



HD-SDI - digital video cable

0.6/2.8 AF - FRNC - Eca

- digital + analog video
- double shielding (100% foil + 90% braid)
- ideal for fixed and temporary installations
- flame retardant and non corrosive (FRNC)
- CPR class Eca acc. to EN50575 (IEC 60332)

This cable is designed for transmitting both digital and analogue video signals and is used for both rack applications and installations. The polished solid copper core has a diameter of 0.60 mm and is enclosed in a physically foamed PE dielectric medium that ensures signal transmission with no return loss and ultra-low attenuation. Typical transmission distances under SMPTE standards are 255 metres for SDI video signals, 65 metres for 1.5 Gb/s HD-SDI signals and 47 metres for 3 Gb/s signals. However, in practice longer distances may well be possible depending on the devices used. Effective protection against electromagnetic interference is offered by double shielding comprising an AL double composite layer and an ultradensely woven copper shield providing over 92 per cent screening. The outer jacket is of FRNC material, which is flame-retardant and completely halogen-free – a vital advantage for installations.

design

inner conductor	solid bare copper, Ø 0.60 mm
insulation	foam-skin PE, gas injected, Ø 2.85 mm
shielding	AL/PET/AL double-layer foil + tinned copper braid (92% coverage)
outer jacket	FRNC
overall diameter	4.5 mm

mechanics

operating temperature	-30°C / +70°C
min. bending radius	25 mm
min. bending radius	
installed	6x overall diameter
mobile use	12x overall diameter
material	lead-free
no hazardous substances	acc. to EU directive RoHS 2011/65/EU from 08.06.2011
CE conformity	acc. to EU directive LVD 2006/95/EG
halogen-free	acc. to IEC 60754-1
non corrosive	acc. to IEC 60754-2
flame retardancy	acc. to IEC 60332-1-2 und IEC 60332-3-24
low smoke emission	acc. to IEC 61034-1 and IEC 61034-2
heat of combustion	374 kJ/m

electric

characteristic impedance	75 Ω ± 2%
capacity	55 pF/m
velocity of propagation	81 %
screening attenuation	> 90 dB
nom. attenuation [dB/100m]	
1 MHz	1.2
5 MHz	2.7
10 MHz	3.8
100 MHz	10.8
135 MHz	12.4
200 MHz	15.0
270 MHz	17.5
500 MHz	24.2
750 MHz	31.0
1000 MHz	36.0
1500 MHz	44.9
3000 MHz	65.5
6000 MHz	95.9
12000 MHz	143.8
return loss	
30 - 300 MHz	> 25 dB
300 - 1500 MHz	> 23 dB
1500 - 3000 MHz	> 21 dB
3000 - 12000 MHz	> 15 dB

order code	ref. type	cable color	weight kg/m	standard lengths m
VD062SH-E	V06/28H	green	0,03	50 / 100 / 200 / 300 / 500

technical specifications are subject to change