





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

   	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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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.

SUITABLE APPLICATIONS:

Suitable Applications	Coaxial Cable for Communication, Audio, Video, CCTV, CATV, MATV, Broadband, or Broadcast use in Marine Shipboard and Offshore use
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.180 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Shield % Coverage	100 %
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OUTER JACKET:

Outer Jacket Material	LSZH - Low Smoke Zero Halogen
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.274 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
Bulk Cable Weight	42.9 lbs/1000 ft.
Max. Recommended Pulling Tension	69 lbs.
Min. Bend Radius (Install)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG-LS
CEC/C(UL) Specification	CMG-LS
IEEE Specification	Std. 45 clause 23
IEC Specification	60092-376 clause 17, 60092-351, 60754-1, 60754-2, 61034
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	08/01/2005
Other Specification	UL444

FLAME TEST:

UL Flame Test	UL1685 FT4 Loading, Limited Smoke
CSA Flame Test	FT4, Limited Smoke
IEC Flame Test	60332-3-22 (Category A), 60332-1
IEEE Flame Test	1202

SWEEP TEST:

Sweep Testing	100% Sweep tested 5 MHz to 4.5 GHz.
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SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Sunlight Resistance	Yes

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.106 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	2.8 Ohms/1000 ft
Minimum Return Loss :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	1600	23
		1600	4500	21

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.24
	3.58			0.45
	5			0.54
	7			0.63
	10			0.72
	67.5			1.57
	71.5			1.60
	88.5			1.75
	100			1.84
	135			2.10
	143			2.16
	180			2.42
	270			2.97
	360			3.43
	540			4.25
	720			4.95
	750			5.00
	1000			5.89
	1500			7.33
	2000			8.57
	2250			9.14
	3000			10.67
	4500			13.29

Max. Operating Voltage - UL	300 V RMS
Other Electrical Characteristic 1	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms
Other Electrical Characteristic 2	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1694SB 0101000	#18 PE/GIFHDPE SH FRNHPO	1000	46	BLACK	C

C = CRATE REEL PUT-UP.

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