |
| 8000        | 1.33      |

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 10          | 3.6091                |
| 50          | 8.5306                |
| 100         | 12.4678               |
| 200         | 17.7174               |
| 400         | 25.9199               |
| 700         | 35.1067               |
| 900         | 40.3563               |
| 1000        | 42.9811               |
| 2000        | 63.3233               |

|      |         |
|------|---------|
| 3000 | 79.4002 |
| 5000 | 106.961 |
| 8000 | 141.739 |

**Max. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 50          | 13.124                |
| 100         | 18.0455               |
| 400         | 38.3877               |
| 1000        | 62.339                |
| 3000        | 114.835               |
| 8000        | 216.546               |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 3500       |
| 100         | 2400       |
| 400         | 1100       |
| 1000        | 650        |
| 3000        | 330        |
| 8000        | 180        |

**Max. Operating Voltage - UL:**

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

## Misc. Information (Overall)

### 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       |
|---------------|----------|-------------|-------|-------|-----------------|
| 84142 001100  | 100 FT   | 5.000 LB    | BROWN |       | #18H RG142 COAX |
| 84142 0011000 | 1,000 FT | 44.000 LB   | BROWN | C E   | #18H RG142 COAX |
| 84142 001500  | 500 FT   | 22.500 LB   | BROWN | C E   | #18H RG142 COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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

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