



HD-SDI - digital video cable

0.8/3.7 AF - FRNC - Eca

- digital + analog video
- double shielding (100% foil + 95% braid)
- not suitable for mobile HD-SDI use
- flame retardant and non corrosive (FRNC)
- CPR class Eca acc. to EN50575

FRNC

Eca

UHD

12GSDI

A cable designed to meet rigorous standards for transmission of analogue and digital video data and used for installations with medium transmission distances. The polished solid copper core has a diameter of 0.80 mm. Typical transmission distances under SMPTE standards are 340 metres for SDI video signals, 90 metres for 1.5 Gbit/s-HD-SDI signals and 59 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, and the cable features double shielding comprising a AL double composite layer and an ultra-densely woven copper shield providing over 95 per cent screening. The outer jacket is of flame-retardant halogen-free FRNC.

construction

inner conductor	solid bare copper wire, Ø 0.80 mm
insulation	Foam-Skin PE, gas injected, Ø 3.7 mm
shielding	AL/PET/AL double-layer foil + tinned copper braid (95% coverage)
outer jacket	FRNC
overall diameter	6.0 mm

mechanics

working temperature	-30°C / +70°C
min. bending radius	35 mm

electric

characteristic impedance	75 Ω ± 1%
capacity	55 pF/m
velocity of propagation	81 %
DC resistance	
inner conductor	35 Ω/km
outer conductor	8 Ω/km
screening attenuation	> 90 dB
nom. attenuation [dB/100m]	
1 MHz	0.9
5 MHz	2.1
10 MHz	3.0
100 MHz	8.4
135 MHz	9.0
200 MHz	11.6
500 MHz	18.7
750 MHz	22.9
1000 MHz	26.8
1500 MHz	33.1
3000 MHz	48.0
6000 MHz	70.0
12000 MHz	103.2
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
VD083SH-E	V08/37H	green	0.05	50 / 100 / 200 / 300 / 500

technical specifications are subject to change