

Description

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT50M



1,00 (Cu)	4,75 (PEG)	4,82 (Al/Pet)	5,22 (CuSn)	6,60 (PVC)
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Constructive data

Inner conductor of plain copper	(Cu)	1,00 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,75 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		38 %
Diameter under Sheath		5,22 mm
Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B)	(PVC)	6,60 ± 0,10 mm

Printed each meter by black ink-jet :

CAVEL SAT 50 M 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)		54 ± 2	pF/m
Velocity factor		82 %	
Inner conductor resistance		22,50	Ohm/km
Outer conductor resistance		33	Ohm/km
Loop resistance		55,50	Ohm/km
Insulation voltage of the sheath (spark test)		3	kV
Maximum current (I _{eff})		6,00	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	>75 dB	5 - 30 MHz	6 mOhm/m
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>67 dB		

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

02/09/2008

Responsible

PierPaolo Piccinini

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,00	862	18,80
10	2,80	1000	20,40
30	3,80	1750	27,80
50	4,60	2150	31,10
200	8,60	2400	33,30
300	10,50	3000	37,70
470	13,60		

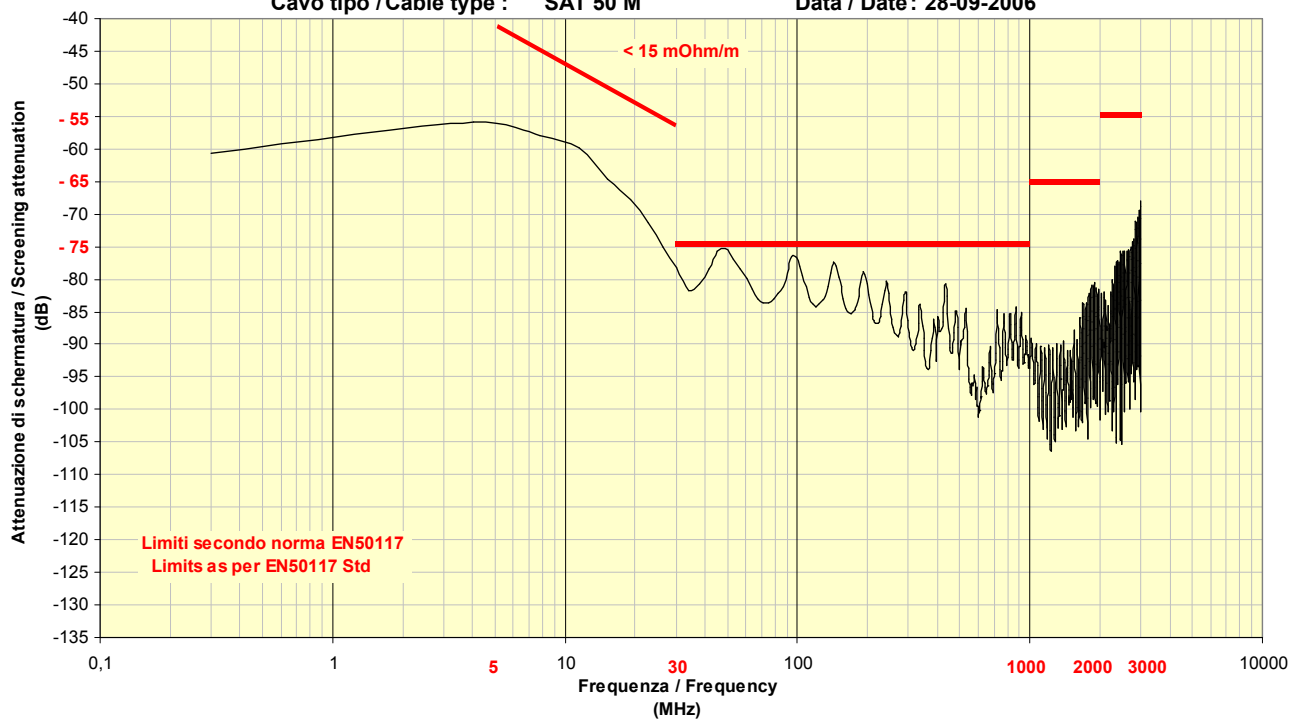
Mechanical data

Weight of copper conductors	11,40	kg/km
Total weight of cable	38,60	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Max. cable pulling strenght	150	N

Attenuazione di schermatura / Screening Attenuation**Cavo classe B / B Class Cable**

Cavo tipo / Cable type : SAT 50 M

Data / Date : 28-09-2006

**Connector**

FA703	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
F703	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
FC703	F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm
BNCC703	BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm

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