

**Product:** [9914](#) 



50 Ohm Wireless Transmission Cable, RG8, 10 AWG, Solid BC, Foil + 95% TC Braid, PVC Jkt, CMG

## Product Description

50 Ohm Wireless Transmission Cable, RG8, 10 AWG, Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMG rated

## Technical Specifications

### Product Overview

Suitable Applications:	Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
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### Construction Details

RG Type:	8
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#### Conductor

AWG	Stranding	Nom. Diameter	Material
10	Solid	0.103 in	BC - Bare Copper

#### Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.285

#### Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

#### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.403 in

### Electrical Characteristics

#### VSWR

Frequency [MHz]	Max. VSWR
5-2250 MHz	1.43:1

#### Attenuation

Frequency	Nom. Attenuation [dB/100ft]
5 MHz	0.4 dB/100ft
10 MHz	0.5 dB/100ft
50 MHz	1.0 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

1500 MHz	5.5 dB/100ft
1800 MHz	6.1 dB/100ft
2000 MHz	6.5 dB/100ft
2500 MHz	7.5 dB/100ft
3000 MHz	8.3 dB/100ft
4000 MHz	9.9 dB/100ft

#### 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
1,000 MHz	366 W
1,500 MHz	293 W
2,000 MHz	248 W
2,500 MHz	215 W
3,000 MHz	194 W
4,000 MHz	163 W

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
1.0 Ohm/1000ft	1.3 Ohm/1000ft	24.8 pF/ft	50 Ohm	82%

#### Voltage

UL Voltage Rating	Non-UL Voltage Rating
30 V RMS (UL AWM Style 1354)	300 V RMS

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
60°C (UL AWM Style 1354)	-30°C to +75°C

#### Bend Radius

Installation Min.
4.0 in

Bulk Cable Weight:	101 lbs/1000ft
Max. Pull Tension:	194 lbs

### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	CMG
AWM Compliance:	1354
CEC / C(UL) Compliance:	CMG
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### History

Update and Revision:	Revision Number: 0.310 Revision Date: 06-19-2020
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