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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. (in.)
1	10	Solid	BC - Bare Copper	.108

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Semi-Solid PE - Semi-Solid Polyethylene	.286

#### 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: 0.405 in.

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 107 lbs/1000 ft.

Max. Recommended Pulling Tension: 300 lbs.

Min. Bend Radius/Minor Axis: 4 in.

### 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/ft)**  
.059

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**  
24.6

**Nominal Velocity of Propagation:**

**VP (%)**  
84

**Nominal Delay:**

**Delay (ns/ft)**  
1.2

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
.9

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
1.8

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.400
10.000	0.500
50.000	1.000
100.000	1.400
200.000	1.800
400.000	2.600
700.000	3.600
900.000	4.100
1000.000	4.400

**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.

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