



HD-SDI - digital video cable

1.0/4.8 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

With a conductor diameter of 1.0 mm, this cable for analogue and digital signal transmission fulfils the most rigorous standards and is used as a low-loss cable for installations with long transmission distances. Typical distances under SMPTE standards are 405 metres for SDI video signals, 110 metres for 1.5-Gb/s HD-SDI signals and 76 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 an extrathick physically foamed PE dielectric medium that ensures signal transmission with no return loss and ultra-low attenuation, and has an AL double composite layer shield inside an ultra-densely woven copper shield providing over 95 per cent screening. The V10/48 is available with an outer jacket of PVC.

construction

inner conductor	solid bare copper wire, Ø 1,0 mm
insulation	Foam-Skin PE, gas injected, Ø 4.8 mm
shielding	AL/PET/AL double-layer foil + tinned copper braid (95% coverage)
overall diameter	6.9 mm

mechanics

working temperature	-30°C / +70°C
min. bending radius	40 mm

electric

characteristic impedance	75 Ω ± 1%
capacity	55 pF/m
velocity of propagation	80 %
DC resistance	
inner conductor	22 Ω/km
outer conductor	6 Ω/km
screening attenuation	> 95 dB
nom. attenuation [dB/100m]	
1 MHz	0.8
5 MHz	1.6
10 MHz	2.1
100 MHz	6.2
135 MHz	7.3
200 MHz	8.9
500 MHz	14.4
750 MHz	18.2
1000 MHz	21.1
1500 MHz	26.4
3000 MHz	38.6
6000 MHz	57.0
12000 MHz	86.2
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
VD104SH-E	V10/48H	green	0.05	50 / 100 / 200 / 300 / 500

technical specifications are subject to change