



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	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
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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
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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
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and 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	Length
1855ENH.08500	Black	500 m
1855ENH.58305	Black	305 m
1855ENH.085000	Black	5,000 m
1855ENH.071000	Blue	1,000 m
1855ENH.07500	Blue	500 m
1855ENH.17100	Blue	100 m
1855ENH.075000	Blue	5,000 m
1855ENH.185000	Brown	5,000 m
1855ENH.03500	Cream	500 m
1855ENH.13100	Cream	100 m
1855ENH.04500	Gray	500 m
1855ENH.14100	Gray	100 m
1855ENH.045000	Gray	5,000 m
1855ENH.001000	Green	1,000 m
1855ENH.002000	Green	2,000 m
1855ENH.00500	Green	500 m
1855ENH.10100	Green	100 m
1855ENH.004200	Green	4,200 m
1855ENH.004444	Green	1,000 m
1855ENH.009999	Green	499 m
1855ENH.005000	Green	5,000 m
1855ENH.06500	Orange	500 m
1855ENH.065000	Orange	5,000 m
1855ENH.195000	Red	5,000 m
1855ENH.02500	Turquoise	500 m
1855ENH.12100	Turquoise	100 m
1855ENH.024200	Turquoise	4,200 m
1855ENH.05500	Violet	500 m
1855ENH.15100	Violet	100 m
1855ENH.054200	Violet	4,200 m
1855ENH.K5500	Violet	500 m
1855ENH.051000	Violet	1,000 m
1855ENH.055000	Violet	5,000 m
1855ENH.01500	White	500 m
1855ENH.015000	White	5,000 m

1855ENH.091000	Yellow	1,000 m
1855ENH.09500	Yellow	500 m
1855ENH.095000	Yellow	5,000 m

History

Update and Revision:	Revision Number: 0.165 Revision Date: 08-22-2019
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