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1-800-Belden1



## 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 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

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

### 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:**

<b>Voltage</b>
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	30 MT	6.441 KG	BLACK	C	RG-8/U TYPE COAX
9913 0101000	305 MT	52.617 KG	BLACK	C	RG-8/U TYPE COAX
9913 010250	76 MT	14.402 KG	BLACK	C	RG-8/U TYPE COAX
9913 010500	152 MT	25.855 KG	BLACK	C	RG-8/U TYPE COAX
9913 0105000	1,524 MT	283.497 KG	BLACK	C	RG-8/U TYPE COAX

**Notes:**

C = CRATE REEL PUT-UP.

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