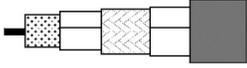


Product: [1794DNH](#) 

COAX RG7/U LSZH-C HDTV PRECISION VIDEO



Product Description

COAX [1.3/5.7] RG7/U LSZH-C HDTV CLASSICS PRO

Technical Specifications

Product Overview

Suitable Applications:	Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The outer conductor is designed for high screening attenuation and low transfer impedance; The cable is suitable for indoor and outdoor use
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
16	Solid	BC - Bare Copper	1.295 mm	0.03 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	5.715 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Alum / Poly / Alum		2 mm		
Braid	2	Tinned Copper (TC)	80%		6.6 mm	5%
Tape	3	Alum / Poly		2 mm		

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen flame retardant	8.13 mm	0.2 mm

Table Notes:	According to EN 50290-2-20
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Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
13.2 Ohm/km	9.2 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
53 pF/m	2 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance

75 Ohm	3 Ohm
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.56 dB/100m
3.6 MHz	1 dB/100m
10 MHz	1.6 dB/100m
71.5 MHz	4.1 dB/100m
135 MHz	5.6 dB/100m
270 MHz	8 dB/100m
360 MHz	9.3 dB/100m
540 MHz	11.5 dB/100m
720 MHz	13.4 dB/100m
750 MHz	13.7 dB/100m
1000 MHz	16.1 dB/100m
1500 MHz	20.1 dB/100m
2000 MHz	23.6 dB/100m
2250 MHz	25.2 dB/100m
3000 MHz	29.8 dB/100m
4500 MHz	37.8 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/ft	84%	2%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
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

Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	95 dB
1000 - 2000 MHz	85 dB
2000 - 3000 MHz	75 dB
3000 - 4500 MHz	65 dB

Screening Class: A+

Transfer Impedance

Transfer Impedance
Max. 2.5 mOhm/m

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

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

Mechanical Characteristics

Max. Pull Tension:	500 N
Min Bend Radius (W/o Pulling Strength):	80 mm

Standards

CPR Euroclass:	Dca-s2,d2,a1
CENELEC Compliance:	EN 50117-1
RG Type:	7/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	2011-12-27

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
1794DNH.04500	Green	Reel	500 m	8719605004079
1794DNH.01500	Purple	Reel	500 m	8719605004062

History

Update and Revision:	Revision Number: 0.179 Revision Date: 06-24-2020
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