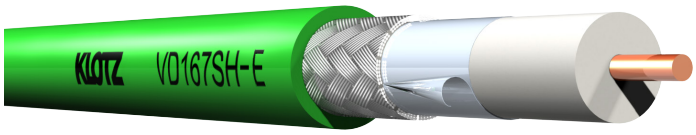

HD-SDI - digital video cable V16/72H - 1.6/7.2 AF - FRNC Eca

- very low attenuation
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)
- not suitable for mobile HD-SDI use
- CPR class Eca acc. to EN50575

PVC | UHD 6GSDI | Eca

The V16/72 is a cable designed for outstanding ultra-low-loss transmission in installations with extremely long transmission distances. Its solid copper core with diameter of 1.63 millimetres features ultra-low signal attenuation. Typical transmission distances under SMPTE standards are 590 metres for SDI video signals, 160 metres for 1.5-Gb/s HD-SDI signals and 116 metres for 3 Gb/s signals. However, in practice longer distances may well be possible depending on the devices used. The core is enclosed in a physically foamed PE dielectric medium that ensures signal transmission with low return loss and ultra-low attenuation. Effective protection against electromagnetic interference is offered by double shielding comprising an AL double composite layer and an ultra-densely woven copper shield providing over 95 per cent screening. The V16/72 is available with a choice of two jacket materials: durable PVC or flame-retardant halogen-free FRNC for installations.

construction

inner conductor	solid bare copper wire, Ø 1.63 mm
insulation	Foam-Skin PE, gas injected, Ø 7.2 mm
1. shield	AL/PET/AL double-layer foil
2. shield	tinned copper braid, >95% coverage
overall diameter	10.2 mm

mechanics

working temperature	-30°C / +70°C

electric

characteristic impedance	75 Ω ± 2%
capacity	53 pF/m
velocity of propagation	84 %
DC resistance	
inner conductor	8.6 Ω/km
outer conductor	4.9 Ω/km
screening attenuation	> 95 dB
attenuation [dB/100m]	
1 MHz	0.5
5 MHz	1.0
10 MHz	1.4
100 MHz	3.9
200 MHz	5.5
270 MHz	6.7
360 MHz	7.8
500 MHz	9.3
1000 MHz	13.6
1500 MHz	17.1
return loss	
30 - 300 MHz	> 30 dB
300 - 600 MHz	> 26 dB
600 - 900 MHz	> 24 dB

order code	outer jacket	working temperature	min. bending radius mm	colour	weight kg/m	standard lengths m
VD167SH-E	FRNC	-30°C / +70°C	60	green	0.12	100 / 200 / 300 / 500

technical specifications are subject to change

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