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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

MII 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:**

<b>Voltage</b>
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	30 MT	5.488 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B591000	305 MT	45.359 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59250	76 MT	12.134 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59500	152 MT	22.680 KG	BLACK, MATTE	C	#10 FHDPE SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 4    Revision Date: 07-29-2013

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