Product: 8240 ⬀

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid BC, 95% TC Braid, PVC Jkt, CMX

Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid Bare Copper Conductor , PE Insulation, 95% Tinned Copper Braid Shield, PVC Jacket, CMX

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:	58

Conductor

AWG	Stranding	Nom. Diameter	Material
20	Solid	0.033 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene	0.116 in

Outer Shield Material

Outer Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	95%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.193 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.3 dB/100ft
10 MHz	1.1 dB/100ft
50 MHz	2.5 dB/100ft
100 MHz	3.8 dB/100ft
200 MHz	5.6 dB/100ft
400 MHz	8.4 dB/100ft
700 MHz	11.7 dB/100ft
900 MHz	13.7 dB/100ft
1000 MHz	14.5 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	530 W
100 MHz	350 W
400 MHz	160 W

1,000 MHz	90 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedence	Nom. Velocity
9.4 Ohm/1000ft	4.1 Ohm/1000ft	28.5 pF/ft	52 Ohm	66%

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V (CMX), 30 V (UL AWM 1354)	1900 V

Electrical Characteristics Notes:	Actual Impedance specification is 51.5 +/- 1.5 ohms.

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
1.9 in

Bulk Cable Weight:	26 lbs/1000ft
Max. Pull Tension:	39 lbs

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1581
NEC / UL Compliance:	CMX
AWM Compliance:	1354
CEC / C(UL) Compliance:	CMX
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:	88240, 82240

History

Update and Revision:	Revision Number: 0.349 Revision Date: 09-30-2020