

Product: 1694ELW

1694ELW - 75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Foil + 95% TC Braid, LSZH Jkt, CPR: Cca

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% 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:	6

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.02 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	4.57 mm (0.180 in)

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.96 mm

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.8 dB/100m
3.6 MHz	1.5 dB/100m
10 MHz	2.4 dB/100m
71.5 MHz	5.6 dB/100m
135 MHz	7.4 dB/100m
270 MHz	10.4 dB/100m
360 MHz	12.1 dB/100m
540 MHz	14.8 dB/100m

720 MHz	17.5 dB/100m
750 MHz	17.9 dB/100m
1000 MHz	20.7 dB/100m
1500 MHz	25.6 dB/100m
2250 MHz	32.2 dB/100m
3000 MHz	37.7 dB/100m
4500 MHz	47.6 dB/100m
6000 MHz	58.1 dB/100m

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
21 Ohm/km	9.2 Ohm/km (2.8 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	82%

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
70 mm (2.8 in)

Max. Pull Tension:	300 N (67 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
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 80%
CENELEC Compliance:	EN 50117-1
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: 0.107 Revision Date: 02-28-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1694ELW.00305	Black	Reel	305 m	8719605202598
1694ELW.00500	Black	Reel	500 m	8719605202604
1694ELW.001000	Black	Reel	1,000 m	8719605202581
1694ELW.01100	Green	Reel	100 m	8719605203694
1694ELW.01500	Green	Reel	500 m	8719605202628
1694ELW.011000	Green	Reel	1,000 m	8719605202611
1694ELW.05500	Purple	Reel	500 m	8719605202642
1694ELW.051000	Purple	Reel	1,000 m	8719605202635
1694ELW.06500	Turquoise	Reel	500 m	8719605214270
1694ELW.061000	Turquoise	Reel	1,000 m	8719605214263

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