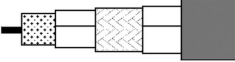


Product: [1694DNH](#) 



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
------------------------	---

Construction Details

RG Type:	6
----------	---

Conductor

Number of Element	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			

Outer Jacket

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

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

Electrical Characteristics

Return Loss (RL)

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

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

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+
------------------	----

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)
--------------------	----------------

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2 and 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

History

Update and Revision:	Revision Number: 0.222 Revision Date: 05-10-2022
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1694DNH.02500	Gray	Reel	500 m	8719605003843
1694DNH.01500	Green	Reel	500 m	8719605003836
1694DNH.00500	Purple	Reel	500 m	8719605003829

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.