Tech Data

REF.: 693

CABLE AND FIBRE OPTIC

VIDEO

DIGITAL VIDEO 3G

VDK 6.0 (0.8×3.7)

Description

Digital Video Cable VDK 6.0 (0.8 × 3.7):

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

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Conductor	Insulation
Material: Bare Cu (Copper) **Diameter** 0.8 mm **Section** 0.5 mm^2 **Composition:** 1×0.8	**Material:** PEX-F (1) Cellular Polyethylene insulation expanded by physical methods. It allows holding its electrical characteristics over **Diameter:** 3.7 mm **Colour:** Natural

1st Shield	2nd Shield
Material: Al-PET-Al (Aluminium-Polyester-Aluminium) foil. **Coverage:** 100 %	**Material:** CuSn (Tinned Copper) braid. **Coverage:** 93 %

Outer Sheath
Material: PVC (Polyvinyl Chloride) **Diameter:** 6.0 mm **Colour:** Blue

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Mechanical Characteristics

Approximate Weight	50 Kg/Km
Temperature	-20/+80°C
Min. Bending Radius	61 mm

Electrical Characteristics

DIGITAL VIDEO	Max. Resistance (Conductor)	34.3 Ω Ω/Km
	Max. Resistance (Shield)	12.9 Ω Ω /Km
	Insulation Resistance	>5000 M Ω×Km
	Mutual Capacitance	54 pF/m
	Characteristic Impedance	75 Ω Ω
	Delay Time	4.06 ns/m
	Cut-off Frequency	34.7 GHz
	Propagation Speed	82 %

Attenuation

Frequency (MHz)	dB/100m
1	0.8
10	1.9
50	2.6
100	5.9
200	8.3
500	18.7
800	26.4
1000	32.3
2000	37.3
3000	45.7

Return Loss

Frequency (MHz)	Value	Limit
5-800	>20 dB	>15 dB
800-3000	>15 dB	>10 dB

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Transmission Distance	
143 Mb/s Composite NTSC video	385 m
177 Mb/s Composite PAL video	358 m
270 Mb/s Component SMPTE 259M	305 m
360 Mb/s Component Widescreen SMPTE 259M	269 m
540 Mb/s Component Widescreen SMPTE 344M	219 m
1.5 Gb/s HDTV SMPTE 292M	128 m
3 Gb/s Prog. Scan HDTV SMPTE 424 M	91 m

Environment	
RoHS (*Restriction of Hazardous Substances*)	Directive 2002/95/CE

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

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