

Tech Data

REF.: M10950

CABLE AND FIBRE OPTIC

VIDEO

DIGITAL VIDEO 3G

VDK 7.0 (1.0×4.6)



Description

Digital Video Cable VDK 7.0 (1.0 × 4.6):

Bare copper conductor. Cellular Polyethylene insulation expanded by physical methods. Aluminium – Polyester – Aluminium foil shield. Tinned copper braid shield. PVC sheath.

Applications

Video Cable for Fixed and Mobile Installation. Coaxial cable for Digital and critical analogue applications.

It supports Serial Data transmission (*):

- Standard format SD-SDI/SDTV.
- High Definition format HD-SDI/HDTV.
- 3 Gig format 3G-SDI/ Prog. Scan HDTV.

Also earlier standards.

(*) See transmission distances in *Electrical Characteristics*.

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Physical Characteristics

DIGITAL VIDEO	Conductor	Insulation
	Material: Bare Cu (Copper) AWG 18 Section 0.82 mm ² Composition: 1×1.0	Material: PEX-F (1) Cellular Polyethylene insulation expanded by physical methods. It allows holding its electrical characteristics over Diameter: 4.6 mm Colour: Natural
	1 st Shield	2 nd Shield
	Material: Al-PET-Al (Aluminium-Polyester-Aluminium) foil. Coverage: 100 %	Material: CuSn (Tinned Copper) braid. Coverage: 95 %
	Outer Sheath	
	Material: PVC (Polyvinyl Chloride) Diameter: 6.80 mm Colour: <div>Violet</div>	

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Electrical Characteristics

Capacitance	53 pF/m
Characteristic Impedance	75 $\Omega \pm 1\% \Omega$
Propagation Speed	>85 %
Insulation Resistance	>5000 M $\Omega \times \text{Km}$
DC Shielding Resistance	11.5 Ω/Km
DC Conductor Resistance	21.1 Ω/Km
Test Voltage	1500 V

DIGITAL VIDEO

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)
1	0.7	-20
5	1.5	
10	2.1	
50	4.7	
100	6.7	
500	14.9	
1000	21.1	
1500	25.9	
2000	29.9	
3000	36.6	

Transmission distances

143 Mb/s Composite NTSC video	466 m
177 Mb/s Composite PAL video	414 m
270 Mb/s Component SMPTE 259M	334 m
360 Mb/s Component Widescreen SMPTE 259M	290 m
1.5 Gb/s HDTV SMPTE 292M	142 m
3 Gb/s Prog. Scan HDTV SMPTE 424 M	100 m

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Mechanical Characteristics

Approx. Weight	65 Kg/Km
Temperature	-20/+70°C
Min. bending radius	20 x Ø
Mechanical Shock	AG2

Environment

RoHS (<i>Restriction of Hazardous Substances</i>)	Directive 2002/95/CE
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Applicable Regulations

Conductor Material	UNE-EN 60228
Insulating Material	UNE-EN 50290

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Web: www.pinanson.eu
@: pinanson@pinanson.eu

PINANSON S.L
Avda. Constitucion, 40. Mondejar (Guadalajara). SPAIN.
Telephone: +34 949 385 444 · Fax: +34 949 385 643

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For possible changes due to continuous product improvements; Pinanson S.L. reserves the right to change the showed data in this document without notice. The data presented here correspond to the time it was compiled.