Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable

Coaxial Cables CAVEL since 1968

Data Sheet

SAT50MN

Ø	1,00	4,80	4,87	5,27	6,60
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(PVC)

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

EN 50117-2-4

Reaction to Fire

EN50575

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,15	mm
Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		37	%
Diameter over Braid		Ø 5,27	mm
Outer sheath of Polyvinylchloride - black - lead-free	(PVC)	Ø 6,60 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL SAT 50 MN MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	11,38	kg/km
Total weight of cable	38,68	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		54 ± 2	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		22,50	Ohm/km
Outer conductor resistance		33	Ohm/km
Loop resistance		55,50	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (Ieff)		6	A

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Structural return loss (SRL)

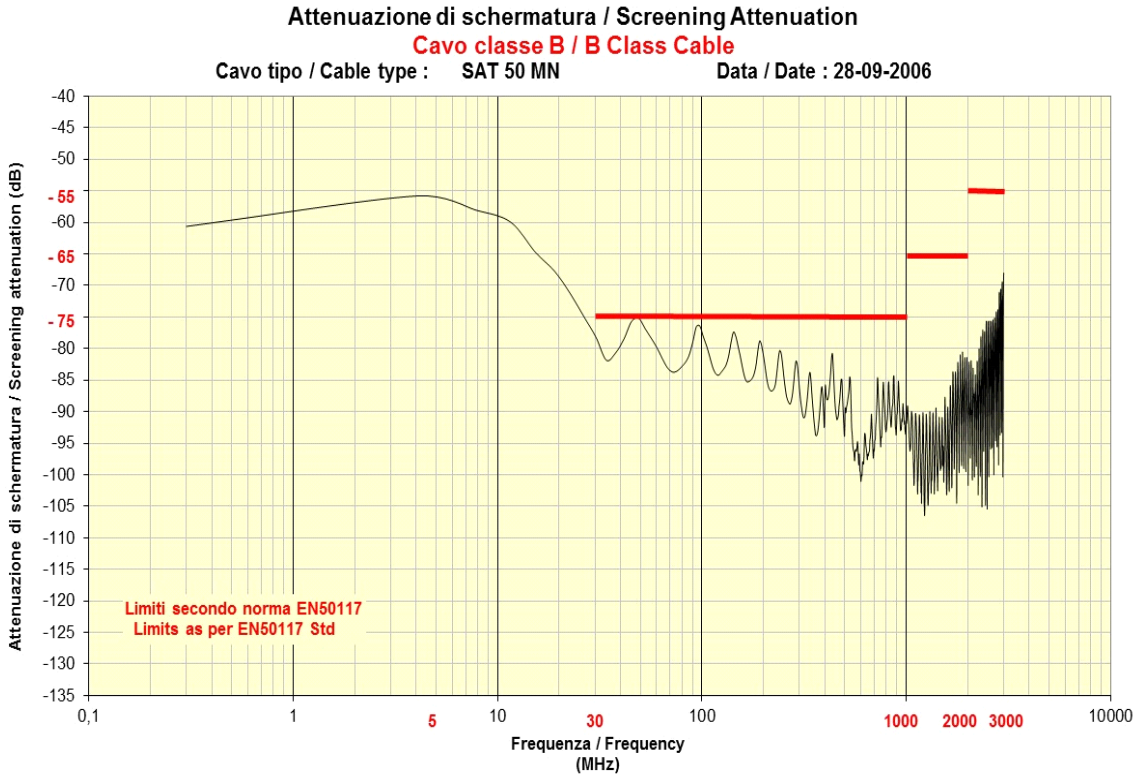
5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)	SA-Class B
30 - 1000 MHz	>75 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>70 dB

Transfer Impedance (Zt)	
5 - 30 MHz	< 85 mOhm/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,00	862	18,80
10	2,80	1000	20,40
30	3,80	1750	27,80
50	4,60	2150	31,10
200	8,60	2400	33,30
300	10,50	3000	37,70
470	13,60		



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Connectors

BNCC703	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
F703	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FA703	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for OUTDOOR installation
FC703	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FCEM7.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass
IECF5.1C	Series IEC (toolless), female, no tool, for INDOOR installation
IECF90C	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
IECFC703	Serie IEC Compression, female, no tool, for OUTDOOR installation
IECM5.1C	Series IEC (toolless), male, no tool, for INDOOR installation
IECM90C	Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation
IECMC703	Serie IEC Compression, male, for OUTDOOR installation
FC703C	Series F Compression, F Compression, for OUTDOOR installation

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