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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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