

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

8233 Coax - RG-11/U Type



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% and 80% coverage), polyethylene 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.)
PE - Polyethylene	.365

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: 0.475 in.

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 112 lbs/1000 ft.

Max. Recommended Pulling Tension: 170 lbs.

Min. Bend Radius/Minor Axis: 5 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μ H/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

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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 - 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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8233 0101000	1,000 FT	119.000 LB	BLACK	C	RG-11/U TYPE TRIAX
8233 0102000	2,000 FT	240.000 LB	BLACK	C	RG-11/U TYPE TRIAX
8233 010500	500 FT	63.000 LB	BLACK	C	RG-11/U TYPE TRIAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-22-2012

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