

Description

Multimedia Cable

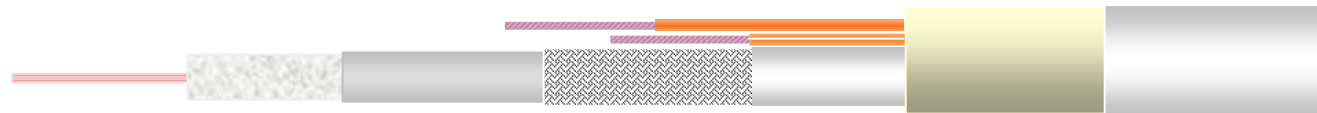
Coaxial cable - 75 Ohm - with twisted pair AWG 24

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

SAT501AWG

Ø	0,80	3,5	3,60	4,00	5,00		8,20 x 6,00
	(Cu)	(PEG)	(Al/PET/Al)	(CuSn)	(PVC)	(PET)	(PVC)

Construction data

Outer non-migrating Polyester tape longitudinally overlapped (Pet)

Attached Data Sheet

Sheath Colour

SAT501	white (PVC)
CT19	orange
CT20	white/orange

Outer sheath of Polyvinylchloride - white (PVC) - lead-free (PVC) Ø 8,20 x 6,00 ± 0,20 mm

Printed each meter by blue ink-jet :

CAVEL SAT 501 AWG 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)

Physical data

Weight of copper conductors	12,54	kg/km
Total weight of cable	44,37	kg/km
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

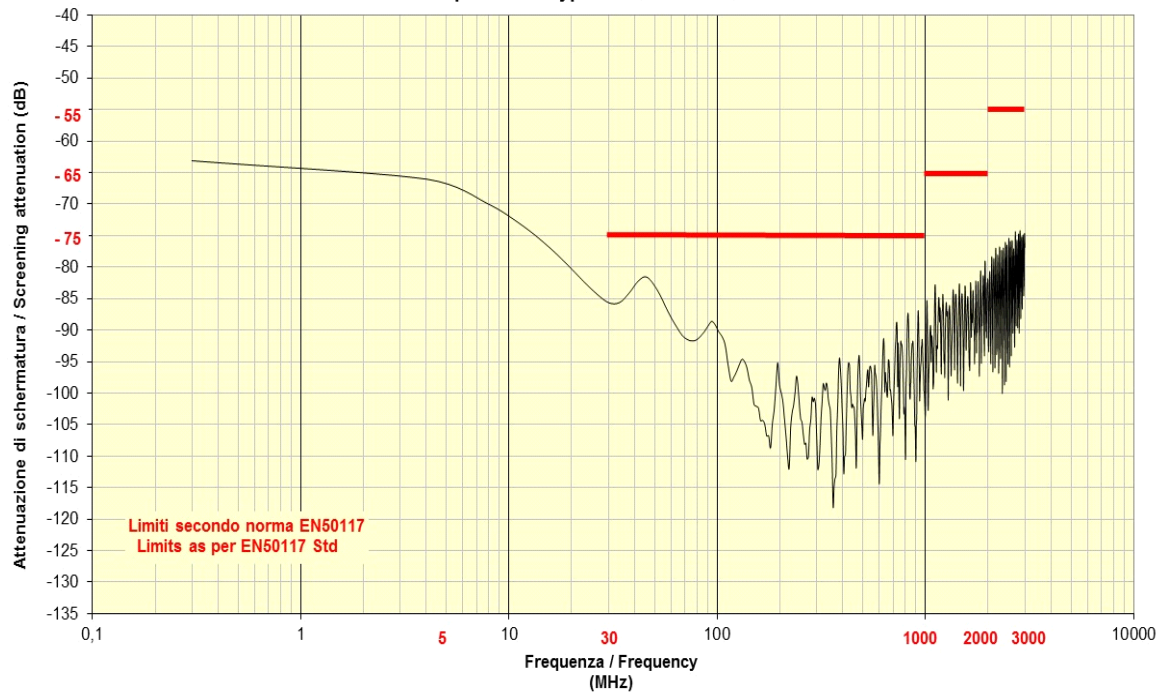
29/02/2016

Responsible

Alberto Scardovi

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable
Cavo tipo / Cable type : SAT 501 AWG



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
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
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
FCEM5.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
IECF905C	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation

Description

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT501

SAT501AWG



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_{ca}

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.

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 - white (PVC) - 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 EN50117-2-4 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	24,20	kg/km
Minimum bending radius (single/repetead 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
Maximum current (I _{eff})		4	A
Structural return loss (SRL)			
	5 - 470 MHz	>30 dB	
	470 - 1000 MHz	>28 dB	
	1000 - 2000 MHz	>26 dB	

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Responsible

Pierpaolo Piccinini

Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable (Screening Class B)



Data Sheet

SAT501
SAT501AWG

2000 - 3000 MHz >22 dB

Screening Attenuation (SA)

SA-Class B

Shield Transfer Impedance (Zt)

Zt-Class C

30 - 1000 MHz

>80 dB

5 - 30 MHz

< 23 mOhm/m

1000 - 2000 MHz

>80 dB

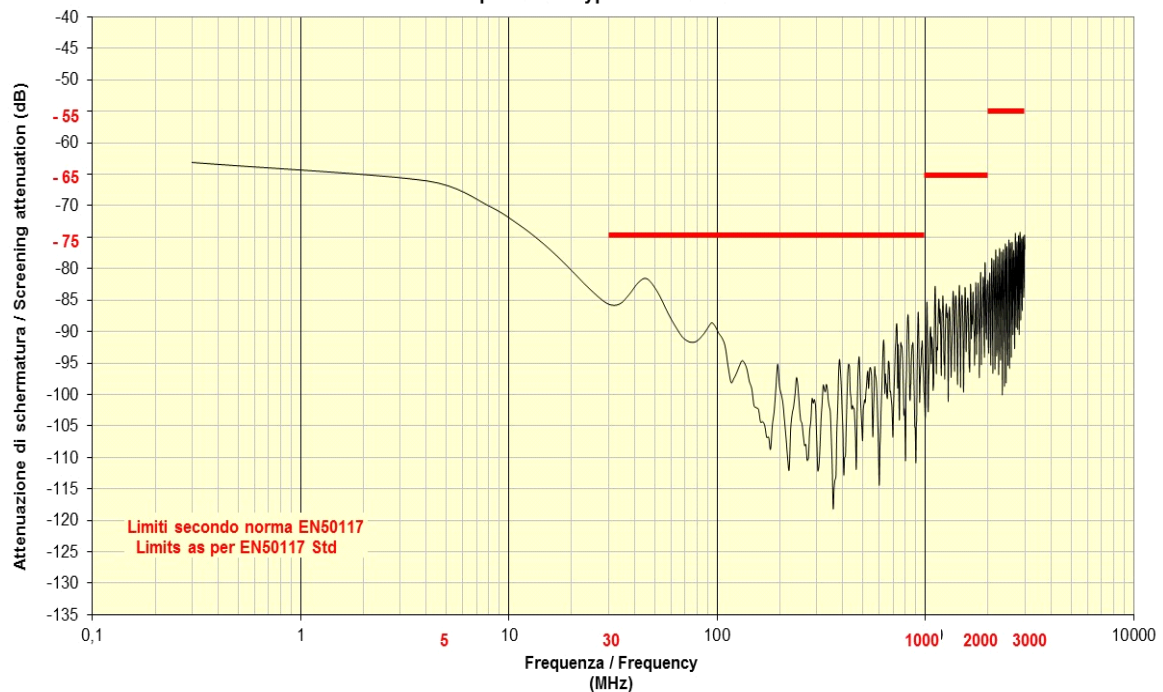
2000 - 3000 MHz

>75 dB

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

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



Connectors

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- BNCC501** Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
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- FA501** Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
- FC5.0QM5** 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
- FCEM5.0C** Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
- FCPO3.9C** Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
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Responsible

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Ø	0,51	0,90
	(Cu)	(HDPE)

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,51	mm
Outer sheath of High Density Polyethylene - orange	(HDPE)	Ø 0,90 ± 0,05	mm

Physical data

Copper Content	1,82	kg/km
Cable Weight	2,23	kg/km

Ø	0,51	0,90
	(Cu)	(HDPE)

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,51	mm
Outer sheath of High Density Polyethylene - white/orange	(HDPE)	Ø 0,90	mm

Physical data

Copper Content	1,82	kg/km
Cable Weight	2,24	kg/km