



## VIDEO CABLES HD-SDI



**VD 1.0 / 4.8 HD**

✓ MOBILE ✓ STUDIO ✓ INSTALLATION ✓ STAGE

sPVC

HD-SDI

ANALOG

DIGITAL

**VD 1.6 / 7.3 HD**

### 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

### 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    | Pvc                            | Pvc                            |
| 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

