

Tech Data

REF.: M7166.20

CABLE AND FIBRE OPTIC

VIDEO
UHD CABLE
12G-SDI



Description

Digital Video Cable 12G-SDI (1.0 × 4.6):

Bare copper conductor. PE skin/foam insulation expanded by physical methods. Tinned copper braid double 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**.
- UHD-1 **6G-SDI** (QFHD)
- UHD-1 **12G-SDI** (4K)

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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: Pe skin/foam Diameter: 4.6 mm Colour: Natural
	1st Shield	2nd Shield
	Material: CuSn (Tinned Copper) braid. Coverage: 95 %	Material: CuSn (Tinned Copper) braid. Coverage: 95 %
	Outer Sheath	
Material: PVC (Polyvinyl Chloride) Diameter: 7.2 mm Colour: <div style="background-color: black; color: white; text-align: center; padding: 5px;">Black</div>		

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Electrical Characteristics

DIGITAL VIDEO

Capacitance	53 pF/m		
Characteristic Impedance	75 Ω ± 3%		
Propagation Speed	>83 %		
Insulation Resistance	>10.000 MΩ×Km		
DC Conductor Resistance	21.95 Ω/Km		
DC Outer Conductor Resistance	7.5 Ω/Km		
Test Voltage	2000 V		
Frequency (MHz)	Attenuation (dB/100m)	Frequency (GHz)	Return loss (dB)
1	0.7		
5	1.5		
10	2.1		
50	4.7		
100	6.7	3	-21.43
500	14.9	6	-15.39
1000	21.1	12	-10.84
1500	25.9		
2000	29.9		
3000	36.6		
6000	53.5		
Transmission distances (approx.)			
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			110 m
6 Gb/s ST2081-1			100 m
12 Gb/s ST2082-1			74 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

Communication cables	UNE-EN 50289
Conductor Material	UNE-EN 60228
Insulating Material	UNE-EN 50290



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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.