

Ø	0,05 (Pet)	0,05	11,50 x 9,80 (PVC)
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Construction data

Alluminio/Polyester tape spirally wound	(Pet)	
Outer sheath of Polyvinylchloride - black	(PVC)	11,50 x 9,80 ± 0,25 mm

Printed each meter by yellow ink-jet :

CAVEL SAT 50 M DFN 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)

Mechanical data

Weight of copper conductors	24,03	kg/km	
Total weight of cable	108,03	kg/km	
Fire Load	1.608	MJ/km	447 kWh/km

StandardsCAI RNE 678 (as per
EN50117-2-4)**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), Ø 5,1 90° female, for indoor installation
IECM90C	Series IEC (no tool), Ø 5,1 90° male, 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
IECMC703	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

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

Responsible

Description

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT50M

SAT50MDF2N



Ø	1,00	4,80	4,87	5,27	6,60
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(PVC)

Construction data

Inner conductor of plain copper	(Cu)	1,00 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 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)		37 %
Diameter under Sheath		5,27 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	6,60 ± 0,10 mm

Printed each meter by blue 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	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	>75 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>67 dB

Transfer impedance

5 - 30 MHz 6 mOhm/m

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16/07/2012

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PierPaolo Piccinini

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 Indoor installation cable (Screening Class B)



Data Sheet

SAT50M
 SAT50MDF2N

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	11,38	kg/km	
Total weight of cable	38,68	kg/km	
Minimum bending radius (single/repetead bending)	35/70	mm	
Maximum cable pulling strength	150	N	
Fire Load	773	MJ/km	215 kWh/km

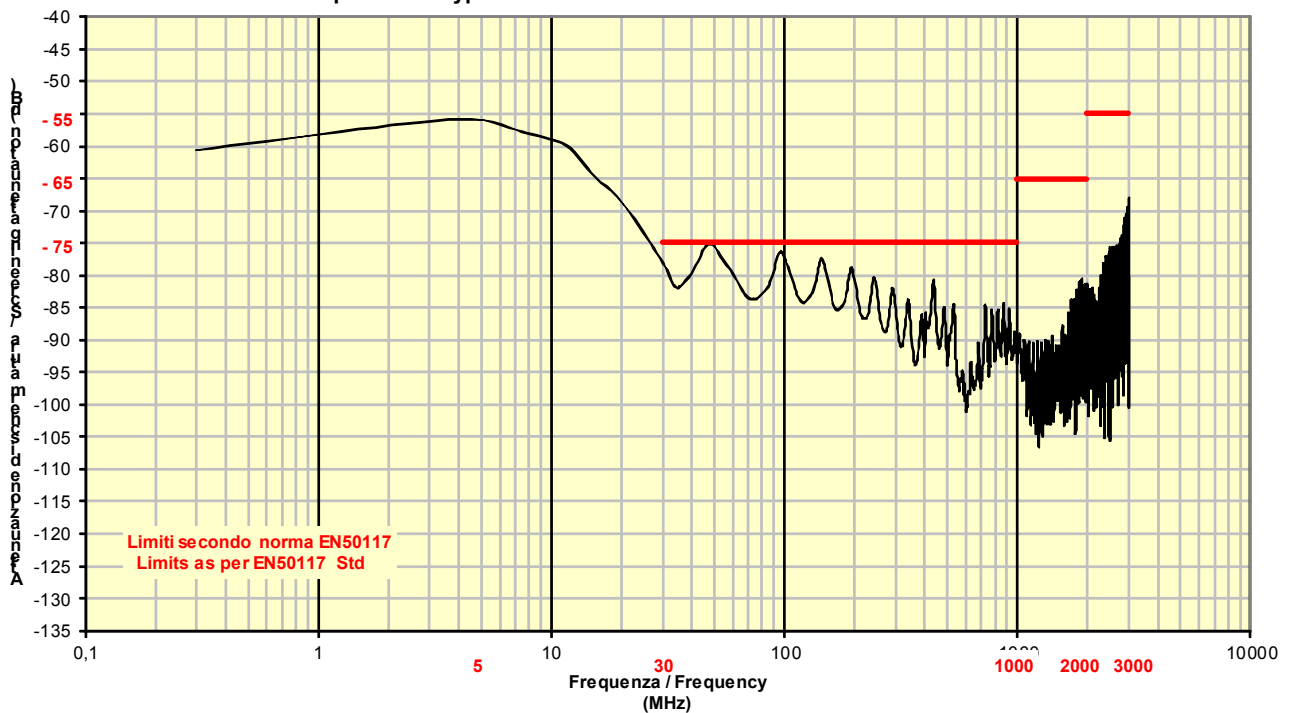
Standards

EN 50117-2-4

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

Cavo tipo / Cable type : SAT 50 M

Data / Date : 08/2006



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Description

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

**Data Sheet**

SAT50M
 SAT50MDF2N

Connector

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