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1-800-Belden1



## 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    |

### 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 Cabling

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: 29.764 Kg/Km

Max. Recommended Pulling Tension: 311.374 N

Min. Bend Radius (Install)/Minor Axis: 6.350 mm

Min. Bend Radius (Continuous Flexing): 19.050 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245

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 |
| Suitability - Outdoor: | 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               |

METRIC MEASUREMENT VERSION

## 1673A Coax - 50 Ohm Microwave Cable

|       |         |
|-------|---------|
| 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:** US Patents 4, 694, 122 & 5, 293, 001. Patent held in the U.S., Singapore, Australia, Germany, France, and England. Patent pending in Japan. 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               |
|--------------|--------|-------------|-------------|-------|-------------------------|
| 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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## 1673A Coax - 50 Ohm Microwave Cable

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