



Part Number: 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**

Product Overview  Environmental Space:				Indoor/Outdoor	
Physical Characteristics (Overall)					
onduct	tor				
AWG :	Stranding	Material	Nominal Diameter	No. of Coax	
11 :	7x19	BC - Bare Copper	0.108 in	1	
Conductor Count:		1			
Conductor Size:		11 AWG			
Insulation					
Material Nominal Diameter					
FPE - Foamed Polyethylene 0.285 in					

# Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.403 in

### **Electrical Characteristics**

Braid BC - Bare Copper 95 %

#### **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



### 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
10 MHz	
50 MHz	
100 MHz	
200 MHz	
400 MHz	
700 MHz	
900 MHz	
1000 MHz	
4000 MHz	

#### 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

### **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:	СМ
CEC/C(UL) Specification:	СМ
UL AWM Style:	UL Style 1354 (30 V 80°C)
CPR Euroclass:	Eca
RG Type:	8/U Type

## **Applicable Environmental and Other Programs**

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
CA Prop 65 (CJ for Wire & Cable):	Yes

MII Order #39 (	China F	RoHS):	Yes
Suitability			
Suitability - Aer	ial:		Yes
Suitability - Inde	oor:		Yes
Suitability - Out	door:		Yes
Flammability, LS0H, Toxicity Testing			
UL voltage ratio	ng:		300 V RMS
Plenum/Non-Plenum			
Plenum (Y/N):			No
Part Number			
Variants			
Item #	Color	Footnote	
8214 010100	Black	С	
8214 0101000	Black	С	
8214 010500	Black	С	

#### © 2018 Belden, Inc

Footnote:

#### All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

C - CRATE REEL PUT-UP.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.