

## Description

Indoor drop coaxial cable - 75 Ohm  
Indoor installation cable (Screening Class B)

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)

## Construction 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)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		47 %
Diameter under Sheath		4,00 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	5,00 ± 0,10 mm

Printed each meter by blue ink-jet :

**CAVEL SAT 501 MADE IN ITALY 75 Ohm EN50117-2-4 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 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		26	Ohm/km
Loop resistance		61	Ohm/km
Insulation voltage of the sheath (spark test)		2,50	kV
Maximum current (I <sub>eff</sub> )		4	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	>80 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>75 dB

## Transfer impedance

5 - 30 MHz 1,2 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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

Date

27/02/2012

Responsible

Pierpaolo Piccinini

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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		

**Mechanical data**

Weight of copper conductors	8,87	kg/km	
Total weight of cable	24,20	kg/km	
Minimum bending radius (single/repetead bending)	25/50	mm	
Maximum cable pulling strength	90	N	
Fire Load	353	MJ/km	98 kWh/km

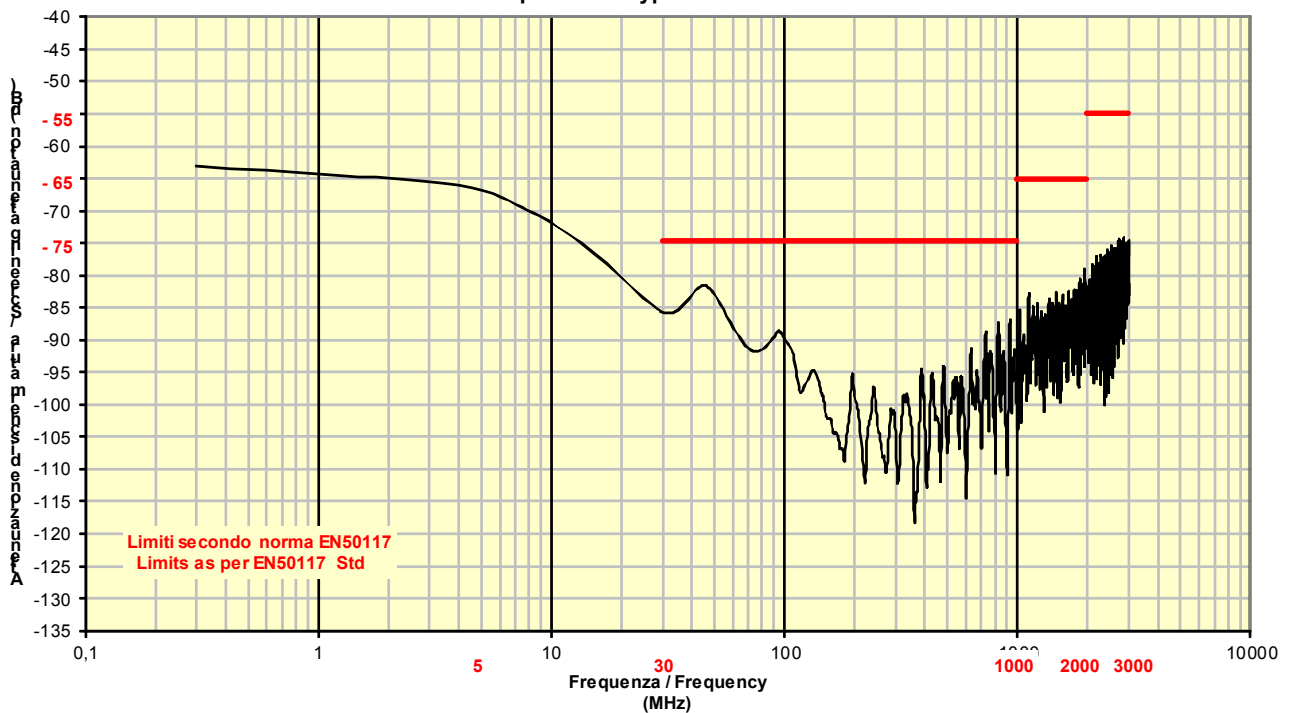
**Standards**

EN 50117-2-4

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe B / B Class Cable**

Cavo tipo / Cable type : **SAT 501**



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**Data Sheet****SAT501****Connector**

<b>IECF905C</b>	Series IEC (no tool), Ø 3,9 90° female, for indoor installation
<b>IECM905C</b>	Series IEC (no tool), Ø 3,9 90° male, for indoor installation
<b>FA501</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F501</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>BNCC501</b>	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>FCPO3.9C</b>	Series F Compression, Ø 3,9 Push-On, for outdoor installation, nitin-plated brass
<b>FC501</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for outdoor installation

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