

Description

Security video cable - 75 Ohm

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



Data Sheet

VSHD40



Ø	0,42	1,90	2,07	2,47	3,60
	(Cu)	(PEG)	(Al/Pet/Al+Sur)	(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

Reaction to Fire

EN 50575

Application

4K-UHD

EoC (Ethernet over Coax)

Indoor + Outdoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,42 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 1,90 ± 0,10	mm
Aluminum/Polyester/Aluminum+Surlyn tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al+Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		70	%
Diameter over Braid		Ø 2,47	mm
Outer sheath of Thermoplastic material - blue (RAL 5015) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 3,60 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL VS HD 40 LSZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-9-1 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	5,52	kg/km
Total weight of cable	16,12	kg/km
Minimum bending radius (single/repetead bending)	15/30	mm
Maximum cable pulling strength	50	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

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Date

08/09/2023

Responsible

A. Bergaglio

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Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		55 ± 3	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		135	Ohm/km
Outer conductor resistance		30	Ohm/km
Loop resistance		165	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current		1	A
Maximum Operating Range analog/digital		500 / 250	m
Structural return loss (SRL)			
5 - 470 MHz	>25 dB		
470 - 1000 MHz	>21 dB		
1000 - 2000 MHz	>20 dB		
2000 - 3000 MHz	>18 dB		

Screening Attenuation (SA)	SA-Class A
30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>85 dB
2000 - 3000 MHz	>75 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
2	2,40	5	3,80
3	2,90	200	21,20
4	3,40	862	45,10

Connectors

- BNCC40** Series BNC Compression, BNC Compression, for OUTDOOR installation
- BNCCEM3C** Series BNC Compression, BNC Compression, for OUTDOOR installation

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