

4K Ultra High Definition

4716T Tri-Shield Silver Plated Serial Digital Video Cable 75 Ohm LSZH FireFighter[®]

Event[®] install

Event[®] studio



Application

Event[®] Series UHD Tri-Shield 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 UHDTV and optimising transmission distance.

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

Cable Design

Conductor	Solid Silver plated copper wire : 1 x 1,67 ± 0,01 mm
Dielectric	Gas injected Polyethylene - physical foam Ø 7,11 ± 0,1 mm
Screen 1	Aluminium/Polyester/Aluminium bonded to dielectric
Screen 2	Tinned copper braid, 96 ± 3% coverage
Screen 3	Aluminium/Polyester/Aluminium bonded to outer jacket
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 : 80 mm

Electrical Data

Characteristic Impedance	75	± 1 Ω
Screening Factor	≥ 100	dB
Velocity Propagation	84	%
D.C.R Inner Conductor	8,5	Ω/km
D.C.R Braid	4,9	Ω/km
Mutual Capacitance	51	pF/m
Return Loss 5-1600 MHz	> 23	dB
Return Loss 1600-4500 MHz	> 21	dB
Return Loss 4500-12000 MHz	> 15	dB
Tension Sheath Spaking Test	6,0	kV

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Frequency	Attenuation	Frequency	Attenuation
1 MHz	0.52 dB/100m	1000 MHz	12.76 dB/100m
5 MHz	1.11 dB/100m	1500 MHz	15.84 dB/100m
71.5 MHz	3.51 dB/100m	2250 MHz	19.75 dB/100m
135 MHz	4.62 dB/100m	3000 MHz	23.19 dB/100m
360 MHz	7.4 dB/100m	6000 MHz	34.28 dB/100m
540 MHz	9.22 dB/100m	12000 MHz	53.80 dB/100m
750 MHz	11.0 dB/100m	-	-

4716T 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		
938	882	714	612	182	129	258	184	117

Specification

Cross Section	Part Number	Overall Diameter [mm]	Colour	Connector	Tooling
	4716T	10,16 ± 0,20	Black	ES-4109-12G	TL 1384