



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

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

Conductor Count:	1
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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
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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
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
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Flammability, LS0H, 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	Length
1505ANH.00100	Black	100 m
1505ANH.001000	Black	1,000 m
1505ANH.00305	Black	305 m
1505ANH.00500	Black	500 m
1505ANH.K0305	Black	305 m
1505ANH.041000	Blue	1,000 m
1505ANH.04500	Blue	500 m
1505ANH.K41000	Blue	1,000 m
1505ANH.02100	Green	100 m
1505ANH.021000	Green	1,000 m
1505ANH.02305	Green	305 m
1505ANH.02500	Green	500 m
1505ANH.011000	Purple	1,000 m
1505ANH.011220	Purple	1,220 m
1505ANH.01305	Purple	305 m
1505ANH.01500	Purple	500 m
1505ANH.051000	Red	1,000 m
1505ANH.031000	Yellow	1,000 m
1505ANH.03305	Yellow	305 m

History

Update and Revision:	Revision Number: 0.167 Revision Date: 08-22-2019
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