

Description

Security video cable - 75 Ohm

UV resistant security video cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

VS80



0,80 (Cu)	3,50 (PEG)	3,60 (Al/Pet/Al)	4,00 (CuSn)	5,00 (LSZH)
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Constructive data

Inner conductor of plain copper	(Cu)	0,80 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	3,50 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Outer Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		65 %
Diameter under Sheath		4,00 mm
Outer sheath of Thermoplastic material - black - halogen-free, flame retardant and UV-resistant (Q8)	(LSZH)	5,00 ± 0,10 mm

Printed each meter by yellow ink-jet :

CAVEL VS 80 MADE IN ITALY 75 Ohm EN50117-2-5 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

(ss=week, aa=year) (m=meter marking)

Electrical data

Characteristic impedance (@ 200 MHz)	75 ± 3	Ohm
Capacitance (@1kHz)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	18,60	Ohm/km
Loop resistance	53,60	Ohm/km
Insulation voltage of the sheath (spark test)	2,50	KV
Maximum current (Ieff)	4,00	A

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)

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>70 dB

Transfer impedance

5 - 30 MHz < 0,35 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

19/11/2009

Responsible

Giuseppe Guastella

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	862	23,00
10	3,00	1000	24,90
30	4,40	1750	33,50
50	5,70	2150	37,40
200	11,00	2400	39,60
300	13,50	3000	44,80
470	16,80		

Mechanical data

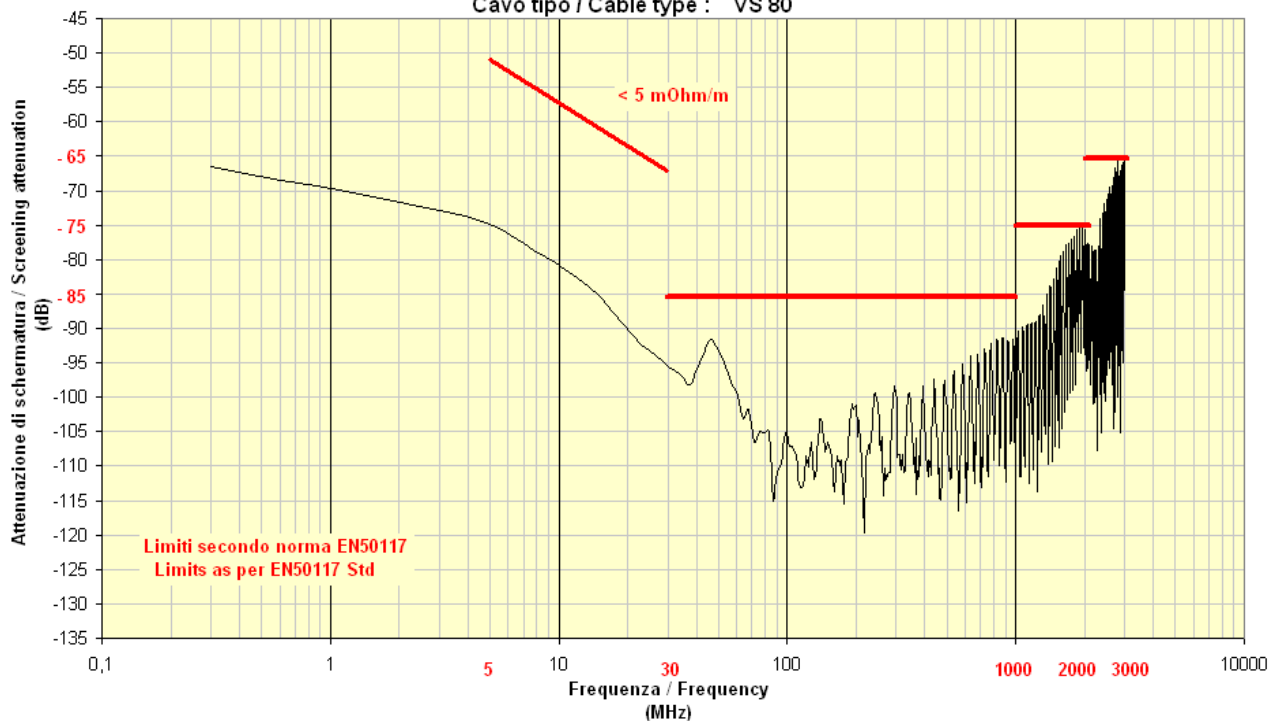
Weight of copper conductors	11,10	kg/km
Total weight of cable	26,70	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Max. cable pulling strength	90	N

Standards

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : VS 80



Connector

FA501	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
F501	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
FC501	F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm
BNCC501	BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm

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