



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
------------------	---

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 60332-1-2 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
----------------------	--

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.