

Tech Data

REF.: M11712

CABLE AND FIBRE OPTIC

VIDEO

MULTICORE 4 DIGITAL 3G VIDEO

VDK 7.0 (1.0×4.5)

Description

Digital Video Multicore 4 x VDK 7.0 (1.0 × 4.5):

Bare Copper conductor. Polyethylene insulation. Aluminium – Polyester – Aluminium foil shield. Tinned copper braid individual shield. PVC individual sheath. Wired of coaxial cables. Overall paper protection. PVC outer sheath.



COLOUR	Nº COAXIALES	∅ Conductor × ∅ Dielectric	SHEATH	WEIGHT	∅ OUTER
BLACK	4	1.0X4.5	PVC	335.8 Kg/Km	19.20 mm

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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

VIDEO 1.0 x 4.5	Conductor		Dielectric	
	Material Bare Cu (Copper)		Material PEX-F (1) Cellular Polyethylene insulation expanded by physical methods. It allows holding its electrical characteristics over	
	Diameter 1.02 mm		Diameter 4.45 mm	
	Section 0.82 mm ²		Colour: Natural	
	Composition 1×1.02			
	AWG 18			
1st Shield		2nd Shield		
Material (Aluminium-Polyester-Aluminium) foil.		Material CuSn (Tinned Copper) braid.		
Coverage 100 %		Coverage 90 %		
Individual Sheath				
Material PVC (Polyvinyl Chloride)				
Diameter 6.90 mm				
Colour <div style="background-color: black; color: white; text-align: center; padding: 5px;">Numbered Black</div>				

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	Wiring
Composition 4	
Diameter 16.63 mm	
	Protection
Material Paper	
	Outer Sheath
Material PVC (Polyvinyl Chloride)	
Diameter 19.20 mm	
Colour:	
	Black

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Mechanical Characteristics

Approximate Weight	335.8 Kg/Km
Temperature	-20/+70°C
Min. Bending Radius	384 mm

Electrical Characteristics

Max. Resistance at 20°	21.7 Ω /Km
Max. Resistance at 20° (Individual shield)	14.1 Ω /Km
Nominal Capacitance	53 pF/m
Nominal Impedance	75 Ω
Propagation Speed	85 %
Delay	3.92 ns/m
Cut-off Frequency	29.6 %
Insulation Resistance	>5000 M Ω ×Km
Voltage Test	1500 V

Attenuation

Frequency (MHz)	dB/100m
1	0.7
5	1.6
10	2.2
50	5.0
100	7.0
500	15.7
1000	22.2
1500	27.3
2000	31.5
3000	38.5

Return Loss

Frequency (MHz)	Value (dB)
0-800	20
800-1000	23

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Transmission Distances	
143 Mb/s Composite NTSC video	442 m
177 Mb/s Composite PAL video	395 m
270 Mb/s Component SMPTE 259M	318 m
360 Mb/s Component Widescreen SMPTE 259M	277 m
540 Mb/s Component Widescreen SMPTE 344M	135 m
1.5 Gb/s HDTV SMPTE 292M	112 m
3 Gb/s Prog. Scan HDTV SMPTE 424 M	95 m

Environment

RoHS (*Restriction of Hazardous Substances*)

Directive 2002/95/CE

Normative

Conductor Material

UNE-EN 60228

Insulating Material

UNE-EN 50290

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Review: May 2014

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.