

Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable



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

EN 50117-2-4

Reaction to Fire

EN50575

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 - black - 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 EN50117-2-4 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 | 23,71 | kg/km |
| Minimum bending radius (single/repeated 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 |

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Responsible

PierPaolo Piccinini

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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

| | |
|-----------------|--------|
| 30 - 1000 MHz | >80 dB |
| 1000 - 2000 MHz | >80 dB |
| 2000 - 3000 MHz | >75 dB |

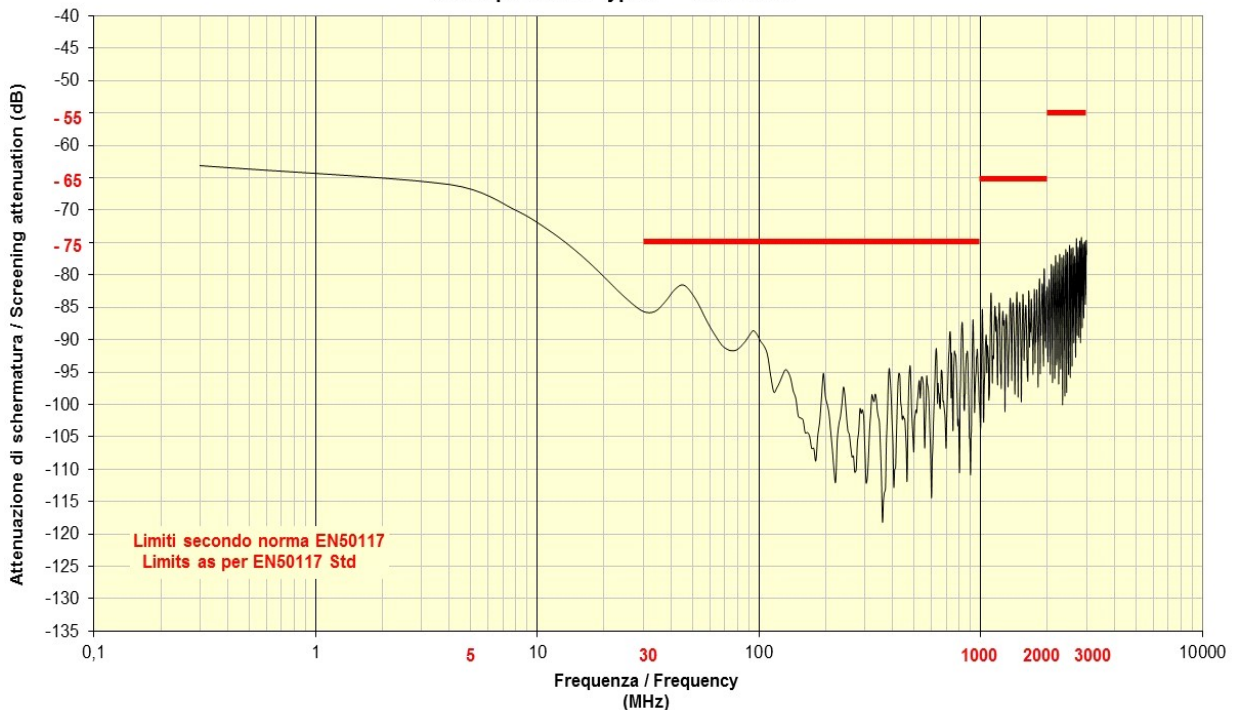
Attenuation (at 20°C)

| 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 | | |

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

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



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**Data Sheet****SAT501N****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 |
| FCM5.0C | 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 |

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