

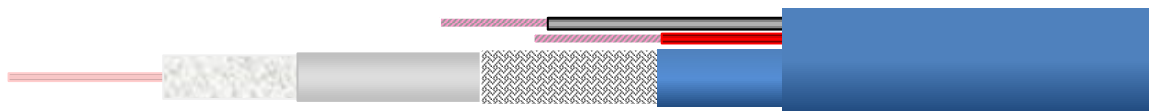
**Description**

Video security cable - 75 Ohm with 2 electrical wires 1 mm<sup>2</sup>  
 Indoor and Outdoor installation cable (Screening attenuation - Class A)



Data Sheet

**VSHD80210**



Ø 6,80 x 9,90  
 1 mm<sup>2</sup> (LSZH)

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

Eca

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**

EN50575

**Application**

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

Attached Data Sheet	Sheath Colour
VSHD80	blue (RAL 5015)
CE26	black (RAL 9011)
CE27	red (RAL 3000)

Outer sheath of Thermoplastic material - blue (RAL 5015) - (LSZH) Ø 9,90 x 6,80 ± 0,10 mm  
 halogen-free, low smoke, flame retardant and UV-resistant  
 Printed each meter by blue ink-jet :

**CAVEL VS HD 80 210 LSZH MADE IN ITALY 75 Ohm Euroclass Eca 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	27,80	kg/km
Total weight of cable	74,30	kg/km
Minimum bending radius (single/repetead bending)	50 / 100	mm
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

**Electrical data**

Loop Resitance electrical wires	36	Ohm/km
Sheat Insulation voltage (spark test)	2,50	kV

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

Viale Zanotti 90 I - 27027 Gropello Cairoli  
 Tel +39-382.815150 Fax +39-0382.814212

Date

11/09/2023

Responsible

A. Bergaglio

**Description**Video security cable - 75 Ohm with 2 electrical wires 1 mm<sup>2</sup>

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



Data Sheet

**VSHD80210**

Sheat Insulation voltage (spark test)	2,50	kV
Maximum Operating Range analog/digital	1000 / 500	m

**Connectors**

- BNCC3.9C** Series BNC Compression, BNC Compression, for OUTDOOR installation
- BNCC501** Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
- CS00** Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -

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**Description**

Outdoor drop coaxial cable - 75 Ohm  
 Indoor and Outdoor installation cable (Screening attenuation - Class A)



Data Sheet

**VSHD80**  
 VSHD80210



Ø	0,80	3,50	3,60	4,00	5,00
	(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 0,80 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,50 ± 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)		65	%
Diameter over Braid		Ø 4,00	mm
Outer sheath of Thermoplastic material - blue (RAL 5015) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 5,00 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL VS HD 80 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	11,13	kg/km
Total weight of cable	26,80	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

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**Description**

Outdoor drop coaxial cable - 75 Ohm

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



Data Sheet

**VSHD80**  
VSHD80210**Electrical data**

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		18,60	Ohm/km
Loop resistance		53,60	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (I <sub>eff</sub> )		4	A
Maximum Operating Range analog/digital		1000 / 500	m
Structural return loss (SRL)			
5 - 470 MHz	>30 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	< 9 mΩ/m
1000 - 2000 MHz	>75 dB		
2000 - 3000 MHz	>65 dB		

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
2	1,30	5	2,10
3	1,60	200	11,00
4	1,90	862	23,00

**Connectors**

- BNCC3.9C** Series BNC Compression, BNC Compression, for OUTDOOR installation
- BNCC501** Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
- CS00** Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -

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Responsible

A. Bergaglio

**Description**Electrical wire 1 mm<sup>2</sup>

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

**Data Sheet****CE26**  
VSHD80210

32x0,193



Ø	1,13	2,55
	(Cu)	(LSZH)

**Application**

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**Construction data**

Electrical conductor of stranded bare copper wires 1,00 mm <sup>2</sup>	(Cu)	32x0,193	Ø 1,13	mm
Outer sheath of Thermoplastic material - black (RAL 9011) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 2,55	mm

**Physical data**

Weight of copper conductors	8,30	kg/km
Total weight of cable	15,20	kg/km

**Electrical data**

Inner conductor resistance	18	Ohm/km
Maximum current	12	A

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16/09/2021

**Responsible**

A. Bergaglio

**Description**Electrical wire 1 mm<sup>2</sup>

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

**Data Sheet****CE27**  
VSHD80210

32x0,193



Ø	1,13	2,55
	(Cu)	(LSZH)

**Application**

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**Construction data**

Electrical conductor of stranded bare copper wires 1,00 mm <sup>2</sup>	(Cu)	32x0,193	Ø 1,13	mm
Outer sheath of Thermoplastic material - red (RAL 3000) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 2,55	mm

**Physical data**

Weight of copper conductors	8,30	kg/km
Total weight of cable	15,20	kg/km

**Electrical data**

Conductor resistance @ 20°C	18	Ohm/km
Maximum current	12	A

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