

Description

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



Data Sheet

SAT501



Ø	0,80 (Cu)	3,50 (PEG)	3,60 (Al/Pet/Al)	4,00 (CuSn)	5,00 (PVC)
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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
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ITALIANA CONDUTTORI s.r.l.

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Coaxial Cables

CAVEL®

since 1968

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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	>27 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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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
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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