Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1694SB Coax - Shipboard Precision Video Cable - Analog/Digital Application





For more Information please call

1-800-Belden1



General Description:

18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (95% coverage), LSZH jacket.

Usage (Overall)	
Suitable Applications:	Coaxial Cable for Communication, Audio, Video, CCTV, CATV, MATV, Broadband, or Broadcast use in Marine Shipboard and Offshore use
Physical Characteristics (Overall)	
Conductor AWG:	
# Coax AWG Stranding Conductor Material Dia. (in.)	
1 18 Solid BC - Bare Copper .040	
Total Number of Conductors:	1
Insulation	
Insulation Material:	
Insulation Material Dia. Gas-injected FHDPE - Foam High Density Polyethylene .180	. (in.)
Outer Shield	
Outer Shield Material:	
Layer # Outer Shield Trade Name Type Outer Shield Mat	
1 Duofoil® Tape Aluminum Foil-Pc 2 Braid TC - Tinned Copp	per 95
Outer Jacket Outer Jacket Material:	
Outer Jacket Material	
LSZH - Low Smoke Zero Halogen	
Overall Cable	
Overall Nominal Diameter:	0.274 in.
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	42 lbs/1000 ft.
Max. Recommended Pulling Tension:	69 lbs.
Min. Bend Radius/Minor Axis:	2.750 in.
Applicable Specifications and Agency Complian	ice (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMG-LS
CEC/C(UL) Specification:	CMG-LS
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	Std. 45 clause 23
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
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

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MII Order	#39 (China RoHS):	Yes			
Other Spe	cification:	UL444, ABS Type Approval Certificate 05-HS500072C			
RG Type:		6/U			
lame Test					
UL Flame	Test:	UL1685 FT4 Loading, Limited Smoke			
CSA Flam	e Test:	FT4			
IEC Flame Test:		60332-1, 60332-3-22 (Category A)			
IEEE Flam	e Test:	1202			
uitability					
Suitability - Indoor:		Yes			
Suitability - Outdoor:		Yes			

75 Nom. Inductance: Inductance (µH/ft)

0.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:

VP (%) 82

Nominal Delay:

Delay (ns/ft)

1.24

Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft)

6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.8

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1.000	0.240
3.580	0.440
5.000	0.520
7.000	0.610
10.000	0.710
67.500	1.650
71.500	1.690
88.500	1.860
100.000	1.950
135.000	2.240
143.000	2.300
180.000	2.570
270.000	3.170
360.000	3.690
540.000	4.600
720.000	5.380
750.000	5.500
1000.000	6.420
1500.000	7.990
2000.000	9.370
2250.000	10.010
3000.000	11.780
4500.000	14.920



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Max Operating Voltage III

on 2 using a 75 Ohm fixed bridge
JI 2 Using a 73 Onin fixed bildge
ing a 75 Ohm fixed bridge and

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694SB 0101000	1,000 FT	46.000 LB	BLACK	С	#18 PE/GIFHDPE SH FRNHPO

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 09-24-2012

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