

For more Information  
please call

1-800-Belden1



## Description:

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

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	14	Solid	BC - Bare Copper	1.6256

### Insulation

#### Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	7.239

### 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. (mm)
PE - Polyethylene	9.271

### Outer Shield

#### Outer Shield Material:

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

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

### Overall Cable

Overall Nominal Diameter: 12.065 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 166.678 Kg/Km

Max. Recommended Pulling Tension: 756.194 N

Min. Bend Radius (Install)/Minor Axis: 254 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes, when supported by a messenger wire
Suitability - Burial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance ( $\mu\text{H}/\text{m}$ )

0.318257

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

52.8241

### Nominal Velocity of Propagation:

VP (%)

84

### Nominal Delay:

Delay (ns/m)

3.9372

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.2496

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.5934

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	0.6562
3.6	0.9843
10	1.3124
71.5	3.6091
135	4.9215
270	7.5463
360	8.8587

## METRIC MEASUREMENT VERSION

## 8233 Coax - RG-11/U Type

540	11.4835
720	13.7802
750	14.1083
1000	17.0612
1500	23.2951
2250	31.4976
3000	39.372

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

Voltage
300 V RMS

### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	850	21
851	3000	15

### Sweep Test

**Sweep Testing:** 100% Sweep tested 5 MHz to 3 GHz.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8233 0101000	305 MT	53.978 KG	BLACK	C	RG-11/U TYPE TRIAX
8233 0102000	610 MT	108.863 KG	BLACK	C	RG-11/U TYPE TRIAX
8233 010500	152 MT	28.576 KG	BLACK	C	RG-11/U TYPE TRIAX

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 04-06-2009

© 2012 Belden, Inc  
All Rights Reserved.

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

Belden provides the information and specifications herein on an "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.