

Product: 9116SB

75 Ohm SDI Coax, RG-6, 18 AWG Solid BCCS, Foil + 60% AL Braid, LSZH Jkt, CMG-LS, ABS Certified

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor Covered Steel, PE Insulation, Foil + 60% Aluminum Braid Shield, LSZH Jacket, CMG-LS, Shipboard ABS Type Approved

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, HD-SDI 1080p, ABS approved for marine shipboard and offshore use

Construction Details

Series Type:	6

Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	0.04 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.18 in (4.6 mm)	White

Table Notes:	Gas Injected

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		57%

Outer Jacket

Material	Nom. Diameter
PO - Polyolefin	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal):	0.274 in (6.96 mm)

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Structural Return Loss
5-1000 MHz	20 dB
1000-2250 MHz	15 dB
2250-3000 MHz	10 dB

Attenuation

Frequency	Max. 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
5500 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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
28 Ohm/1000ft (92 Ohm/km)	9 Ohm/1000ft (30 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
2.75 in (69.9 mm)	2.75 in (69.9 mm)

Max. Pull Tension:	126 lbs (57.2 kg)
Bulk Cable Weight:	28 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, Limited Smoke, FT4, 1202, IEC 60332-1-2, IEC 60332-3-22
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMG-LS
CEC / C(UL) Compliance:	CMG-LS
IEEE Compliance:	Std. 45 clause 23
Marine Compliance:	ABS Type Approval Certificate 19-HS1852547-PDA
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ABS Type Approval Certificate 19-HS1852547

History

Update and Revision:	Revision Number: 0.491 Revision Date: 05-03-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
9116SB 0101000	Black	Reel	1,000 ft	612825224556

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