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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. (mm)
1	14	Solid	BC - Bare Copper	1.6256

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FFEP - Foam Fluorinated Ethylene Propylene	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)
PVDF - Fluorocopolymer	8.890

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: 10.363 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 194.954 Kg/Km

Max. Recommended Pulling Tension: 756.194 N

Min. Bend Radius/Minor Axis: 107.950 mm

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/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

54.137

Nominal Velocity of Propagation:

VP (%)

80.000

Nominal Delay:

Delay (ns/m)

3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.2496

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.5934

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1.000	0.295
3.600	0.919
10.000	1.542
71.500	4.364
135.000	6.234

270.000	9.646
360.000	11.221
540.000	14.633
720.000	17.750
750.000	18.078
1000.000	22.114
1500.000	29.627
2000.000	37.075
2250.000	41.144
3000.000	55.777
4000.000	90.063

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
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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