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1-800-Belden1



### General Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II plus an aluminum braid shield (60% coverage), LSZH jacket.

### Usage (Overall)

**Suitable Applications:** Coaxial Cable for Communication, Audio, Video, CATV, MATV, Broadband, or Broadcast use in Marine Shipboard and Offshore use

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

**Total Number of Conductors:** 1

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

#### 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	60

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
LSZH - Low Smoke Zero Halogen

#### Overall Cable

**Overall Nominal Diameter:** 6.960 mm

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -30°C To +75°C

**Bulk Cable Weight:** 41.670 Kg/Km

**Max. Recommended Pulling Tension:** 560.473 N

**Min. Bend Radius/Minor Axis:** 69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMG-LS

**CEC/C(UL) Specification:** CMG-LS

**EU Directive 2011/65/EU (ROHS II):** Yes

**IEEE Specification:** Std. 45 clause 23

EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	08/01/2005
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
Other Specification:	UL444, ABS Type Approval Certificate 05-HS500072C
Series Type:	Series 6

### Flame Test

UL Flame Test:	UL1685 FT4 Loading, Limited Smoke
CSA Flame Test:	FT4
IEC Flame Test:	60332-1, 60332-3-22 (Category A)
IEEE Flame Test:	1202

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75.000

#### Nom. Inductance:

Inductance (µH/m)

0.318257

#### 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)

91.868

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

29.529

#### Max. Attenuation:

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

5	2.19827
55	5.2496
211	9.41647
270	10.6304
300	11.2538

## METRIC MEASUREMENT VERSION

## 9116SB Coax - Shipboard CATV Cable

350	12.2053
400	13.124
450	13.9771
550	15.4535
750	18.3408
870	19.686
1000	21.4577
1450	27.2323
1800	30.5133
2250	34.7786
3000	39.0439

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	1000	20
1000	2250	15
2250	3000	10

### Sweep Test

**Sweep Testing:** 5 MHz - 3 GHz

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116SB 0101000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDP SH FRNHPO

#### Notes:

C = CRATE REEL PUT-UP.

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