



**Product:** [9258](#)

50 Ohm Wireless Transmission Coax, RG-8, 16 AWG Str BC, 95% BC Braid, PVC Jkt, CM

### Product Description

50 Ohm Wireless Transmission Coax, RG-8X, 16 AWG (19x29) Bare Copper Conductor , PE Insulation, 95% Bare 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:	8X
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#### Conductor

AWG	Stranding	Nom. Diameter	Material
16	19x29	0.057 in	BC - Bare Copper

#### Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.155 in

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.242 in

#### Electrical Characteristics

##### Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.3 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	2.1 dB/100ft
100 MHz	3.1 dB/100ft
200 MHz	4.5 dB/100ft
400 MHz	6.6 dB/100ft
700 MHz	9.1 dB/100ft
900 MHz	10.7 dB/100ft
1000 MHz	11.2 dB/100ft

##### Power Rating

Frequency [MHz]	Max. Power Rating [W]
10 MHz	1,000 W
50 MHz	370 W
100 MHz	250 W

200 MHz	190 W
400 MHz	110 W
700 MHz	75 W
1,000 MHz	60 W

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
4.1 Ohm/1000ft	3.1 Ohm/1000ft	24.8 pF/ft	50 Ohm	82%

#### Voltage

UL Voltage Rating
300 V (CM)

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Installation Min.
2.4 in

Bulk Cable Weight:	36 lbs/1000ft
Max. Pull Tension:	61 lbs

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading
NEC / UL Compliance:	CM
AWM Compliance:	1354
CEC / C(UL) Compliance:	CM
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)

## History

Update and Revision:	Revision Number: 0.332 Revision Date: 09-30-2020
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