



Part Number: 1505ANH

COAX RG59/U LSZH-C HDTV PRECISION VIDEO

Product Description

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

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Cca
Suitable Applications:	Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The cable is UV-resistant and 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	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	95 %		4.4 mm	5 %

Outer Jacket Material

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

OuterJacket1, Table Note:	According to European Standard HD 624
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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
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

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

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
6000 MHz	69.2 dB/100m

Delay

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

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:	Cca-s1a,d1,a1
GENELEC Compliance:	EN 50117-1
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
LOI of Jacket:	Min. 35 %
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
1505ANH.00100	Black
1505ANH.001000	Black
1505ANH.00305	Black
1505ANH.00500	Black
1505ANH.041000	Blue
1505ANH.04500	Blue
1505ANH.02100	Green
1505ANH.021000	Green
1505ANH.02305	Green
1505ANH.02500	Green
1505ANH.011000	Purple
1505ANH.011220	Purple
1505ANH.01305	Purple
1505ANH.01500	Purple
1505ANH.051000	Red
1505ANH.031000	Yellow
1505ANH.03305	Yellow

History

Revision Number:	3
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