



FRNC

Eca

UHD

12GSDI

**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

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**

working temperature	-30°C / +70°C
min. bending radius	25 mm

**electric**

characteristic impedance	75 Ω ± 1%
capacity	58 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