

Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT703B

| | | | | | |
|---|------|-------|-------------|--------|-------|
| Ø | 1,13 | 4,80 | 4,90 | 5,30 | 6,60 |
| | (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 1,13 ± 0,02 | mm |
| Dielectric of physical foam polyethylene | (PEG) | Ø 4,80 ± 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) | | 45 | % |
| Diameter over Braid | | Ø 5,30 | mm |
| Outer sheath of Polyvinylchloride - white (PVC) - lead-free | (PVC) | Ø 6,60 ± 0,10 | mm |

Printed each meter by blue ink-jet :

CAVEL SAT 703 B MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m

(ss=week, aa=year) (m=meter marking)

Physical data

| | | |
|--|-----------|-------|
| Weight of copper conductors | 14,45 | kg/km |
| Total weight of cable | 39,53 | kg/km |
| Minimum bending radius (single/repeated bending) | 35/70 | mm |
| Maximum cable pulling strength | 150 | 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 | | 18 | Ohm/km |
| Outer conductor resistance | | 22 | Ohm/km |
| Loop resistance | | 40 | Ohm/km |
| Sheat Insulation voltage (spark test) | | 3 | kV |
| Maximum current (Ieff) | | 8 | A |

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Date

29/02/2016

Responsible

Alberto Scardovi

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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

Shield Transfer Impedance (Zt)

Zt-Class C

| | |
|-----------------|---------|
| 30 - 1000 MHz | > 80 dB |
| 1000 - 2000 MHz | >80 dB |
| 2000 - 3000 MHz | >65 dB |

5 - 30 MHz

< 23 mOhm/m

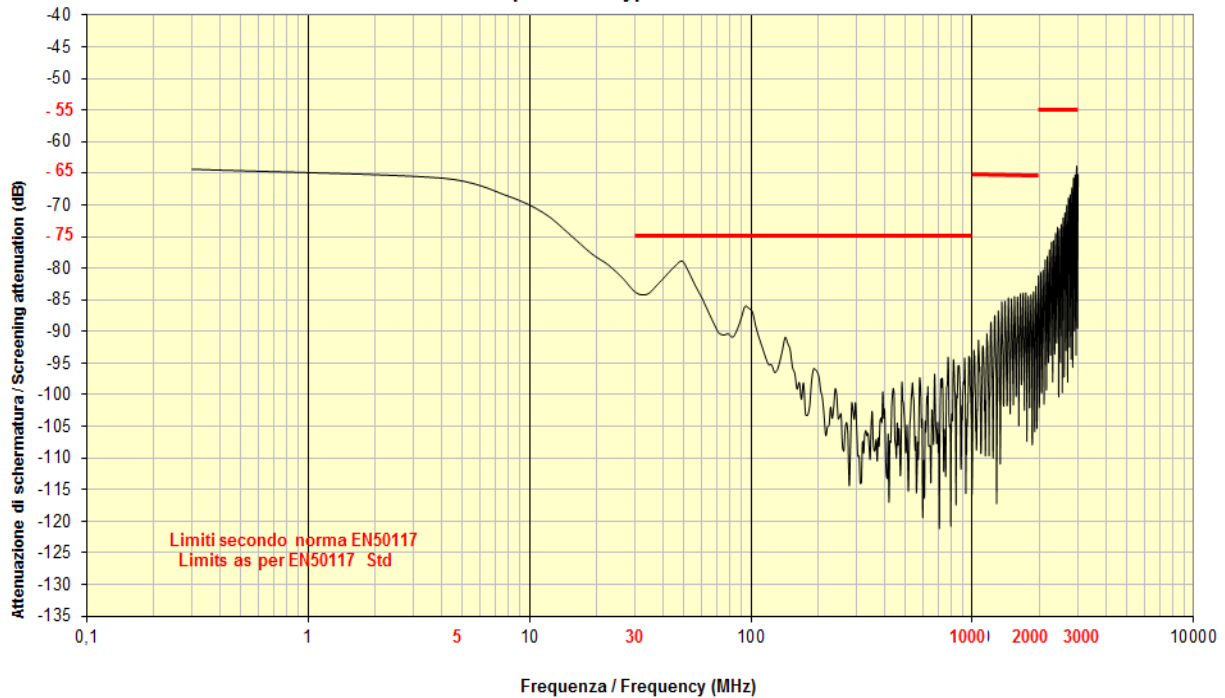
Attenuation (at 20°C)

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5 | 1,60 | 862 | 17,10 |
| 10 | 2,10 | 1000 | 18,50 |
| 30 | 3,20 | 1750 | 24,90 |
| 50 | 4,10 | 2150 | 27,90 |
| 200 | 7,90 | 2400 | 29,60 |
| 300 | 9,80 | 3000 | 33,40 |
| 470 | 12,40 | | |

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type: SAT703B



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**Data Sheet****SAT703B****Connectors**

| | |
|-----------------|---|
| BNCC703 | Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm |
| F703 | Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm |
| F90 | Series F Crimp, F Crimp, for INDOOR installation |
| FA703 | Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm |
| FC7.0QM | Series F Compression, Quick Mount, for OUTDOOR installation |
| FC703 | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm |
| FCEM7.0C | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass |
| FCPO5.1C | Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass |
| FR703 | Series F Crimp, F crimp, "Rapid", for INDOOR installation |
| IECF5.1C | Series IEC (toolless), female, no tool, for INDOOR installation |
| IECF90C | Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation |
| IECF703 | Series IEC Compression, female, no tool, for OUTDOOR installation |
| IECM5.1C | Series IEC (toolless), male, no tool, for INDOOR installation |
| IECM90C | Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation |
| IECMC703 | Series IEC Compression, male, for OUTDOOR installation |
| FC703C | Series F Compression, F Compression, for OUTDOOR installation |

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