

Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT501



Ø	0,80	3,50	3,60	4,00	5,00
	(Cu)	(PEG)	(Al/Pet/Al)	(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

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)		47	%
Diameter over Braid		Ø 4,00	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 5,00 ± 0,10	mm
Printed each meter by blue ink-jet :			

CAVEL SAT 501 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaa(n) m

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

Physical data

Weight of copper conductors	8,87	kg/km
Total weight of cable	24,20	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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		26	Ohm/km
Loop resistance		61	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (Ieff)		4	A
Structural return loss (SRL)	5 - 470 MHz	>30 dB	

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
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470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)	SA-Class B	Transfer Impedance (Zt)	Zt-Class C
30 - 1000 MHz	>80 dB	5 - 30 MHz	< 23 mOhm/m
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>75 dB		

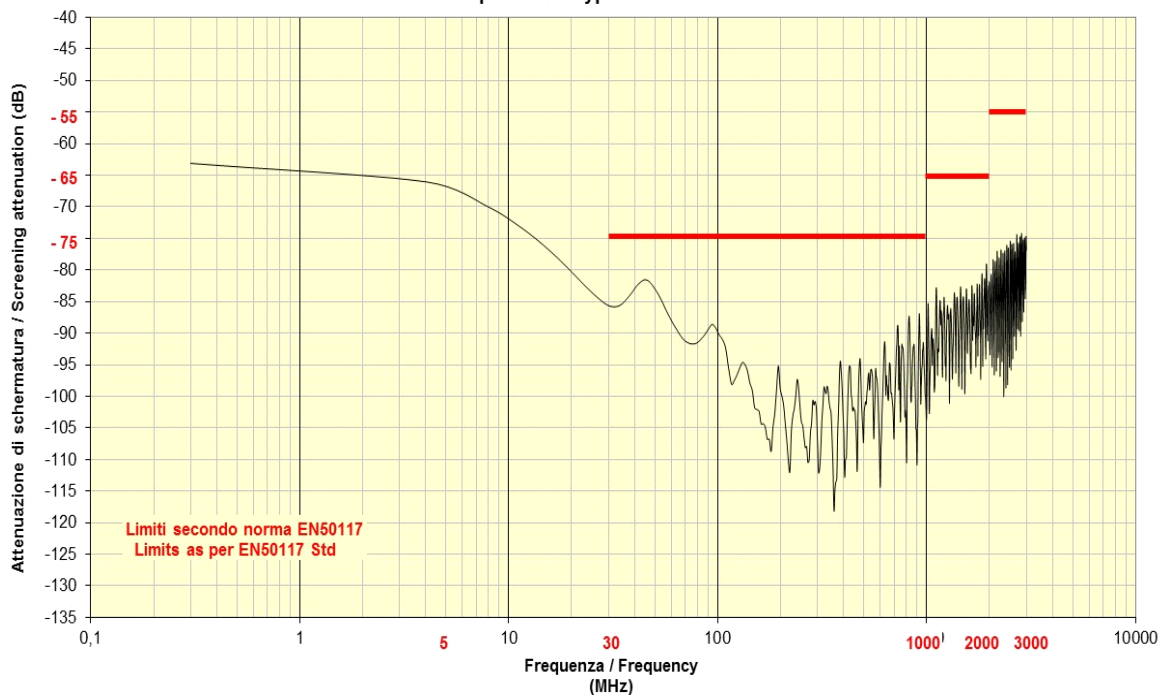
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,30	862	23,30
10	2,80	1000	25,20
30	4,60	1750	34,00
50	5,60	2150	38,20
200	10,90	2400	40,40
300	13,70	3000	44,20
470	17,40		

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT 501



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SAT501**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
F501	Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FA501	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FC5.0QMS	Series F Compression, Short Quick Mount, for OUTDOOR installation
FC501	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
IECF905C	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation

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