

## Description

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



## Data Sheet

SAT501N



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)

E<sub>ca</sub>

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

## Fire-Resistance Rating

EN50575

## 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
Aluminium/Polyester/Aluminium 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 - black - lead-free	(PVC)	Ø 5,00 ± 0,10	mm
Printed each meter by yellow ink-jet :			

**CAVEL SAT 501 N MADE IN ITALY 75 Euroclass Eca Ohm 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	23,71	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

## ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

## Date

29/02/2016

## Responsible

PierPaolo Piccinini

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**SAT501N**

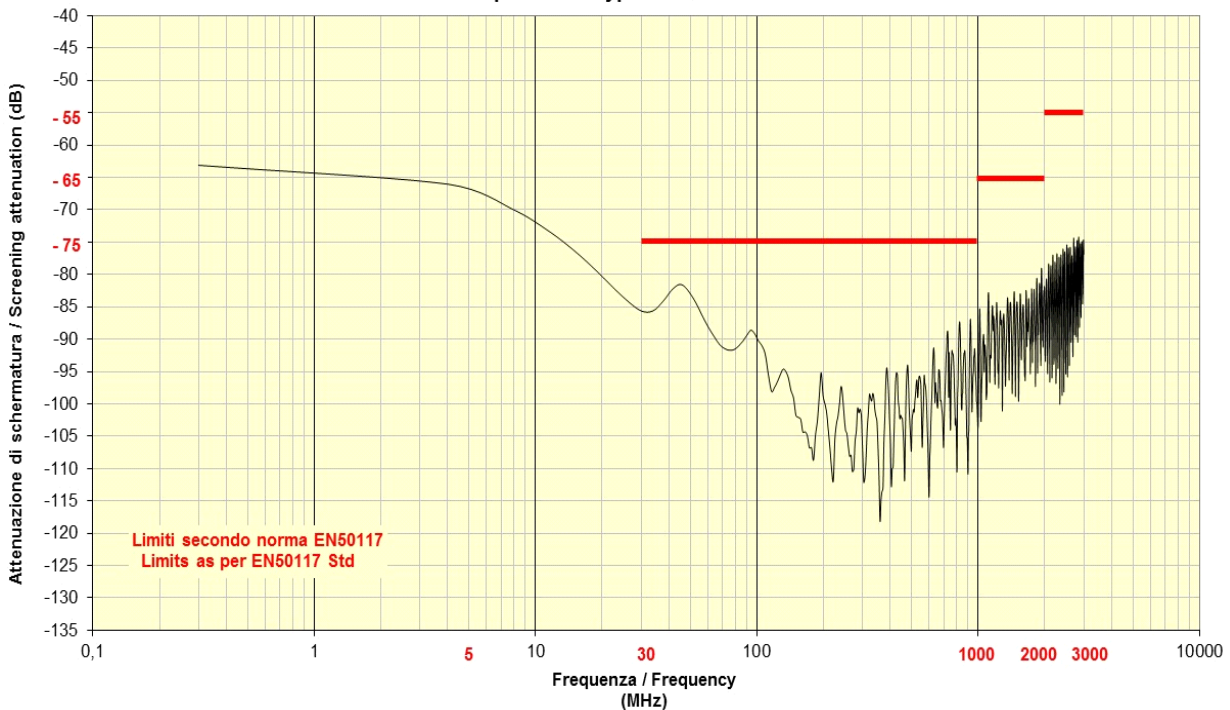
Maximum current (Ieff)		4	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class B		
30 - 1000 MHz	>80 dB		
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>75 dB		

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 N**



**Connectors**

**BNCC3.9C** Series BNC Compression, BNC Compression, for OUTDOOR installation

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<b>BNCC501</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>F501</b>	Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FA501</b>	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FC5.0QMS</b>	Series F Compression, Short Quick Mount, for OUTDOOR installation
<b>FC501</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FCEM5.0C</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
<b>FCPO3.9C</b>	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
<b>IECF905C</b>	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
<b>IECM905C</b>	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation

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