Product: [70080CH](#) ↗

COAX MINI RG59/U LSZH-C HDTV PRECISION VIDEO

Product Description

COAX [0.6/2.8] MINI RG59/U LSZH-C HDTV EASY CONNECT PRO

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
22	Solid	BC - Bare Copper	0.65 mm	0.02 mm	1
Conductor Count:			1		

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	2.9 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	80 %		3.45 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	4.6 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
55 Ohm/km	20 Ohm/km

Capacitance

Nom. Capacitance
53 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.7 dB/100m
3.6 MHz	2.5 dB/100m
10 MHz	3.7 dB/100m
71.5 MHz	8.6 dB/100m
135 MHz	11.5 dB/100m
270 MHz	16.1 dB/100m
360 MHz	18.6 dB/100m
540 MHz	22.8 dB/100m
720 MHz	26.4 dB/100m
750 MHz	26.9 dB/100m
1000 MHz	31.3 dB/100m
1500 MHz	38.7 dB/100m
2250 MHz	48 dB/100m
3000 MHz	56.1 dB/100m
4000 MHz	65.7 dB/100m
4500 MHz	70.2 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
400 ns/ft	84 %

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 Recommended Pulling Tension:	160 N
Min Bend Radius (W/o Pulling Strength):	45 mm

Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	Mini 59/U Type
Other Specification:	SDTV/HDTV

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2013-10-21

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	Length
70080CH.06305	Blue	305 m
70080CH.00100	Green	100 m

70080CH.00305	Green	305 m
70080CH.00500	Green	500 m
70080CH.01305	Purple	305 m
70080CH.02305	Red	305 m
70080CH.03100	Yellow	100 m
70080CH.03500	Yellow	500 m

History

Update and Revision:	Revision Number: 0.165 Revision Date: 01-31-2020