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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), PVC jacket.

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 |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.127 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------------------|
| Operating Temperature Range: | -40°C To +105°C |
| UL Temperature Rating: | 105°C (UL AWM Style 10245) |
| Non-UL Temperature Rating: | 105°C |
| Bulk Cable Weight: | 16 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 (30 V 105°C) |
| 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): | 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

Suitability - Outdoor: 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 |

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 |
|---------------|----------|-------------|-------|-------|-----------------------------|
| 1671J 010100 | 100 FT | 2.400 LB | BLACK | | #24 TFE BRD TINNED COAX PVC |
| 1671J 0101000 | 1,000 FT | 17.000 LB | BLACK | V | #24 TFE BRD TINNED COAX PVC |
| 1671J 010500 | 500 FT | 9.500 LB | BLACK | V | #24 TFE BRD TINNED COAX PVC |

Notes:

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

Revision Number: 5 Revision Date: 01-15-2014

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