Product: 9913

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG Solid BC, Foil + 90% TC Braid, PVC Jkt

Product Description

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG Solid Bare Copper Conductor , PE Insulation, Foil + 90% Tinned Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)

Construction Details

RG Type:	8

Conductor

AWG	Stranding	Nom. Diameter	Material
10	Solid	0.108 in	BC - Bare Copper

Insulation

Material	Nom. Diameter	Notes
PE - Polyethylene (Semi-Solid)	0.285 in	Solid PE monofilament spiral around conductor. Solid PE tube over monofilament

Outer Shield Material

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	90%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.405 in

Electrical Characteristics

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

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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedence	Nom. Velocity
0.9 Ohm/1000ft	1.8 Ohm/1000ft	24.6 pF/ft	50 Ohm	84%

Voltage

Non-UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-30°C to +75°C

Bend Radius

Installation Min.
4.0 in

Bulk Cable Weight:	89 lbs/1000ft
Max. Pull Tension:	184 lbs

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	89913

Product Notes

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

History

Update and Revision:	Revision Number: 0.348 Revision Date: 09-30-2020