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1-800-Belden1



## General Description:

RG-8/U type, 10 AWG stranded (7x19) .108" bare copper conductor, gas-injected foam HDPE insulation, Duobond II ® + tinned copper braid shield (95% coverage), Belflex® jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	10	7x19	BC - Bare Copper	2.7432

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	7.239

### 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	95

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

### Overall Cable

Overall Nominal Diameter: 10.287 mm

## Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 139.891 Kg/Km

Max. Recommended Pulling Tension: 934.122 N

Min. Bend Radius/Minor Axis: 76.200 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

MIL Order #39 (China RoHS): Yes

RG Type: 8/U

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
52

**Nom. Inductance:**

**Inductance (µH/m)**  
0.193579

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/m)**  
73.8225

**Nominal Velocity of Propagation:**

**VP (%)**  
85

**Nominal Delay:**

**Delay (ns/m)**  
3.9372

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
3.6091

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
5.9058

**Maximum VSWR:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	2250	1.43:1

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
10	1.9686
50	3.6091
100	4.9215
200	6.562
400	9.843
700	13.124
900	15.4207
1000	16.405
2000	24.6075
2250	26.248
3000	32.1538
4000	39.7001

**Nom. Power Rating:**

Freq. (MHz)	Rating (W)
5	3217
10	2681
50	1463
100	1073
200	805
400	575
700	424
900	366
1000	350
1500	278
1800	252
2000	237
2500	210
3000	188
4000	157

**Max. Operating Voltage - Non-UL:**

**Voltage**  
300 V RMS

**Other Electrical Characteristic 1:**

Actual Impedance specification is 51.5 +/- 2 ohms.

**Misc. Information (Overall)**

**Notes (Overall)**

**Notes:** Low Loss, High Flex

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9913F7 B59100	100 FT	12.100 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B591000	1,000 FT	100.000 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59250	250 FT	26.750 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59500	500 FT	50.000 LB	BLACK, MATTE	C	#10 FHDPE SH PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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