

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
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Nom. Inductance:

Inductance (µH/ft)	0.097
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Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)	16.1
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Nominal Velocity of Propagation:

VP (%)	84
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Nominal Delay:

Delay (ns/ft)	1.20
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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	2.600
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Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	1.700
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Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	1.500
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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.140
3.600	0.300
10.000	0.400
71.500	1.100
135.000	1.600
270.000	2.300
360.000	2.600
540.000	3.300
720.000	3.800
750.000	4.000
1000.000	4.600
1500.000	5.900
2250.000	7.400
3000.000	9.000
4500.000	12.500

Max. Operating Voltage - UL:

Voltage	300 V RMS
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Minimum Return Loss:

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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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#37; 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.

Revision Number: 5 Revision Date: 06-26-2013

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