

## Description

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

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

SAT50M



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

## Standards

EN 50117-2-4

## Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene	55 % (PEG)	Ø 4,80 ± 0,10	mm
Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)	18 x 9/19	mm/µm
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)	16 x 4 x 0,10	mm
Lay length of braid		54	mm
Braid optical coverage (IEC 96-1)		37	%
Diameter under Sheath		5,27	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 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)

## Physical data

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

## Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		54 ± 2	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		22,50	Ohm/km
Outer conductor resistance		33	Ohm/km
Loop resistance		55,50	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (Ieff)		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		

## ITALIANA CONDUTTORI s.r.l.

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

## Date

29/02/2016

## Responsible

PierPaolo Piccinini

## Description

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Screening Attenuation (SA)

SA-Class B

Shield Transfer Impedance (Zt)

Zt-Class N.C.

30 - 1000 MHz

&gt;75 dB

5 - 30 MHz

&lt; 85 mOhm/m

1000 - 2000 MHz

&gt;80 dB

2000 - 3000 MHz

&gt;70 dB

Attenuation (at 20°C )

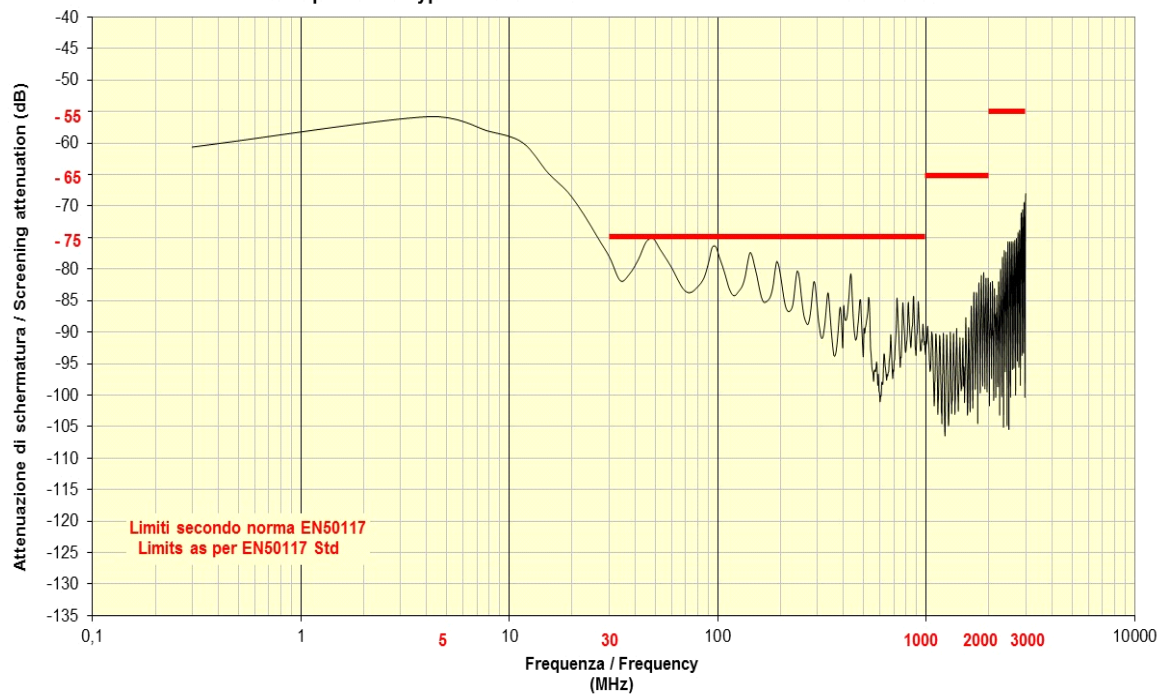
Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,00	862	18,80
10	2,80	1000	20,40
30	3,80	1750	27,80
50	4,60	2150	31,10
200	8,60	2400	33,30
300	10,50	3000	37,70
470	13,60		

## Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT 50 M

Data / Date : 28-09-2006



## Connectors

<b>FA703</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F703</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>IECF5.1C</b>	Series IEC (no tool), female, no tool, for indoor installation
<b>IECM5.1C</b>	Series IEC (no tool), male, no tool, for indoor installation
<b>IECF90C</b>	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
<b>IECM90C</b>	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
<b>FCPO5.1C</b>	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass

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<b>FC7.0QM</b>	Series F Compression, Quick Mount, for outdoor installation
<b>FCEM5.0C</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass
<b>FC703</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>IEFC703</b>	Serie IEC Compression, female, no tool, for outdoor installation
<b>IECMC703</b>	Serie IEC Compression, male, for outdoor installation
<b>BNCC703</b>	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm

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