

Part Number: 1855ENH

COAX MINI RG59/U LSZH DIGITAL VIDEO

Product Description

COAX [0.6/2.8] MINI RG59/U LSZH CLASSICS PRO

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
Suitable Applications:	Low loss HDTV/SDI Digital coax used in critical analog and digital video circuits and high quality applications such as live broadcast in network studios and pre- or post-production facilities; Cable is suitable for indoor and outdoor use

Physical Characteristics (Overall)

Conductor

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

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	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	90 %		3.45 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	4.45 mm	0.2 mm

OuterJacket1, Table Note:	According to EN 50290-2-20

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	17 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	1.7 dB/100m
3.6 MHz	2.5 dB/100m
5 MHz	2.8 dB/100m
6 MHz	3 dB/100m
7 MHz	3.2 dB/100m
10 MHz	3.7 dB/100m
12 MHz	4 dB/100m
25 MHz	5.4 dB/100m
67.5 MHz	8.3 dB/100m
71.5 MHz	8.6 dB/100m
88.5 MHz	9.5 dB/100m
100 MHz	10 dB/100m
135 MHz	11.5 dB/100m
143 MHz	11.9 dB/100m
180 MHz	13.2 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
2000 MHz	45 dB/100m
2250 MHz	48 dB/100m
2500 MHz	50.8 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) [%]	Velocity of Propagation Tolerance
400 ns/ft	84 %	2 %

High Freq

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

Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	85 dB
1000 - 2000 MHz	85 dB
2000 - 3000 MHz	85 dB
3000 - 4500 MHz	80 dB

Screening Class:	B

Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	Max. 15 mOhm/m

Voltage

Voltage Rating [V]
50 V AC
75 V 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-s1,d1,a1
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	Mini 59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Other Flammability:	CEI 20-35/1
LOI of Jacket:	Min. 35 %
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
1855ENH.08500	Black
1855ENH.58305	Black
1855ENH.071000	Blue
1855ENH.07500	Blue
1855ENH.17100	Blue
1855ENH.03500	Cream
1855ENH.13100	Cream
1855ENH.04500	Gray
1855ENH.14100	Gray
1855ENH.001000	Green
1855ENH.002000	Green
1855ENH.00500	Green
1855ENH.10100	Green
1855ENH.004200	Green
1855ENH.004444	Green
1855ENH.009999	Green
1855ENH.06500	Orange
1855ENH.02500	Turquoise
1855ENH.12100	Turquoise
1855ENH.024200	Turquoise
1855ENH.05500	Violet
1855ENH.15100	Violet
1855ENH.054200	Violet
1855ENH.051000	Violet
1855ENH.01500	White
1855ENH.091000	Yellow, RAL 1021
1855ENH.09500	Yellow, RAL 1021

History

Revision Number:	10

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