



**Product:** [1694SB](#)

75 Ohm SDI Coax, RG-6, 18 AWG Solid BC, Foil + 95% TC Braid, LSZH Jkt, CMG-LS, ABS Certified

### Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper 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
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#### Construction Details

RG Type:	6
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#### Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.180 in (4.57 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

#### Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal):	0.274 in (6.96 mm)
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#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.24 dB/100ft
3.58 MHz	0.44 dB/100ft
5 MHz	0.52 dB/100ft
7 MHz	0.61 dB/100ft
10 MHz	0.71 dB/100ft
67.5 MHz	1.65 dB/100ft
71.5 MHz	1.69 dB/100ft

88.5 MHz	1.86 dB/100ft
100 MHz	1.95 dB/100ft
135 MHz	2.24 dB/100ft
143 MHz	2.3 dB/100ft
180 MHz	2.57 dB/100ft
270 MHz	3.17 dB/100ft
360 MHz	3.69 dB/100ft
540 MHz	4.6 dB/100ft
720 MHz	5.38 dB/100ft
750 MHz	5.5 dB/100ft
1000 MHz	6.42 dB/100ft
1500 MHz	7.99 dB/100ft
2000 MHz	9.37 dB/100ft
2250 MHz	10.01 dB/100ft
3000 MHz	11.78 dB/100ft
4500 MHz	14.92 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft	2.8 Ohm/1000ft (9.2 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	82%

#### Voltage

UL Voltage Rating
300 V (CMG)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-30°C to +75°C

#### Bend Radius

Installation Min.
2.75 in (69.9 mm)

Max. Pull Tension:	69 lbs (31 kg)
Bulk Cable Weight:	42 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Sunlight Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, Limited Smoke, 1202, IEC 60332-1-2, IEC 60332-3-22
CPR Compliance:	CPR Euroclass: Dca-s1,d1,a1
NEC / UL Compliance:	CMG-LS
CEC / C(UL) Compliance:	CMG-ST1
IEEE Compliance:	Std. 45 clause 23
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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: 0.500 Revision Date: 04-24-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
1694SB 0101000	Black	Reel	1,000 ft	612825120964

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