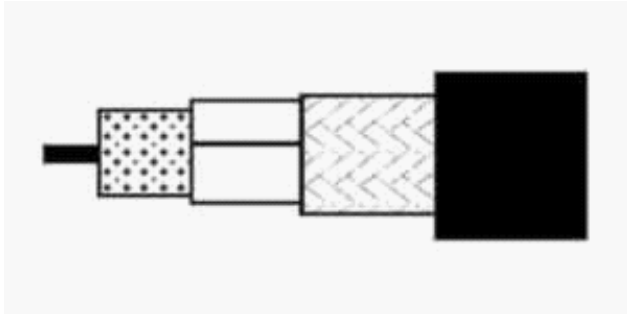


Part Number: 1855ENH.001000

COAX RG59/U FRNC/LSZH DIGITAL VIDEO



Product Description

COAX RG59/U FRNC/LSZH DIGITAL VIDEO

Technical Specifications

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.
------------------------	---

Construction and Dimensions

Conductor:

Element	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance
	Solid	Bare copper	0.65 in	0.02 mm

Insulation:

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

Outershield 1:

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Aluminum / Polyester / Aluminum		2 mm		
Braid	2	Tinned copper	90 %		3.45 mm	5 %

Outerjacket 1:

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

According to EN 50290-2-20

Min Elongation at Break of 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]	Norm. 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

Voltage:

Voltage Rating [V]
50 V AC V
75 V DC V

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

Transfer Impedance:

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

Use

Max Recommended Pulling Tension:	160 N
----------------------------------	-------

Safety

ISO/IEC Flammability:	IEC 60332-3-24
Other Flammability:	CEI 20-35/1
LOI of Jacket:	Min. 35 %

Temperature Range

Installation Temp Range:	-5 to +50 °C
Operating Temp Range:	-30 to +70 °C
Storage Temp Range:	-30 to +70 °C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	45 mm
---	-------

Standards

GENELEC Compliance:	EN 50117-1 and EN 50290-2-20
---------------------	------------------------------

History

Revision Number:	10
------------------	----

Product Variants

Part Number	Color	Put-Up Type	Length
1855ENH+07500	BLUE	Reel	500 m
1855ENH+09500	YELLOW	Reel	500 m
1855ENH.001000	GREEN	Reel	1000 m
1855ENH.002000	GREEN	Reel	2000 m
1855ENH.004200	GREEN	Reel	4200 m
1855ENH.001000	GREEN	Reel	1000 m
1855ENH.00500	GREEN	Reel	500 m
1855ENH.001000	GREEN	Reel	499 m
1855ENH.01500	WHITE	Reel	500 m
1855ENH.024200	TURQUOISE	Reel	4200 m
1855ENH.02500	TURQUOISE	Reel	500 m
1855ENH.03500	CREAM	Reel	500 m
1855ENH.04500	GRAY	Reel	500 m
1855ENH.001000	VIOLET	Reel	1000 m
1855ENH.054200	VIOLET	Reel	4200 m
1855ENH.05500	VIOLET	Reel	500 m
1855ENH.06500	ORANGE	Reel	500 m
1855ENH.071000	BLUE	Reel	1000 m
1855ENH.07500	BLUE	Reel	500 m
1855ENH.08500	BLACK	Reel	500 m
1855ENH.091000	YELLOW, RAL 1021	Reel	1000 m
1855ENH.09500	YELLOW, RAL 1021	Reel	500 m
1855ENH.10100	GREEN	Reel	100 m
1855ENH.12100	TURQUOISE	Reel	100 m
1855ENH.13100	CREAM	Reel	100 m
1855ENH.14100	GRAY	Reel	100 m
1855ENH.15100	VIOLET	Reel	100 m
1855ENH.17100	BLUE	Reel	100 m
1855ENH.58305	BLACK	Reel	305 m
1855ENH.K5500	VIOLET	Reel	500 m
1855ENH.001000			

© 2017 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.