

## Description

Double Shielded Coaxial Connection Cable for Wide Band - 75  
Ohm  
PVC Outer Sheath

Coaxial Cables

CAVEL®

since 1968

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)

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

EN50117-9-2

CEI-UNEL 36762

## Reaction to Fire

EN50575

## Application

Indoor Installation

## 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 - black (RAL 9011) - 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 EN50117-9-2 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	23,88	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

## Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
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## ITALIANA CONDUTTORI s.r.l.

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

Date

14/06/2023

Responsible

A. Bergaglio

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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	
470 - 1000 MHz	>27 dB	
1000 - 2000 MHz	>22 dB	
2000 - 3000 MHz	>20 dB	

Screening Attenuation (SA)	SA-Class B	Transfer Impedance (Zt)	
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	2,10	690	20,80
10	2,80	1000	25,60
30	4,60	1750	35,00
50	5,60	2150	38,50
200	10,90	2400	40,80
300	13,70	3000	46,00
470	17,40		

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**SAT501N****Connectors**

<b>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation
<b>BNCC501</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>C75-5L</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CCFM75GI</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CS00</b>	Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -
<b>DR01</b>	Adapter, Nut and Washer, for INDOOR installation
<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>F81-HQ</b>	Adapter, F Adapter FF, for INDOOR installation
<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>FM-FF90</b>	Adapter, FM - FF 90°, for INDOOR installation
<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
<b>LTE790</b>	Indoor Fittings, Filter, for INDOOR installation
<b>MM-F703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>MM-FR703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>SAT2VS</b>	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation

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