



Product: [1306SB](#)

Composite Shipboard, 18 AWG Coax Video, 1 PR 18 AWG Power

Product Description

Composite Shipboard, 18 AWG Coax BC, BC Braid Shield 95% coverage, FPE insulation for video and 1 PR 18 AWG BC, stranded (7x26), PP insulation for power, overall CMG-LS rating, LSZH jacket.

Technical Specifications

Product Overview

Suitable Applications:	Surveillance, CCTV Camera, PTZ (Pan-Tilt-Zoom), Shipboard, Low Smoke
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Coax
18	Solid	BC - Bare Copper	0.04 in		1
18	7x26	BC - Bare Copper	0.046 in	2	

Conductor Count:	3
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in
PP - Polypropylene	0.058 in

Color Chart

Number	Color
1	Black and Red

Inner Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Bare Copper (BC)	95%

Outer Jacket

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.275x0.514 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	6.4 Ohm/1000ft		3.1 Ohm/1000ft	3.1 Ohm/1000ft
6.4 Ohm/1000ft				

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
24 pF/ft	16.3 pF/ft

Operating Voltage:	300 V RMS
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Inductance

Nominal Inductance
0.097 μ H/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
5 MHz	0.45 dB/100ft
10 MHz	0.64 dB/100ft
50 MHz	1.46 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3.0 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	5.8 dB/100ft
900 MHz	6.7 dB/100ft
1000 MHz	7.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82%

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Bulk Cable Weight:	67 lbs/1000ft
Max. Pull Tension:	114 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG-LS
CEC/C(UL) Compliance:	CMG-ST1
CPR Euroclass:	Fca
IEEE Compliance:	Std. 45 Clause 23
RG Type:	6
Other Specification:	UL444, ABS Type Approval Certificate 15-VS1420030

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only
Suitability - Sunlight Resistance:	No

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading, Limited Smoke
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2, IEC 60332-3-22
IEEE Flammability:	IEEE 1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1306SB 010500	Black	Reel	500 ft	612825111238
1306SB 0101000	Black	Reel	1,000 ft	612825111221

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Coax jacket diameter: .275 in, Pair jacket diameter: .204 in
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History

Update and Revision:	Revision Number: 0.305 Revision Date: 05-05-2023
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