

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9116SB Coax - Shipboard CATV Cable



For more Information  
please call

1-800-Belden1



## 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
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## Physical Characteristics (Overall)

### Conductor

#### AWG:

#	Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid		BCCS - Bare Copper Covered Steel	.040

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

### 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 Cabling

Overall Nominal Diameter:	0.274 in.
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## Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
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Bulk Cable Weight:	28.400 lbs/1000 ft.
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Max. Recommended Pulling Tension:	126 lbs.
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Min. Bend Radius (Install)/Minor Axis:	3 in.
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## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG-LS
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CEC/C(UL) Specification:	CMG-LS
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IEEE Specification:	Std. 45 clause 23
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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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
C(UL) Flame Test:	FT4, Limited Smoke
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)	Tolerance (Ohms)
75	± 3

Nom. Inductance:

Inductance (μH/ft)
.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/ft)
1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
28.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.67
55	1.60
211	2.87
270	3.24
300	3.43
350	3.72
400	4.00
450	4.26

550	4.71
750	5.59
870	6.00
1000	6.54
1450	8.30
1800	9.30
2250	10.60
3000	11.90

**Max. Operating Voltage - UL:**

<b>Voltage</b>
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**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116SB 0101000	1,000 FT	31.000 LB	BLACK	C	#18 GIFHLDPE SH FRNHPO

**Notes:**

C = CRATE REEL PUT-UP.

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