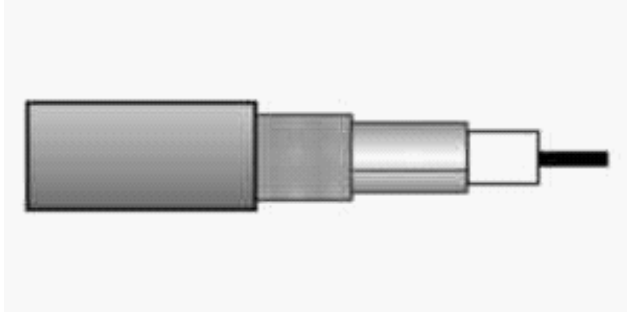


**Part Number:** 70081NH.00100

COAX RG59/U LSZH HDTV PRECISION VIDEO



## Product Description

COAX [0.8/3.7] RG59/U LSZH HDTV EASY CONNECT PRO

## Technical Specifications

<b>Suitable Applications:</b>	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; Use of 1080p/50 applications
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## Construction and Dimensions

### Conductor:

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance
Solid	Bare copper	0.81 in	0.03 mm

### Insulation:

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

### Outershield 1:

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum / Polyester / Aluminum		2 mm		
Braid	2	Tinned copper	80 %		4.4 mm	5 %

### Outerjacket 1:

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

<b>Min Elongation at Break of Jacket:</b>	125 %
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<b>Min Tensile Strength of Jacket:</b>	9 MPa
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## Electrical Characteristics

### Conductor DCR:

Max. Conductor DCR	Max. Shield DCR
32 Ohm/km	12 Ohm/km

### Capacitance:

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

Min Insulation Resistance:	10000 MOhm*km
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### Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

### High Frequency (Nominal/Typical):

Element	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 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

Max. attenuation 10% higher

### Delay:

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

### High Freq:

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

## Voltage:

Voltage Test Dielectric
2 kV DC

## Use

Max Recommended Pulling Tension:	200 N
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## Safety

ISO/IEC Flammability:	IEC 60332-1-2
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## Temperature Range

Installation Temp Range:	-5 to +50 °C
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Operating Temp Range:	-30 to +70 °C
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Storage Temp Range:	-30 to +70 °C
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## Mechanical Characteristics

Min Bend Radius (Wo Pulling Strength):	60 mm
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## Standards

Other Specification:	SDTV/HDTV
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CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
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## History

Revision Number:	1
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## Product Variants

Part Number	Color	Put-Up Type	Length
70081NH.00100	GREEN	Reel	100 m
70081NH.00305	GREEN	Reel	305 m
70081NH.00500	GREEN	Reel	500 m
70081NH.01500	PURPLE	Reel	500 m
70081NH.02305	RED	Reel	305 m
70081NH.03305	ORANGE	Reel	305 m
70081NH.04305	YELLOW	Reel	305 m
70081NH.00100	BLUE	Reel	1000 m
70081NH.06305	BLUE	Reel	305 m
70081NH.09305	WHITE	Reel	305 m
70081NH.10305	BLACK	Reel	305 m
70081NH.10500	BLACK	Reel	500 m
70081NH.00100			

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