



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)
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Construction Details

RG Type:	58
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Conductor

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

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.116 in (2.95 mm)	White

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.193 in (4.90 mm)

Overall Cable Diameter (Nominal):	0.193 in (4.90 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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	Max. Power Rating
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. Characteristic Impedance	Nom. Velocity of Prop.
9.4 Ohm/1000ft	4.1 Ohm/1000ft (13 Ohm/km)	28.5 pF/ft (93.5 pF/m)	52 Ohm	66%

Voltage

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

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

Temperature

UL Temperature	Operating
60°C (UL AWM 1354)	-40°C to +75°C

Bend Radius

Installation Min.
1.9 in (48 mm)

Max. Pull Tension:	47 lbs (21 kg)
Bulk Cable Weight:	26 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor, Outdoor - Black only, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1581
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	CMX
AWM Compliance:	AWM 1354
CEC / C(UL) Compliance:	CMX
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	88240, 82240

History

Update and Revision:	Revision Number: 0.539 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8240 010100	Black	Reel	100 ft	612825196761	
8240 010500	Black	Reel	500 ft	612825196785	C
8240 010U500	Black	UnReel	500 ft	612825358664	
8240 0101000	Black	Reel	1,000 ft	612825196778	C
8240 010U1000	Black	UnReel	1,000 ft	612825196747	
8240 0105000	Black	Reel	5,000 ft	612825196730	C

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