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1-800-Belden1



## General Description:

14 AWG solid .064" bare copper conductor, foam FEP insulation, bare copper double shields (95% and 90% coverage), PVDF jackets.

## 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.)
FFEP - Foam Fluorinated Ethylene Propylene	0.285

### 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.)
PVDF - Fluorocopolymer	0.350

### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	80.000

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

### Overall Cable

Overall Nominal Diameter: 0.408 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +125°C

Bulk Cable Weight: 131 lbs/1000 ft.

Max. Recommended Pulling Tension: 170 lbs.

Min. Bend Radius/Minor Axis: 4.250 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	8233A

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
75

**Nom. Inductance:**

**Inductance (µH/ft)**  
0.097

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**  
16.500

**Nominal Velocity of Propagation:**

**VP (%)**  
80.000

**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.)
1.000	0.090
3.600	0.280
10.000	0.470
71.500	1.330
135.000	1.900
270.000	2.940
360.000	3.420
540.000	4.460
720.000	5.410
750.000	5.510
1000.000	6.740
1500.000	9.030
2000.000	11.300
2250.000	12.540
3000.000	17.000
4000.000	27.450

**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&#37; Sweep tested 5 MHz to 4.5 GHz.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8233P 0101000	1,000 FT	138.000 LB	BLACK		#14 FFEP BRD SLF BRD SLF
8233P 010500	500 FT	73.000 LB	BLACK		#14 FFEP BRD SLF BRD SLF

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