

## 8214 Coax - RG-8/U Type

For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	11	7x19	BC - Bare Copper	.108

Total Number of Conductors: 1

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.285

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.403 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	107 lbs/1000 ft.
Max. Recommended Pulling Tension:	230 lbs.
Min. Bend Radius/Minor Axis:	4 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 1354 (30 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	8/U

### Suitability

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

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
50

### Nom. Inductance:

Inductance (µH/ft)
.065

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26

### Nominal Velocity of Propagation:

VP (%)
78

### Nominal Delay:

Delay (ns/ft)
1.3

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.2

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.1

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.1
10	.5
50	1.2
100	1.7
200	2.6
400	3.9
700	5.6
900	6.5
1000	7.0
4000	21.5

### Max. Operating Voltage - UL:

Voltage
300 V RMS
30 V RMS (UL AWM Style 1354)

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
300 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8214 010100	100 FT	13.700 LB	BLACK	C	RG-8/U TYPE COAX
8214 0101000	1,000 FT	116.000 LB	BLACK	C	RG-8/U TYPE COAX
8214 010500	500 FT	58.500 LB	BLACK	C	RG-8/U TYPE COAX

**Notes:**

C = CRATE REEL PUT-UP.

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