



**Product:** [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

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

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	PE - Polyethylene (Foam)	2.9 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)	90%		3.45 mm	5%

##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.45 mm	0.2 mm

Table Notes: 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

Min Insulation Resistance: 10000 MOhm\*km

##### 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. Pull 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

## Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor - Euroclass Dca
----------------------	--------------------------------

## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-35/1
LOI of Jacket:	Min. 35 %
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
1855ENH.58305	Black	Reel	305 m	8719605004444
1855ENH.08500	Black	Reel	500 m	8719605004352
1855ENH.085000	Black	Reel	5,000 m	8719605177278
1855ENH.17100	Blue	Reel	100 m	8719605004437
1855ENH.07500	Blue	Reel	500 m	8719605004345
1855ENH.071000	Blue	Reel	1,000 m	8719605004338
1855ENH.075000	Blue	Reel	5,000 m	8719605177261
1855ENH.185000	Brown	Reel	5,000 m	8719605177292
1855ENH.13100	Cream	Reel	100 m	8719605004406
1855ENH.03500	Cream	Reel	500 m	8719605004277
1855ENH.14100	Gray	Reel	100 m	8719605004413
1855ENH.04500	Gray	Reel	500 m	8719605004284
1855ENH.045000	Gray	Reel	5,000 m	8719605177230
1855ENH.10100	Green	Reel	100 m	8719605004383
1855ENH.00500	Green	Reel	500 m	8719605004222
1855ENH.001000	Green	Reel	1,000 m	8719605004185
1855ENH.002000	Green	Reel	2,000 m	8719605004192
1855ENH.004200	Green	Reel	4,200 m	8719605004208
1855ENH.005000	Green	Reel	5,000 m	8719605177216
1855ENH.06500	Orange	Reel	500 m	8719605004321
1855ENH.065000	Orange	Reel	5,000 m	8719605177254
1855ENH.195000	Red	Reel	5,000 m	8719605177308
1855ENH.12100	Turquoise	Reel	100 m	8719605004390
1855ENH.02500	Turquoise	Reel	500 m	8719605004260
1855ENH.024200	Turquoise	Reel	4,200 m	8719605004253
1855ENH.15100	Violet	Reel	100 m	8719605004420
1855ENH.05500	Violet	Reel	500 m	8719605004314
1855ENH.051000	Violet	Reel	1,000 m	8719605004291
1855ENH.054200	Violet	Reel	4,200 m	8719605004307
1855ENH.055000	Violet	Reel	5,000 m	8719605177247
1855ENH.01500	White	Reel	500 m	8719605004246
1855ENH.015000	White	Reel	5,000 m	8719605177223

1855ENH.09500	Yellow	Reel	500 m	8719605004376
1855ENH.091000	Yellow	Reel	1,000 m	8719605004369
1855ENH.095000	Yellow	Reel	5,000 m	8719605177285

## History

Update and Revision:	Revision Number: 0.202 Revision Date: 07-12-2021
----------------------	--

© 2021 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.