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please call

1-800-Belden1



### General Description:

RG-402/U type, 19 AWG solid .036" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material                         | Dia. (in.) |
|--------|-----|-----------|--|------------|
| 1      | 19  | Solid     | SPCCS - Silver Plated Copper Covered Steel | .036       |

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       | Tape  | Copper Foil           | 100          |
| 2       | Braid | Tin-Filled Composite  | 100          |

#### Overall Cable

Overall Nominal Diameter: 0.138 in.

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 105°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 26 lbs/1000 ft.

Max. Recommended Pulling Tension: 70 lbs.

Min. Bend/Installation: 0.250 in.

Min. Flexing Radius: 0.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245

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

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2005

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

RG Type: 402/U

#### Flame Test

Other Flame Test: Horizontal Wire

#### Suitability

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

**Nom. Inductance:**

Inductance (µH/ft)

0.070

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

29.5

**Nominal Velocity of Propagation:**

VP (%)

69.5

**Nominal Delay:**

Delay (ns/ft)

1.46

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

20.5

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

4.5

**Maximum VSWR:**

| Description               | Freq. (MHz) | Max. VSWR |
|---------------------------|-------------|-----------|
| Ramp Function, End Points | 500         | 1.1       |
|                           | 20000       | 1.3       |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 500         | 8.0                      |
| 1000        | 12.0                     |
| 2000        | 18.1                     |
| 3000        | 22.9                     |
| 5000        | 31.0                     |
| 7000        | 37.8                     |
| 10000       | 46.6                     |
| 15000       | 59.1                     |
| 18000       | 65.8                     |
| 20000       | 70.0                     |

**Max. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 500         | 9.5                      |
| 1000        | 14.5                     |
| 3000        | 26.5                     |
| 5000        | 36.0                     |
| 10000       | 54.0                     |
| 20000       | 84.0                     |

**Nom. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 500         | 600        |
| 1000        | 401        |
| 2000        | 268        |
| 3000        | 211        |
| 5000        | 157        |
| 7000        | 129        |
| 10000       | 105        |
| 15000       | 83         |
| 18000       | 74         |
| 20000       | 70         |

**Max. Operating Voltage - UL:**

**Voltage**  
30 V RMS

**Max. Operating Voltage - Non-UL:**

**Voltage**  
1900 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               |
|--------------|--------|-------------|-------------|-------|-------------------------|
| 1673A TIN100 | 100 FT | 3.100 LB    | TIN - COLOR | C     | #19 TFE BRD TINNED COAX |
| 1673A TIN250 | 250 FT | 7.250 LB    | TIN - COLOR | C V   | #19 TFE BRD TINNED COAX |
| 1673A TIN50  | 50 FT  | 1.800 LB    | TIN - COLOR |       | #19 TFE BRD TINNED COAX |
| 1673A TIN500 | 500 FT | 14.000 LB   | TIN - COLOR |       | #19 TFE BRD TINNED COAX |

**Notes:**

C = CRATE REEL PUT-UP.

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECESMINIMUM LENGTH 50'500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECESMINIMUM LENGTH 50'

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