

4K Ultra High Definition HD1630 HDTV and Serial Digital Video Cable 75 Ohm Extremely Low Loss LSZH FireFighter[®]

Event[®] install

Event[®] studio



Application

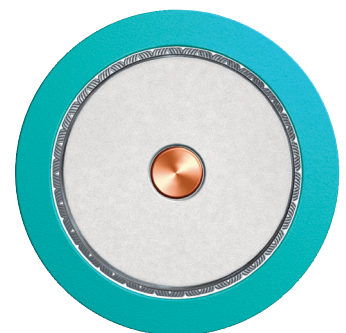
Event[®] Series HD Series Digital 75 Ohm video cables for the professional broadcaster provide high performance 4K signal transmission on a single coax reducing weight and space used significantly.

These cables have been engineered to exceed the SMPTE Return Loss (RL) requirements for 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 bare copper wire : 1 x 1,63 mm
Dielectric	Gas Injected Foam Polyethylene : Ø 7,11 mm
Screen	Aluminium/Polyester/Aluminium
Shield	Tinned copper braid, 95% coverage : Ø 7,80 mm
Outer Jacket	LSZH FireFighter [®] IEC60332-3-24
Colour	See specification table



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

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Mechanical & Thermal

Operating voltage	(max. peak value)	1,6 kV AC
Operating Temperature		-20 to +70 °C
Bending radius	+20 °C	60 mm (min.)
Bending radius	-30 °C	120 mm (min.)

Electrical Data

Characteristic Impedance	75	± 3 Ω
Capacitance	53	pF/m
Screening attenuation	> 90	dB
Velocity ratio	0,83	(nom.)
D.C.R Inner Conductor	8,6	Ohm/km
D.C.R Outer Conductor	< 10,0	Ω/km
Dielectric strength. 60 sn	3,0	kV DC
Insulation resistance	10000	MOhm x km (min.)
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
1.0 MHz	0.5 dB/100m	750 MHz	11.3 dB/100m
3.6 MHz	1.1 dB/100m	1000 MHz	12.9 dB/100m
5 MHz	0.9 dB/100m	1500 MHz	16.4 dB/100m
71.5 MHz	3.3 dB/100m	2500 MHz	20.7 dB/100m
135 MHz	4.4 dB/100m	3000 MHz	23.5 dB/100m
180 MHz	5.1 dB/100m	6000 MHz	36.2 dB/100m
360 MHz	7.5 dB/100m	12000 MHz	56.3 dB/100m

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HD1630 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		
909	833	682	588	177	122	244	170	110

Specification

Cross Section	Part Number	Overall Diameter [mm]	Colour
	HD1630-13	10,20 ± 0,50	Turquoise
	HD1630-01	10,20 ± 0,50	Black
	HD1630-17	10,20 ± 0,50	Light Green