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please call

1-800-Belden1



### General Description:

RG-405/U type, 24 AWG solid .020" 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      | 24  | Solid     | SPCCS - Silver Plated Copper Covered Steel | .020       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material       | Dia. (in.) |
|-----------------------|---------------------------|------------|
| Teflon®               | TFE - Tetrafluoroethylene | .062       |

#### Outer Shield

Outer Shield Material:

| Layer # | Type  | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1       | Tape  | Copper Foil           | 100          |
| 2       | Braid | Tin-Filled Composite  | 100          |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| Unjacketed            |

#### Overall Cable

Overall Nominal Diameter: 0.085 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:                | 12 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 26 lbs.         |
| Min. Bend/Installation:           | 0.125 in.       |
| Min. Flexing Radius:              | 0.375 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            |
| MII Order #39 (China RoHS):           | Yes            |
| RG Type:                              | 405/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)

.07

**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)

64.2

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

10.2

**Maximum VSWR:**

| Freq. (MHz) | Max. VSWR |
|-------------|-----------|
| 500         | 1.1:1     |
| 20000       | 1.3:1     |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 500         | 15.0                     |
| 1000        | 22.2                     |
| 2000        | 32.8                     |
| 3000        | 41.2                     |
| 5000        | 54.9                     |
| 7000        | 66.4                     |
| 10000       | 81.2                     |
| 15000       | 102                      |
| 18000       | 113                      |
| 20000       | 120                      |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 500         | 180        |
| 1000        | 119        |
| 2000        | 79         |
| 3000        | 62         |
| 5000        | 46         |
| 7000        | 37         |
| 10000       | 30         |
| 15000       | 24         |
| 18000       | 21         |
| 20000       | 20         |

**Max. Operating Voltage - UL:**

Voltage  
30 V RMS (UL AWM Style 10245)

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

Voltage

1500 V RMS

Other Electrical Characteristic 1:

Shield effectiveness values are typical/nominal values.

Shield Effectiveness:

| Freq. (MHz) | Effectiveness (dB) |
|-------------|--------------------|
| 9000.000    | 120.000            |

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               |
|---------------|----------|-------------|-------------|-------|-------------------------|
| 1671A TIN100  | 100 FT   | 1.900 LB    | TIN - COLOR |       | #24 TFE BRD TINNED COAX |
| 1671A TIN1000 | 1,000 FT | 12.000 LB   | TIN - COLOR | V     | #24 TFE BRD TINNED COAX |
| 1671A TIN50   | 50 FT    | 1.100 LB    | TIN - COLOR |       | #24 TFE BRD TINNED COAX |
| 1671A TIN500  | 500 FT   | 6.500 LB    | TIN - COLOR | V     | #24 TFE BRD TINNED COAX |

Notes:

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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