

4K Ultra High Definition HD1000 Serial Digital Video Cable 75 Ohm LSZH FireFighter[®]

Event[®] install

Event[®] studio



Application

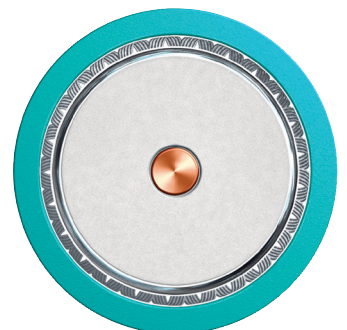
Event[®] Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

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 bare copper wire : 1 x 1,0 mm
Dielectric	Gas injected Polyethylene - physical foam
Screen	Aluminium/Polyester/Aluminium
Shield	Tinned copper braid, 95% coverage
Outer Jacket.....	LSZH FireFighter [®] IEC60332-3-24
Colour	See specification table



4K Ultra High Definition

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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

Electrical Data

Characteristic Impedance	75	± 3 Ω
Screening Factor	≥ 100	dB
Velocity Propagation	83	%
D.C.R Inner Conductor	22,0	Ω/km
D.C.R Outer Conductor	< 9,0	Ω/km
Mutual Capacitance	56	pF/m
Return Loss upto 2.5 GHz	> 20	dB
Return Loss 2.5 GHz upto 4.5 GHz	> 14	dB
Return Loss 4.5 GHz upto 12 GHz	> 13	dB

Frequency	Attenuation	Frequency	Attenuation
5 MHz	1,5 dB/100m	1500 MHz	25,6 dB/100m
71,5 MHz	5,1 dB/100m	2500 MHz	34,1 dB/100m
135 MHz	6,9 dB/100m	3000 MHz	38,2 dB/100m
180 MHz	8,3 dB/100m	6000 MHz	57,8 dB/100m
360 MHz	11,7 dB/100m	12000 MHz	83,6 dB/100m
750 MHz	17,2 dB/100m	-	-
1000 MHz	20,5 dB/100m	-	-

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HD1000 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		
588	536	435	361	116	78	156	105	69

Specification

Cross Section	Part Number	Overall Diameter [mm]	Colour
	HD1000-13	6,60 ± 0,50	Turquoise
	HD1000-10	6,60 ± 0,50	White
	HD1000-01	6,60 ± 0,50	Black