

Part Number: 9116SB



CATV Video, RG6, #18 Solid BCCS, Foil + 60% Braid, LSZH Jacket, CMG-LS, ABS Type Approved

Product 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.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
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	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1

Conductor Count:	1
AWG Size:	18

Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.18 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		60 %

Outer Jacket Material

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen	0.274 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	28 Ohm/1000ft		9 Ohm/1000ft	9 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Inductance

Nominal Inductance
0.097 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-1000 MHz	20 dB
1000-2250 MHz	15 dB
2250-3000 MHz	10 dB

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.67 dB/100ft
55 MHz	1.6 dB/100ft
211 MHz	2.87 dB/100ft
270 MHz	3.24 dB/100ft
300 MHz	3.43 dB/100ft
350 MHz	3.72 dB/100ft
400 MHz	4 dB/100ft
450 MHz	4.26 dB/100ft
550 MHz	4.71 dB/100ft
750 MHz	5.59 dB/100ft
870 MHz	6 dB/100ft
1000 MHz	6.54 dB/100ft
1450 MHz	8.3 dB/100ft
1800 MHz	9.3 dB/100ft
2250 MHz	10.6 dB/100ft
3000 MHz	11.9 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-30°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Specification:	CMG-LS
CEC/C(UL) Specification:	CMG-LS
IEEE Specification:	Std. 45 clause 23
Series Type:	Series 6
Other Specification:	UL444, ABS Type Approval Certificate 05-HS500072C

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading, Limited Smoke
CSA Flammability:	FT4
ISO/IEC Flammability:	60332-1^60332-3-22 (Category A)
IEEE Flammability:	1202

Part Number

Plenum (Y/N):	No
Plenum Number:	9116P
Footnote:	C - CRATE REEL PUT-UP.

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