

**Description**

Security video cable - 75 Ohm

Indoor and Outdoor installation cable (Screening attenuation - Class A)



Data Sheet

**VSHD70**



Ø	0,70	3,00	3,10	3,50	4,40
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(LSZH)

**Class CPR acc. to UE 305/2011 (DoP)**

Dca s2,d2,a1

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/ 2011 for the class of performance specified on the related product label.

**Standards**

EN50117-9-1	EN50117-10-1	CEI-UNEL 36762
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**Reaction to Fire**

EN 50575

**Application**

4K-UHD  
 EoC (Ethernet over Coax)  
 Indoor + Outdoor Installation

**Construction data**

Inner conductor of plain copper	(Cu)	Ø 0,70 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,00 ± 0,10	mm
Aluminum/Polyester/Aluminum tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		72	%
Diameter over Braid		Ø 3,50	mm
Outer sheath of Thermoplastic material - blue (RAL 5015) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 4,40 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL VS HD 70 LSZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-9-2 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m**

(gggaan=batch number m=meter marking)

**Physical data**

Weight of copper conductors	10,05	kg/km
Total weight of cable	21,80	kg/km
Minimum bending radius (single/repeated bending)	20/40	mm
Maximum cable pulling strength	80	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

**ITALIANA CONDUTTORI s.r.l.**

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Date

11/09/2023

Responsible

A. Bergaglio

## Description

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Coaxial Cables

**CAVEL**

since 1968

Data Sheet

**VSHD70****Electrical data**

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		45,50	Ohm/km
Outer conductor resistance		19,60	Ohm/km
Loop resistance		65,10	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (I <sub>eff</sub> )		3	A
Maximum Operating Range analog/digital		800 / 400	m
Structural return loss (SRL)			
5 - 470 MHz	>28 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A	Transfer Impedance (Z <sub>t</sub> )	
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 7 mOhm/m
1000 - 2000 MHz	>75 dB		
2000 - 3000 MHz	>67 dB		

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
2	1,60	5	2,50
3	1,90	200	13,00
4	2,20	862	27,80

**Connectors**

<b>BNCC3.3C</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation
<b>BNCC70</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation
<b>CS70</b>	Stripper for Drop Cables, just for DG70, VSHD70, Tools -

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