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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.

## 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 (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	77
3		Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

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: 9.982 x 14.554 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

### Suitability

Suitability - Aerial:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

#### Impedance (Ohm)

75.000

### 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
7983A 0101000	1,000 FT	88.000 LB	BLACK	C	#14 GIFHDLPE SH FS PVC/MSGR

**Notes:**

C = CRATE REEL PUT-UP.

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