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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 shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--|------------|
| 1 | 19 | Solid | SCCCS - Silver-coated Copper-covered Steel | 0.037 |

Total Number of Conductors: 1

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.195 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 43 lbs/1000 ft.

Max. Recommended Pulling Tension: 146 lbs.

Min. Bend Radius/Minor Axis: 2 in.

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

MIL Order #39 (China RoHS): Yes

Military Specification: MIL-DTL-17, M17/158-00001

RG Type: 142B/U

Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

Suitability

Suitability - Indoor: Yes

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)

19.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.3

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 10 | 1.1 |
| 50 | 2.6 |
| 100 | 3.8 |
| 200 | 5.4 |
| 400 | 7.9 |
| 700 | 10.7 |
| 900 | 12.3 |
| 1000 | 13.1 |
| 2000 | 19.3 |
| 3000 | 24.2 |
| 5000 | 32.6 |
| 8000 | 43.2 |

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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|--------------------|
| 83242 001100 | 100 FT | 5.200 LB | BROWN | C E | M17/158-00001 COAX |
| 83242 0011000 | 1,000 FT | 44.000 LB | BROWN | C E | M17/158-00001 COAX |
| 83242 001500 | 500 FT | 22.000 LB | BROWN | C E | M17/158-00001 COAX |

Notes:

C = CRAI E REEL PUT-UP.
E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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