

12GHz Ultra High Definition 4710 Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter[®]

Event[®] install

Event[®] studio



Application

Event[®] Series UHD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly. Silver plated tri-shield construction for extended 12GHz installations.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for UHD TV and optimising transmission distance.

- 12G-SDI SMPTE2082-1 4K Cinema UHD TV-1, UHD TV-2
- 6G-SDI SMPTE2081-1 4K Cinema UHD TV-1, UHD TV-2

Cable Design

Conductor	Solid Silver plated copper wire : 1 x 1,00 mm
Dielectric	Gas injected Polyethylene - physical foam Ø 4,60 ± 0,1 mm
Screen 1	Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2	Tinned copper braid, 96 ± 3% coverage
Outer Jacket.....	LSZH FireFighter [®] IEC 60332-3-24
Colour	See specification table



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Characteristics

- Flame Retardant acc. to IEC 60332-3-24
- Halogen Free acc. to IEC 60754
- Smoke Density acc. to IEC 61034
- CPR classification : Dca-S1,d0,a1
- -40° C to +80° C Temperature Range
- Min. Bending Radius : 5 x Ø single, 10 x Ø repeated

Electrical Data

Characteristic Impedance	75	± 3 Ω
Screening Factor	≥ 100	dB
Velocity Propagation	84	%
D.C.R Inner Conductor	22,5	Ω/km
D.C.R Braid	8,3	Ω/km
Mutual Capacitance	53	pF/m
Return Loss 30-470 MHz	> 29	dB
Return Loss 470-862 MHz	> 27	dB
Return Loss 862-2150 MHz	> 24	dB
Return Loss 2150-3000 MHz	> 21	dB
Return Loss 3000-4500 MHz	> 20	dB
Return Loss 4500-6000 MHz	> 15	dB
Return Loss 6000-12000 MHz	> 13	dB
Tension Sheath Spaking Test	4,5	kV

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Frequency	Attenuation	Frequency	Attenuation
5 MHz	1.40 dB/100m	750 MHz	16.10 dB/100m
71.5 MHz	4.90 dB/100m	1000 MHz	19.20 dB/100m
88,5 MHz	5.30 dB/100m	1500 MHz	24.2 dB/100m
135 MHz	6.60 dB/100m	3000 MHz	36.2 dB/100m
180 MHz	7.80 dB/100m	6000 MHz	50.6 dB/100m
360 MHz	10.9 dB/100m	12000 MHz	75.5 dB/100m

4710 Maximum Transmission Distance Calculated - Metres

SMPTE ST 259				SMPTE ST 292	SMPTE ST 424	SMPTE ST		
143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	1.5 Gb/s	3.0 Gb/s	425.4 3 Gb/s	2081-1 6 Gb/s	2082-1 12 Gb/s
Composite NTSC	Composite PAL	Comp. 4:3 SD-SDI	Widescreen 16:9 SD-SDI	HD-SDI 1080i 1.5G-SDI	HDSDI 1080p 3G-SDI	UHDTV-1 UHD TV2		
612	566	455	385	124	83	165	110	79

Specification

Cross Section	Part Number	Overall Diameter [mm]	Colour	Weight [kg/km]	Connector	Tooling
	4710	6,95 ± 0,10	Black	63.2	ES-4108-12G	TL 1021 HD