

For more Information
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1-800-Belden1



General Description:

23 AWG solid .022" bare copper conductor, polyethylene insulation, Duofoil® + tinned copper braid shield (95% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 23 | Solid | BC - Bare Copper | 0.5588 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene | 3.7084 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene |

Overall Cable

Overall Nominal Diameter: 5.588 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 191.273 N

Min. Bend Radius/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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): 01/01/2004

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: 59/U

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - When supported by a messenger wire

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.387158

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

68.901

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

5.11836

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

66.9324

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

14.7645

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.3124 |
| 3.58 | 1.6405 |
| 5 | 2.75604 |
| 7 | 3.21538 |
| 10.0 | 3.83877 |
| 67.5 | 9.35085 |
| 71.5 | 9.5149 |
| 100 | 10.9914 |
| 135 | 12.96 |
| 143 | 13.2881 |
| 180 | 14.9286 |
| 270 | 18.3736 |
| 360 | 21.4905 |
| 540 | 27.2323 |
| 720 | 31.6617 |
| 750 | 32.4819 |
| 1000 | 38.0596 |

Max. Operating Voltage - Non-UL:

| Voltage |
|------------|
| 2300 V RMS |

Other Electrical Characteristic 1: Impedance tested in accordance w/ASTM D-4566 para 43.2 opt 2 using a 75 Ohm fixed bridge&termination.

Other Electrical Characteristic 2: Return loss tested in accordance w/ASTM D-4566 para 45.3 using a 75 Ohm fixed bridge&termination.

Minimum Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 5.000 | 216.000 | 27.000 |
| 216.000 | 850.000 | 23.000 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 850 MHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------------|
| 9209 010U1000 | 1,000 FT | 29.000 LB | BLACK | | 75 OHM MINI VIDEO CABLE |
| 9209 010U500 | 500 FT | 15.000 LB | BLACK | | 75 OHM MINI VIDEO CABLE |

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