



Product: [1855ENH](#)

75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid BC, Foil + 90% TC Braid, LSZH Jkt

Product Description

75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 90% Tinned Copper Braid Shield, LSZH Jacket, Dca. IEC 60332-1-2.

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHD TV, HD-SDI 1080p; Cable is UV-resistant and suitable for indoor and outdoor use
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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
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	2.9 mm	0.15 mm

Outer Shield

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	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
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Construction and Dimensions

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
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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 Frequency

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:

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:

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
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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 61034-2 - Smoke Density Min. Transmittance:	60%

Part Number

Variants

Item #	Color	Put-Up 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:

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