



## VIDEO CABLES HD-SDI



**VD 1.0 / 4.8 HD LSZH**

✓STUDIO ✓INSTALLATION

HFFR

HD-SDI

ANALOG

DIGITAL

**VD 1.6 / 7.3 HD LSZH**

### APPLICATION

Ivox coaxial video cable meets all the requirements of the Broadcast installations for HDTV and SDI high-definition video in spite of its reduced diameter. The inner conductor insulation is made of a special gas-injected dielectric HDPE which guarantees a very low capacitance value. For analogue and digital video signals transmission These cable products have low smoke density , halogen free and they don't emit poisonous gases.

### CONSTRUCTION DATA

Inner conductor	1,02 mm ø (AWG 20) Bare Copper	1,63 mm ø (AWG 14) Bare Copper
Insulation	4.8 mm ø Gas-injected Foam	7.11 mm ø Gas-injected Foam
Shielding	Al / Pes Foil % 100	Al / Pes Foil % 100
Shielding	Tinned Copper Braiding % 95	Tinned Copper Braiding % 95
Outer Jacket	HFFR Compound	HFFR Compound
Outer Diameter	7 mmø	10 mmø
Cable Weight	6,8 Kg/100 m	12,5 Kg/100 m

### ELECTRICAL DATA

DC resistance		
Inner conductor	< 22 Ω / km	< 9,5 Ω / km
Shield	< 7 Ω / km	< 4,5 Ω / km
Mutual capacitance	56 pF / m	56 pF / m
Velocity of Propagation	80%	78%
Characteristic Impedance	75 Ω ± 1	75 Ω ± 1
Screening factor	≥ 100 dB	≥ 100 dB
Max. Operating Voltage	300 V Rms	300 V Rms

### Attenuation (db /100 Mt)

Frequency (MHz)	1	10	30	100	270	540	720	800	1000	1500	2000	2250	3000
VD 1,0 / 4,8 HD (db)	0.9	2.2	3.5	6.3	10.7	15.3	17.8	19.2	22.1	26.0	29.8	32.5	38.7
VD 1,6 / 7,3 HD (db)	0.5	1.4	2.5	4.0	6.3	9.5	11.5	12.0	13.4	17.0	20.0	20.9	26.5

Transmission Dis.	143Mb/s	177 Mb/s	270 Mb/s (SD)	360 Mb/s	1,5 Gb/s (HD)	3,0Gb/s
VD 1,0 / 4,8 HD (m)	450	410	320	270	90	60
VD 1,6 / 7,3 HD (m)	840	750	620	540	168	120

### MECHANICAL DATA

Minimum bending radius 8 x D ( D= O.D)  
Temperature range -30° C to + 70° C

### Return loss (dB)

Frequency (MHz)	(dB)
50 – 300	≥ 26
300 – 3000	≥ 22
3000 – 3500	≥ 18
3500 – 5000	≥ 15

- BLACK
- BLUE
- GREEN

