

**Description**

Double Shielded Coaxial Connection Cable for Wide Band - 75  
Ohm  
Indoor installation cable



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**

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 - white - 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 EN50117-9-2 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	23,90	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
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		35	Ohm/km

**ITALIANA CONDUTTORI s.r.l.**


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Date

20/05/2022

Responsible

A. Bergaglio

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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	>28 dB			
1000 - 2000 MHz	>26 dB			
2000 - 3000 MHz	>22 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		2,30	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		
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		
C75-5L		Indoor Fittings, 75 Ohm Terminator, for INDOOR installation		
CCFM75GI		Indoor Fittings, 75 Ohm Terminator, for INDOOR installation		
CS00		Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -		
DR01		Adapter, Nut and Washer, for INDOOR installation		
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		
F81-HQ		Adapter, F Adapter FF, for INDOOR installation		
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		
FM-FF90		Adapter, FM - FF 90°, for INDOOR installation		
IECF905C		Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation		
IECM905C		Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation		
LTE790		Indoor Fittings, Filter, for INDOOR installation		
MM-F703		Adapter, F Adapter MM, for INDOOR installation		
MM-FR703		Adapter, F Adapter MM, for INDOOR installation		
SAT2VS		Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation		
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