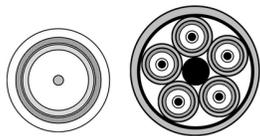


**Part Number: 1505EN5**



**5xCOAX RG59/U LSZH-C HDTV PRECISION VIDEO**

## Product Description

5xCOAX [0.8/3.7] RG59/U LSZH-C HDTV CLASSICS PRO

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass Eca
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	5

Conductor Count:	5
Conductor Size:	20 AWG

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Gas injected PE - Polyethylene	3.68 mm	0.15 mm

#### Inner Shield Material

Element	Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
	Foil	1	Aluminium / Polyester / Aluminium		2 mm		
Braid		2	Annealed tinned copper	95 %		4.4 mm	5 %

#### Inner Jacket Material

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

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	18.8 mm	0.4 mm

### Construction and Dimensions

#### Cabling

Description	Filler
5 coax + Central filler + a non-woven foil	yes

### Electrical Characteristics

#### Conductor DCR

Inner Conductor DCR	Outer Conductor 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

Return Loss Table Note: Max. 3 peak values 3 dB lower than specified

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/100m	83 %	2 %

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	1.0 dB/100m
3.6 MHz	2.0 dB/100m
10 MHz	3.0 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 dB/100m
750 MHz	21.3 dB/100m
1000 MHz	24.9 dB/100m
1500 MHz	30.5 dB/100m
2250 MHz	38 dB/100m
3000 MHz	44 dB/100m
4500 MHz	53.8 dB/100m

#### Voltage

Voltage Test Dielectric
2.0 kV DC

#### Temperature Range

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

#### Mechanical Characteristics

Max Recommended Pulling Tension:	200 N
Min Bend Radius (W/o Pulling Strength):	190 mm

#### Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1
RG Type:	59/U Type

#### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2015-03-20
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#### Flammability, LS0H, Toxicity Testing

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

#### Part Number

## Variants

Item #	Color
1505EN5.00150	Black

## History

Revision Number:	1
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