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1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors: 1

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)
PVC - Polyvinyl Chloride	9.271

Outer Shield

Outer Shield Material:

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

Outer Shield Flooding Grease: CoreGuard®

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
CPE

Overall Cable

Overall Nominal Diameter: 12.065 mm

Mechanical Characteristics (Overall)

Storage Temperature Range: -30°C To +90°C

Installation Temperature Range: -20°C To +75°C

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 193.466 Kg/Km

Max. Recommended Pulling Tension: 1067.568 N

Min. Bend Radius/Minor Axis: 120.650 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	08/11/11
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	11/U
Series Type:	11/U

Flame Test

UL Flame Test:	UL1581 Vertical Tray
CSA Flame Test:	FT1

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	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/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:

METRIC MEASUREMENT VERSION

8233WB Triax - RG-11/U Type

DCR @ 20°C (Ohm/km)

8.531

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.578

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.922

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.459
3.600	0.984
10.000	1.312
71.500	3.609
135.000	5.250
270.000	7.546
360.000	8.531
540.000	10.827
720.000	12.468
750.000	13.124
1000.000	15.093
1500.000	19.358
2250.000	24.279
3000.000	29.529
4500.000	41.013

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
8233WB 0101000	1,000 FT	139.000 LB	BLACK		#14PE/GIFHDLDPPE BRD PVCBRD CPE
8233WB 0102000	2,000 FT	278.000 LB	BLACK		#14PE/GIFHDLDPPE BRD PVCBRD CPE
8233WB 0103000	3,000 FT	435.000 LB	BLACK		#14PE/GIFHDLDPPE BRD PVCBRD CPE
8233WB 0104000	4,000 FT	588.000 LB	BLACK		#14PE/GIFHDLDPPE BRD PVCBRD CPE

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