



Product: [8237](#) 

50 Ohm Wireless Transmission Coax, RG-8, 13 AWG Str BC, 95% BC Braid, PVC Jkt, CMH

Product Description

50 Ohm Wireless Transmission Coax, RG-8, 13 AWG (7x21) Bare Copper Conductor , PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, CMH

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)
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Construction Details

RG Type:	8
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Conductor

AWG	Stranding	Nom. Diameter	Material
13	7x21	0.085 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene	0.285 in

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.403 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.2 dB/100ft
10 MHz	0.6 dB/100ft
50 MHz	1.3 dB/100ft
100 MHz	1.9 dB/100ft
200 MHz	2.8 dB/100ft
400 MHz	4.2 dB/100ft
700 MHz	5.9 dB/100ft
900 MHz	6.9 dB/100ft
1000 MHz	7.4 dB/100ft
4000 MHz	23.2 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	1,200 W
100 MHz	800 W

400 MHz	320 W
1,000 MHz	180 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity
1.8 Ohm/1000ft	1.2 Ohm/1000ft	30.8 pF/ft	50 Ohm	66%

Voltage

UL Voltage Rating	Voltage Rating
300 V (CMH)	3700 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C to +75°C

Bend Radius

Installation Min.
4.0 in

Bulk Cable Weight:	102 lbs/1000ft
Max. Pull Tension:	147 lbs

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor
Sustainability:	CA Prop 65
NEC / UL Compliance:	CMX
CEC / C(UL) Compliance:	CMH
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.350 Revision Date: 10-13-2021
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