



**Product:** [70081CH](#) 

## COAX RG59/U LSZH-C HDTV PRECISION VIDEO

### Product Description

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

### Technical Specifications

#### Product Overview

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; Use of 1080p/50 applications
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#### 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	PE - Polyethylene (Foam)	3.68 mm	0.15 mm

##### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	2 mm		
Braid	2	Tinned Copper (TC)	80%		4.4 mm	5%

##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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

Max. Conductor DCR	Max. 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 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

Table Notes: 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
2.0 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. Pull Tension:	200 N
Min Bend Radius (W/o Pulling Strength):	60 mm

### Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	59
Other Compliance:	SDTV/HDTV

### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	2013-10-14

### Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

## Part Number

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### Variants

Item #	Color	Putup Type	Length	EAN
70081CH.00100	Green	Reel	100 m	8719605011107
70081CH.00500	Green	Reel	500 m	8719605011114
70081CH.01305	Purple	Reel	305 m	8719605011121
70081CH.03100	Yellow	Reel	100 m	8719605011138
70081CH.03500	Yellow	Reel	500 m	8719605011145

### History

Update and Revision:	Revision Number: 0.186 Revision Date: 12-17-2020
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