

Product: [9258](#) 

50 Ohm, RG8, 16 AWG, CM PVC Jacket



### Product Description

50 Ohm, RG-8X type, 16 AWG stranded (19x29) .058" bare copper conductor, gas-injected FPE insulation, bare copper braid shield (95% coverage), CM PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
16	19x29	BC - Bare Copper	0.058 in	1

Conductor Count:	1
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##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.155 in

Insulation, Table Note:	Gas Injected
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##### Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
4.3 Ohm/1000ft	3.3 Ohm/1000ft	3.3 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
24.8 pF/ft

##### Inductance

Nominal Inductance
0.065 $\mu$ H/ft

##### Impedance

Nominal Characteristic Impedance
50 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	82 %

#### 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

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

UL Temp Rating:	80°C (UL AWM Style 1354)
Operating Temp Range:	-40°C To +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max Recommended Pulling Tension:	75 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 1354 (30 V 80°C)
CPR Euroclass:	Eca
RG Type:	8/X Type

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
9258 010500	Black	Reel	500 ft	612825225805
9258 010U500	Black	UnReel	500 ft	612825358886
9258 0101000	Black	Reel	1,000 ft	612825225836
9258 010U1000	Black	UnReel	1,000 ft	612825225812
9258 0091000	White	Reel	1,000 ft	612825225829

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.274 Revision Date: 04-28-2020
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