

Description

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

Coaxial Cables

CAVEL

since 1968

Data Sheet

SAT703B

1,13 (Cu)	4,80 (PEG)	4,90 (Al/Pet/Al)	5,30 (CuSn)	6,60 (PVC)
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Construction data

Inner conductor of plain copper	(Cu)	1,13 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 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)		45 %
Diameter under Sheath		5,30 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	6,60 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL SAT 703 B 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 Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		22	Ohm/km
Loop resistance		40	Ohm/km
Insulation voltage of the sheath (spark test)		3	kV
Maximum current (Ieff)		8,00	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)

30 - 1000 MHz	>80 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>70 dB

Transfer impedance

up to 5 - 30 MHz < 1,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Date

27/02/2012

Responsible

Pierpaolo Piccinini

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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		

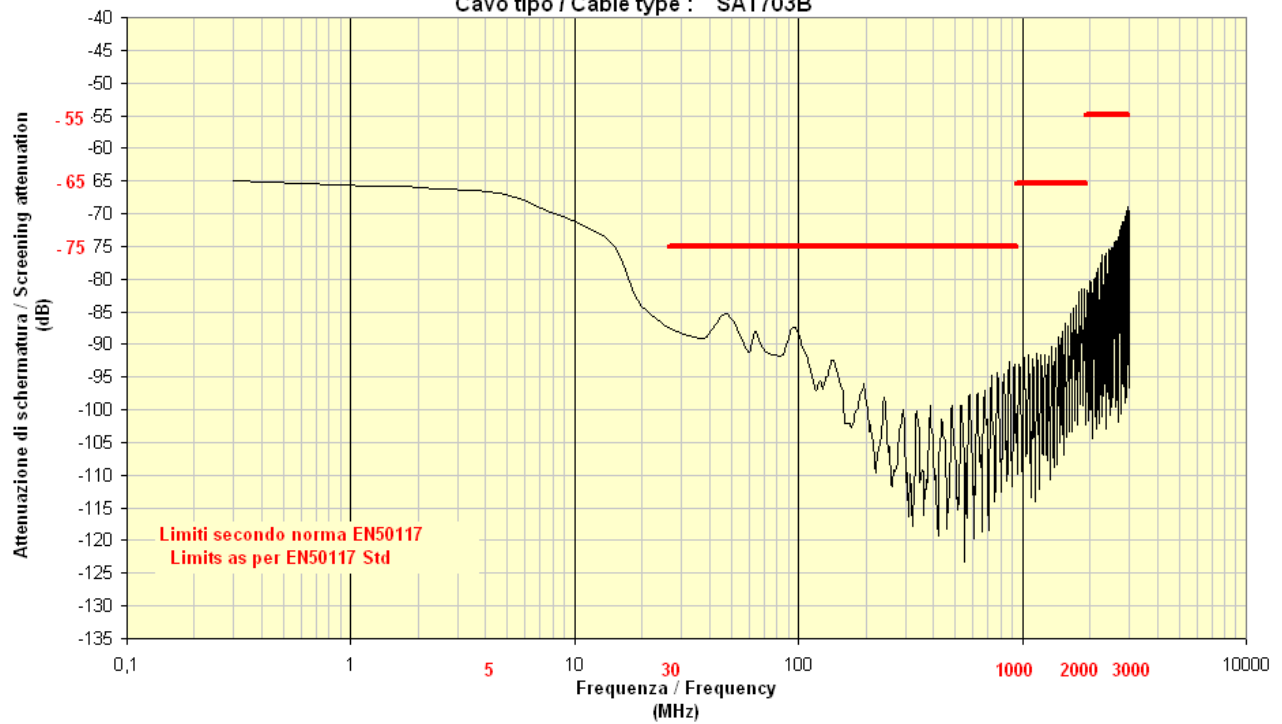
Mechanical data

Weight of copper conductors	14,45	kg/km	
Total weight of cable	39,53	kg/km	
Minimum bending radius (single/repetead bending)	35/70	mm	
Maximum cable pulling strength	150	N	
Fire Load	619	MJ/km	172 kWh/km

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT703B



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**Data Sheet****SAT703B****Connector**

- FA703** Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- F703** Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- BNCC703** Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
- IECF90C** Series IEC (no tool), 90°, female, Self-Install, for indoor installation
- IECM90C** Series IEC (no tool), 90°, male, no tool, for indoor installation
- FCPO5.1C** Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
- FC703** Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
- FC7.0QM** Series F Compression, Quick Mount, for outdoor installation
- IECF703** Serie IEC Compression, female, no tool, for outdoor installation
- IECM703** Serie IEC Compression, male, for outdoor installation
- IECF5.1C** Series IEC (no tool), female, no tool, for indoor installation
- IECM5.1C** Series IEC (no tool), male, no tool, for indoor installation

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