




Product: [8214](#) 

50 Ohm, RG8, 11 AWG, CM

Product Description

RG-8/U type, 11 AWG stranded (7x19) .108" bare copper conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
11	7x19	BC - Bare Copper	0.108 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.285 in

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.403 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
1.2 Ohm/1000ft	1.2 Ohm/1000ft		1.1 Ohm/1000ft	1.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
26 pF/ft

Inductance

Nominal Inductance
0.065 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.1 dB/100ft
10 MHz	0.5 dB/100ft

50 MHz	1.2 dB/100ft
100 MHz	1.7 dB/100ft
200 MHz	2.6 dB/100ft
400 MHz	3.9 dB/100ft
700 MHz	5.6 dB/100ft
900 MHz	6.5 dB/100ft
1000 MHz	7 dB/100ft
4000 MHz	21.5 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	4.2 dB/100ft

Voltage

Non-UL Voltage Rating	UL Voltage Rating
300 V RMS	300 V RMS
	30 V RMS (UL AWM Style 1354)

Electrical Characteristics Notes:	30 V RMS: UL AWM Style 1354
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Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	107 lbs/1000ft
Max Recommended Pulling Tension:	230 lbs
Min Bend Radius/Minor Axis:	4 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/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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):	2005-10-13
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

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
8214 010100	Black	Reel	100 ft	612825196228
8214 010500	Black	Reel	500 ft	612825358015
8214 0101000	Black	Reel	1,000 ft	612825196235

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.299 Revision Date: 04-28-2020
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