

For more Information
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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. (mm) |
|--------|-----|-----------|--|-----------|
| 1 | 19 | Solid | SPCCS - Silver Plated Copper Covered Steel | 0.9144 |

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

Overall Cable

Overall Nominal Diameter: 3.505 mm

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: 38.693 Kg/Km

Max. Recommended Pulling Tension: 311.374 N

Min. Bend/Installation: 6.350 mm

Min. Flexing Radius: 1.905 cm

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 |
| MII 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/m)

0.22967

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

96.7895

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/m)

4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

67.2605

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

14.7645

Maximum VSWR:

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

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 500 | 26.248 |
| 1000 | 39.372 |
| 2000 | 59.3861 |
| 3000 | 75.1349 |
| 5000 | 101.711 |
| 7000 | 124.022 |
| 10000 | 152.895 |
| 15000 | 193.907 |
| 18000 | 215.89 |
| 20000 | 229.67 |

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 500 | 31.1695 |

| | |
|-------|---------|
| 1000 | 47.5745 |
| 3000 | 86.9465 |
| 5000 | 118.116 |
| 10000 | 177.174 |
| 20000 | 275.604 |

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 | 30 MT | 1.406 KG | TIN - COLOR | C | #19 TFE BRD TINNED COAX |
| 1673A TIN250 | 76 MT | 3.289 KG | TIN - COLOR | C V | #19 TFE BRD TINNED COAX |
| 1673A TIN50 | 15 MT | 0.816 KG | TIN - COLOR | | #19 TFE BRD TINNED COAX |
| 1673A TIN500 | 152 MT | 6.350 KG | TIN - COLOR | | #19 TFE BRD TINNED COAX |

Notes:

C = CRATE REEL PUT-UP.

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

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