

## 8233A Coax - RG-11/U Type

For more Information  
please call

1-800-Belden1

**General Description:**

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper double shields (95% and 80% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BC - Bare Copper	.064

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.285

**Inner Shield****Inner Shield Material:**

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

**Inner Jacket****Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.365

**Outer Shield****Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	80

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.475 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 125 lbs/1000 ft.

Max. Recommended Pulling Tension: 170 lbs.

Min. Bend Radius/Minor Axis: 4.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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):	01/01/2004
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:	11/U

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)
75

### Nom. Inductance:

Inductance (μH/ft)
0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.1

### Nominal Velocity of Propagation:

VP (%)
84

### Nominal Delay:

Delay (ns/ft)
1.20

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.5

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.6

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.4

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.2
3.6	.3
10	.4
71.5	1.1
135	1.5
270	2.3
360	2.7
540	3.5
720	4.2
750	4.3
1000	5.2
1500	7.1
2250	9.6
3000	12.0

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	21.000
850.000	4500.000	15.000

**Sweep Test**

**Sweep Testing:** 100% Sweep tested 5 MHz to 4.5 GHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8233A 0101000	1,000 FT	133.000 LB	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC
8233A 0102000	2,000 FT	266.000 LB	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC
8233A 0104000	4,000 FT	572.000 LB	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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