



HD-SDI - digital video cable 1.6/7.2 AF - PVC - Eca

- very low attenuation
- double shielding (100% foil + 95% braid)
- not suitable for mobile HD-SDI use
- CPR class Eca acc. to EN50575

PVC

Eca

UHD

12GSDI

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 Gbit/s HD-SDI signals and 116 metres for 3 Gbit/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.

design

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	-20°C / +70°C
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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
nom. attenuation [dB/100m]	
1 MHz	0.5
5 MHz	1.0
10 MHz	1.4
100 MHz	3.9
135 MHz	4.8
200 MHz	5.5
270 MHz	6.7
360 MHz	7.8
500 MHz	9.3
750 MHz	11.5
1000 MHz	13.6
1500 MHz	17.1
3000 MHz	25.3
6000 MHz	39.6
return loss	
30 - 300 MHz	> 25 dB
300 - 1500 MHz	> 23 dB
1500 - 3000 MHz	> 21 dB

order code	outer jacket	working temperature	min. bending radius mm	cable color	weight kg/m	standard lengths m
VD167SY	PVC	-20°C / +70°C	50	green	0.12	100 / 200 / 300 / 500

technical specifications are subject to change