

For more Information
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1-800-Belden1



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

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 Cabling

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 (Install)/Minor Axis:	76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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
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RG Type:	8/U
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Aerial:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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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)
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10	1.9686
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50	3.6091
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100	4.9215
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200	6.562
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400	9.843
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700	13.124
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900	15.4207
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1000	16.405
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2000	24.6075
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2250	26.248
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3000	32.1538
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4000	39.7001
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Nom. Power Rating:

Freq. (MHz)	Rating (W)
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5	3217
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10	2681
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50	1463
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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**Related Documents:**

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9913F7 B59100	30 MT	5.670 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B591000	305 MT	47.174 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59250	76 MT	12.587 KG	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59500	152 MT	23.587 KG	BLACK, MATTE	C	#10 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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