

Description

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



Data Sheet

SAT501



| | | | | |
|--------------|---------------|---------------------|----------------|---------------|
| 0,80 (Cu) | 3,50 (PEG) | 3,60 (Al/Pet/Al) | 4,00 (CuSn) | 5,00 (PVC) |
|--------------|---------------|---------------------|----------------|---------------|

Constructive data

| | | |
|--|-------------|----------------|
| Inner conductor of plain copper | (Cu) | 0,80 ± 0,02 mm |
| Dielectric of physical foam polyethylene | (PEG) | 3,50 ± 0,10 mm |
| Water repellent sealing (dielectric) | (Jelly1) | |
| Aluminium/Polyester/Aluminium tape longitudinally overlapped | (Al/Pet/Al) | |
| Braid of tinned copper wires | (CuSn) | |
| Braid optical coverage (IEC 96-1) | | 47 % |
| Diameter under Sheath | | 4,00 mm |
| Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B) | (PVC) | 5,00 ± 0,10 mm |

Printed each meter by black ink-jet :

CAVEL SAT 501 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)

Electrical data

| | | | |
|---|--------|------------|--------------------|
| Characteristic impedance (@ 200 MHz) | | 75 ± 3 | Ohm |
| Capacitance (@1kHz) | | 52 ± 2 | pF/m |
| Velocity factor | | 85 % | |
| Inner conductor resistance | | 35 | Ohm/km |
| Outer conductor resistance | | 26 | Ohm/km |
| Loop resistance | | 61 | Ohm/km |
| Insulation voltage of the sheath (spark test) | | 2,50 | kV |
| Maximum current (I _{eff}) | | 4,00 | 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) | | | Transfer impedance |
| 30 - 1000 MHz | >80 dB | 5 - 30 MHz | 1,2 mOhm/m |
| 1000 - 2000 MHz | >80 dB | | |
| 2000 - 3000 MHz | >75 dB | | |

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Date

11/07/2008

Responsible

Pierpaolo Piccinini

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Coaxial Cables

CAVEL®

since 1968

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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 | | |

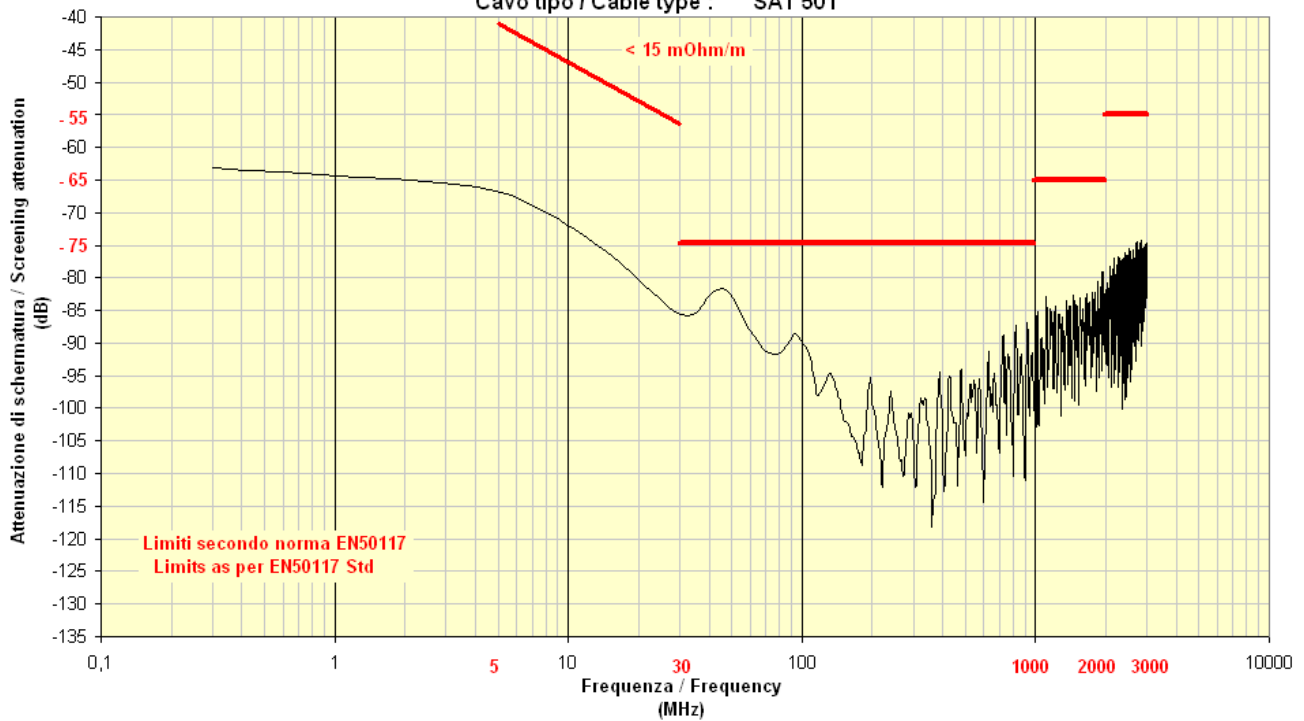
Mechanical data

| | | |
|--|-------|-------|
| Weight of copper conductors | 8,90 | kg/km |
| Total weight of cable | 23,60 | kg/km |
| Minimum bending radius (single/repeated bending) | 25/50 | mm |
| Max. cable pulling strength | 90 | N |

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT 501



Connector

| | |
|----------------|--|
| FA501 | F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm |
| F501 | F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm |
| FC501 | F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm |
| BNCC501 | BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm |

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