



Product: [9913](#) 

Low Loss 50 Ohm, RG8, #10

Product Description

10 AWG solid .108" bare copper conductor, semi-solid polyethylene insulation, Duobond® II, tinned copper braid shield (90% coverage), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Low Loss RG-8 50 Ohm Wireless & Antenna
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	Solid	BC - Bare Copper	0.108 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Semi-Solid)	0.286 in

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.405 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
24.6 pF/ft

Inductance

Nominal Inductance
0.059 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.4 dB/100ft
10 MHz	0.5 dB/100ft
50 MHz	1 dB/100ft
100 MHz	1.4 dB/100ft
200 MHz	1.8 dB/100ft
400 MHz	2.6 dB/100ft
700 MHz	3.6 dB/100ft
900 MHz	4.1 dB/100ft
1000 MHz	4.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	84 %

Power Rating

Frequency [MHz]	Max. Power Rating [W]
5 MHz	4,021 W
10 MHz	3,217 W
50 MHz	1,609 W
100 MHz	1,149 W
200 MHz	894 W
400 MHz	619 W
700 MHz	447 W
900 MHz	393 W
1,000 MHz	366 W

Voltage

Non-UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	107 lbs/1000ft
Max Recommended Pulling Tension:	300 lbs
Min Bend Radius/Minor Axis:	4 in

Standards

CPR Euroclass:	Eca
RG Type:	8/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	89913
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
9913 010100	Black	Reel	100 ft	612825261636
9913 010250	Black	Reel	250 ft	612825261650
9913 010500	Black	Reel	500 ft	612825261667
9913 0101000	Black	Reel	1,000 ft	612825261643
9913 0105000	Black	Reel	5,000 ft	612825261711

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Recommend use of 7810R, 7810A, 9913F7, or 9914 for applications above 1 GHz.
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History

Update and Revision:	Revision Number: 0.286 Revision Date: 04-28-2020
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