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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. (in.)
1	10	7x19	BC - Bare Copper	.108

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.285

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: 0.405 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	94 lbs/1000 ft.
Max. Recommended Pulling Tension:	210 lbs.
Min. Bend Radius/Minor Axis:	3 in.

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/ft)
.059

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
22.5

Nominal Velocity of Propagation:

VP (%)
85

Nominal Delay:

Delay (ns/ft)
1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

Maximum VSWR:

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	.6
50	1.1
100	1.5
200	2.0
400	3.0
700	4.0
900	4.7
1000	5.0
2000	7.5
2250	8.0
3000	9.8
4000	12.1

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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