



Product: [4855ELW](#)

4K UHD Coax for 12G-SDI, 75 Ohm, Mini RG-59, 21.5 AWG Solid SC, Foil + 95% TC Braid, LSZH Jkt

Product Description
75 Ohm SDI Coax, Mini RG-59, 21.5 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, LSZH Jacket

Technical Specifications

Product Overview

Suitable Applications:	Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, HD-SDI 1080p
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Construction Details

RG Type:	Mini 59
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Conductor

Size	Stranding	Nom. Diameter	Material
21.5 AWG	Solid	0.026 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.114 in (2.90 mm)

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.176 in (4.47 mm)

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 12000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.34 dB/100ft
3.58 MHz	0.58 dB/100ft
5 MHz	0.67 dB/100ft
6 MHz	0.75 dB/100ft
7 MHz	0.79 dB/100ft
10 MHz	0.94 dB/100ft
12 MHz	1.04 dB/100ft
25 MHz	1.45 dB/100ft

55 MHz	2.15 dB/100ft
67.5 MHz	2.40 dB/100ft
71.5 MHz	2.46 dB/100ft
88.5 MHz	2.74 dB/100ft
100 MHz	2.92 dB/100ft
135 MHz	3.39 dB/100ft
143 MHz	3.49 dB/100ft
180 MHz	3.91 dB/100ft
270 MHz	4.81 dB/100ft
360 MHz	5.55 dB/100ft
540 MHz	6.81 dB/100ft
720 MHz	7.87 dB/100ft
750 MHz	8.04 dB/100ft
1000 MHz	9.30 dB/100ft
1500 MHz	11.45 dB/100ft
2000 MHz	13.29 dB/100ft
2250 MHz	14.13 dB/100ft
3000 MHz	16.47 dB/100ft
4500 MHz	20.63 dB/100ft
6000 MHz	24.08 dB/100ft
12000 MHz	36.58 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
18.5 Ohm/1000ft (60.7 Ohm/km)	3.8 Ohm/1000ft (12 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	82%

Voltage

Voltage Rating
300 V (RMS)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C to +75°C

Bend Radius

Installation Min.
1.7 in (43 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	17 lbs/1000ft (25 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Cca, Indoor, Aerial - Black only, When supported by messenger wire
CPR Compliance:	CPR Euroclass: Cca-s1,d1,a1
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.42 Revision Date: 07-11-2023
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