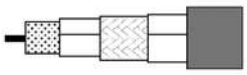
Part Number: 1505DNH

COAX RG59/U LSZH HDTV PRECISION VIDEO



Product Description

COAX [0.8/3.7] RG59/U LSZH HDTV CLASSICS PRO

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
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

Physical Characteristics (Overall)

Conductor

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	0.81 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	3.68 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	80 %		4.4 mm	5 %
Tape, (L-folded) bonded to sheath	3	Aluminum/Polyester		2 mm		

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	5.92 mm	0.2 mm

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
32 Ohm/km	12 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1 dB/100m
3.6 MHz	2 dB/100m
10 MHz	3 dB/100m
71.5 MHz	6.9 dB/100m
135 MHz	8.9 dB/100m
270 MHz	12.5 dB/100m
360 MHz	14.4 dB/100m
540 MHz	18.1 dB/100m
720 MHz	21.0 dB/100m
750 MHz	21.3 dB/100m
1000 MHz	24.9 dB/100m
1500 MHz	31.2 dB/100m
2250 MHz	39.0 dB/100m
3000 MHz	45.9 dB/100m
4500 MHz	57.4 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/ft	83 %	2 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

High Freq Table Note:	In each frequency band, 1 peak value up to 4 dB lower is allowed

Screening

Frequency [MHz]	Min. Screening Attenuation
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 Recommended Pulling Tension:	200 N
Min Bend Radius (W/o Pulling Strength):	60 mm

Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50117-1
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
1505DNH.03500	Black	500 m
1505DNH.04500	Green	500 m
1505DNH.00500	Purple	500 m
1505DNH.02500	Yellow	500 m

History

Revision Number:	3

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