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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. (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 Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 12.065 mm

### 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: 186.025 Kg/Km

Max. Recommended Pulling Tension: 756.194 N

Min. Bend Radius/Minor Axis: 120.650 mm

## 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/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)
8.531

### 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
8233A 0101000	305 MT	60.328 KG	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC
8233A 0102000	610 MT	120.656 KG	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC
8233A 0104000	1,219 MT	259.456 KG	BLACK	C	#14 GIFHDPE/PE BRD PVC BRD PVC

## Notes:

C = CRATE REEL PUT-UP.

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