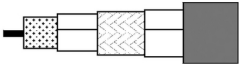




Product: [1694DNH](#)



1694DNH - 75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Tri-Shield, LSZH-C Jkt

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 80% Tinned Copper Braid + Foil Shield, LSZH Jacket, Dca. IEC 60332-3-24.

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The outer conductor is designed for high screening attenuation and low transfer impedance; The cable is UV-resistant and suitable for indoor and outdoor use
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Construction Details

RG Type:	6
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.02 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	4.57 mm (0.180 in)

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	80%
3	Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

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

Table Notes:	According to EN 50290-2-20
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Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

Table Notes:	In each frequency band, 1 peak value up to 4 dB lower is allowed
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Attenuation

Frequency	Nom. Attenuation
1 MHz	0.8 dB/100m
3.6 MHz	1.5 dB/100m
10 MHz	2.4 dB/100m
71.5 MHz	5.6 dB/100m

135 MHz	7.4 dB/100m
270 MHz	10.4 dB/100m
360 MHz	12.1 dB/100m
540 MHz	14.8 dB/100m
720 MHz	17.5 dB/100m
750 MHz	17.9 dB/100m
1000 MHz	20.7 dB/100m
1500 MHz	25.6 dB/100m
2250 MHz	32.2 dB/100m
3000 MHz	37.7 dB/100m
4500 MHz	47.6 dB/100m
6000 MHz	58.1 dB/100m

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
21 Ohm/km	11 Ohm/km (3.4 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

Transfer Impedance

Max. Transfer Impedance
Max. 2.5 mOhm/m

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	95 dB
1000 - 2000 MHz	
2000 - 3000 MHz	
3000 - 4500 MHz	

Screening Class:	A+
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Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

Bend Radius

Stationary Min.
70 mm (2.8 in)

Max. Pull Tension:	300 N (67 lbf)
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Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24, CEI 20-22-3
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.299 Revision Date: 02-28-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1694DNH.02500	Gray	Reel	500 m	8719605003843
1694DNH.00500	Purple	Reel	500 m	8719605003829

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