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1-800-Belden1



### General Description:

Series 11, 14 AWG solid .064" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® III + aluminum braid shield (77% coverage), PVC jacket.

### Usage (Overall)

Suitable Applications: CATV

### Physical Characteristics (Overall)

#### Conductor

AWG:

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

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	7.112

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)	Description
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100.000	
2		Braid	AL - Aluminum	77.000	
3		Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000	Bonded to Jacket

Outer Shield Flooding Grease: Coreguard®

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Messenger

Messenger Diameter: 1.829 mm

Messenger Material: Galvanized Steel

#### Overall Cable

Overall Nominal Diameter: 10.160 x 14.732 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 125.009 Kg/Km

Max. Recommended Pulling Tension: 978.604 N

Min. Bend Radius/Minor Axis: 114.300 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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
Series Type:	Series 11
<b>Suitability</b>	
Suitability - Aerial:	Yes
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

**Nom. Inductance:**

Inductance (µH/m)
3.18257

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
53.1522

**Nominal Velocity of Propagation:**

VP (%)
83

**Nominal Delay:**

Delay (ns/m)
3.9372

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
36.091

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
13.124

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
5	1.24678
55	3.18257
211	5.93861
270	6.72605
300	7.05415
350	7.61192
400	8.10407
450	8.69465
550	9.64614
750	11.4835
870	12.599
1000	13.8786

**Max. Operating Voltage - Non-UL:**

Voltage
300 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

## Notes (Overall)

**Notes:** Sweep tested 5 MHz to 1 GHz.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7983BM 0101000	1,000 FT	88.000 LB	BLACK		#14 GIFHDLDPPE SH FS PVC W/MSGR

## METRIC MEASUREMENT VERSION

7983BM Coax - CATV Cable

Revision Number: 0    Revision Date: 02-20-2012

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