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1-800-Belden1



General Description:

10 AWG solid .108" bare copper conductor, semi-solid polyethylene insulation, Duobond II® + tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 10 | Solid | BC - Bare Copper | 2.7432 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Semi-Solid PE - Semi-Solid Polyethylene | 7.2644 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1 | Bonded DuoFoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 90 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 10.287 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 159.237 Kg/Km

Max. Recommended Pulling Tension: 1334.460 N

Min. Bend Radius/Minor Axis: 101.600 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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): 01/01/2004

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: 8/U

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 89913

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.193579

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
80.7126

Nominal Velocity of Propagation:

VP (%)
84

Nominal Delay:

Delay (ns/m)
3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
2.9529

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
5.9058

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 5.000 | 1.312 |
| 10.000 | 1.641 |
| 50.000 | 3.281 |
| 100.000 | 4.593 |
| 200.000 | 5.906 |
| 400.000 | 8.531 |
| 700.000 | 11.812 |
| 900.000 | 13.452 |
| 1000.000 | 14.436 |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 5.000 | 4021.000 |
| 10.000 | 3217.000 |
| 50.000 | 1609.000 |
| 100.000 | 1149.000 |
| 200.000 | 894.000 |
| 400.000 | 619.000 |
| 700.000 | 447.000 |
| 900.000 | 393.000 |
| 1000.000 | 366.000 |

Max. Operating Voltage - Non-UL:

Voltage
600 V RMS

Notes (Overall)

Notes: Recommend use of 7810R, 7810A, 9913F7, or 9914 for applications above 1 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|------------------|
| 9913 010100 | 100 FT | 14.200 LB | BLACK | C | RG-8/U TYPE COAX |
| 9913 0101000 | 1,000 FT | 116.000 LB | BLACK | C | RG-8/U TYPE COAX |
| 9913 010250 | 250 FT | 31.750 LB | BLACK | C | RG-8/U TYPE COAX |
| 9913 010500 | 500 FT | 57.000 LB | BLACK | C | RG-8/U TYPE COAX |
| 9913 0105000 | 5,000 FT | 625.000 LB | BLACK | C | RG-8/U TYPE COAX |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 07-29-2013

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