



**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)	4.6 mm (0.18 in)

### 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
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: 0.257 Revision Date: 04-03-2025
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
4855ELW.08500	Black	Reel	500 m	8719605225771
4855ELW.07500	Blue	Reel	500 m	8719605225269
4855ELW.00500	Green	Reel	500 m	8719605224248
4855ELW.02500	Turquoise	reel	500 m	8719605228314
4855ELW.05500	Violet	reel	500 m	8719605228321

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