



Part Number: 9913F7

Low Loss 52 Ohm, RG8, Flexible 10 AWG Stranded BC, Foil + Braid, Belflex® Jacket

Product Description

Low Loss, 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.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	7x19	BC - Bare Copper	0.108 in	1
Conductor Count:			1	
Conductor Size:			10 AWG	

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.285 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		90 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.405 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
1.1 Ohm/1000ft	1.8 Ohm/1000ft	1.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield	
22.5 pF/ft	
Shielding:	Foil + Braid(s)

Inductance

Nominal Inductance
0.059 µH/ft

Impedance

Nominal Characteristic Impedance
52 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	0.6 dB/100ft
50 MHz	1.1 dB/100ft
100 MHz	1.5 dB/100ft
200 MHz	2 dB/100ft
400 MHz	3 dB/100ft
700 MHz	4 dB/100ft
900 MHz	4.7 dB/100ft
1000 MHz	5 dB/100ft
2000 MHz	7.5 dB/100ft
2250 MHz	8 dB/100ft
3000 MHz	9.8 dB/100ft
4000 MHz	12.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	85 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
10 MHz	0.7 dB/100ft
50 MHz	1.3 dB/100ft
100 MHz	1.8 dB/100ft
200 MHz	2.4 dB/100ft
400 MHz	3.4 dB/100ft
700 MHz	4.6 dB/100ft
900 MHz	5.3 dB/100ft
1000 MHz	5.6 dB/100ft
2000 MHz	8.2 dB/100ft
2250 MHz	8.9 dB/100ft
3000 MHz	10.9 dB/100ft
4000 MHz	13.6 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
5 MHz	3,217 W	3,217 W
10 MHz	2,681 W	2,681 W
50 MHz	1,463 W	1,463 W
100 MHz	1,073 W	1,073 W
200 MHz	805 W	805 W
400 MHz	575 W	575 W
700 MHz	424 W	424 W
1,000 MHz	350 W	366 W
1,500 MHz	278 W	350 W
2,000 MHz	237 W	278 W
3,000 MHz	188 W	252 W
4,000 MHz	157 W	237 W
2,500 MHz		210 W
3,000 MHz		188 W
4,000 MHz		157 W

Voltage

Non-UL Voltage Rating
300 V RMS

VSWR

Frequency [MHz]
5-2250 MHz

Electrical Characteristics Notes:	Actual Impedance specification is 51.5 +/- 2 ohms.
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Temperature Range

Non-UL Temp Rating:	80°C
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Operating Temp Range:	-40°C To +80°C
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Mechanical Characteristics

Bulk Cable Weight:	94 lbs/1000ft
Max Recommended Pulling Tension:	210 lbs
Min Bend Radius/Minor Axis:	3 in

Standards

RG Type:	8/U Type
RG / Series Type:	8/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
9913F7 B59100	Black, Matte	C
9913F7 B591000	Black, Matte	C
9913F7 B59250	Black, Matte	C
9913F7 B59500	Black, Matte	C

Footnote:	C - CRATE REEL PUT-UP.
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