



**Product:** [8219](#) 

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Str TC, 95% TC Braid, PVC Jkt, CM

### Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG (19x32) Tinned Copper Conductor , PE Insulation, 95% Tinned Copper Braid Shield, PVC Jacket, CM

### 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	19x32	0.037 in	TC - Tinned Copper

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.116 in (2.95 mm)

#### 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	0.4 dB/100ft
10 MHz	1.3 dB/100ft
50 MHz	3.1 dB/100ft
100 MHz	4.5 dB/100ft
200 MHz	6.6 dB/100ft
400 MHz	10.0 dB/100ft
700 MHz	14.2 dB/100ft
900 MHz	16.6 dB/100ft
1000 MHz	18.1 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
8.8 Ohm/1000ft (29 Ohm/km)	4.1 Ohm/1000ft (13 Ohm/km)	26.0 pF/ft (85.3 pF/m)	54 Ohm	76%

## Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 1354)

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
80°C	-30°C to +75°C

### Bend Radius

Installation Min.
1.9 in

Max. Pull Tension:	50 lbs (23 kg)
Bulk Cable Weight:	26 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, UN ECE R118.02
NEC / UL Compliance:	CM
AWM Compliance:	1354
CEC / C(UL) Compliance:	CM
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)
Other Standard Compliance(s):	P-MSHA-SC-182/5

## History

Update and Revision:	Revision Number: 0.362 Revision Date: 12-15-2021
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### Variants

Item #	Color	Putup Type	Length	UPC
8219 010500	Black	Reel	500 ft	612825196341
8219 010U500	Black	UnReel	500 ft	612825357605
8219 0101000	Black	Reel	1,000 ft	612825196372
8219 010U1000	Black	UnReel	1,000 ft	612825196358
8219 009U500	White	UnReel	500 ft	612825196365
8219 0091000	White	Reel	1,000 ft	612825196327

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