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1-800-Belden1



### Description:

19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shield (96% 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     |

#### 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  | 96           |
| 1       | Braid | Silver-coated Copper  | 94           |

#### Outer Jacket

##### Outer Jacket Material:

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

#### Overall Cabling

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:                     | 63.993 Kg/Km    |
| Max. Recommended Pulling Tension:      | 649.437 N       |
| Min. Bend Radius (Install)/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 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-C-17G, M17/158-00001 |
| RG Type:                          | 142B/U                   |

**Flame Test**

|                                 |                               |
|---------------------------------|-------------------------------|
| UL Flame Test:                  | VW-1, NFPA 262                |
| C(UL) Flame Test:               | FT6                           |
| Other Information (Trademarks): | Teflon® is a DuPont trademark |

**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              |

**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. Operating Voltage - UL:**

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

**Max. Operating Voltage - Other:**

| Voltage    | Description |
|------------|-------------|
| 1400 V RMS | Military    |

**Misc. Information (Overall)****Notes (Overall)**

**Notes:** Non-SWR swept version of RG-142. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc          |
|---------------|--------|-------------|-------|-------|--------------------|
| 83242 001100  | 30 MT  | 2.359 KG    | BROWN | C E   | M17/158-00001 COAX |
| 83242 0011000 | 305 MT | 19.958 KG   | BROWN | C E   | M17/158-00001 COAX |
| 83242 001500  | 152 MT | 9.979 KG    | BROWN | C E   | M17/158-00001 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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