Product: 1855ELW

1855ELW - 75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid BC, Foil + 90% TC Braid, LSZH Jkt, CPR: Cca

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, Cca.

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use

Construction Details

RG Type:	Mini 59

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	22 AWG	Solid	0.65 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	2.9 mm (0.11 in)

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	90%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.6 mm

Table Notes:	According to EN 50290-2-20

Electrical Characteristics

Return Loss (RL)

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

Attenuation

Frequency	Nom. Attenuation
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

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
55 Ohm/km (17 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

Transfer Impedance

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

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	85 dB
1000 - 2000 MHz	
2000 - 3000 MHz	
3000 - 4500 MHz	

Screening Class:	B

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

Max. Pull Tension:	160 N (36 lbf)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Cca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1a,d1,a1; CPR UKCA Class: Cca-s1a,d1,a1
CENELEC Compliance:	EN 50117-1EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.33 Revision Date: 03-30-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1855ELW.08500	Black	Reel	500 m	8719605203847

1855ELW.17100	Blue	Reel	100 m	8719605203878
1855ELW.07500	Blue	Reel	500 m	8719605203830
1855ELW.071000	Blue	Reel	1,000 m	8719605203823
1855ELW.03500	Cream	Reel	500 m	8719605203786
1855ELW.10100	Green	Reel	100 m	8719605203861
1855ELW.00500	Green	Reel	500 m	8719605202574
1855ELW.001000	Green	Reel	1,000 m	8719605202567
1855ELW.06500	Orange	Reel	500 m	8719605203816
1855ELW.05500	Violet	Reel	500 m	8719605203809
1855ELW.051000	Violet	Reel	1,000 m	8719605203793
1855ELW.09500	Yellow	Reel	500 m	8719605203854

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