

Description

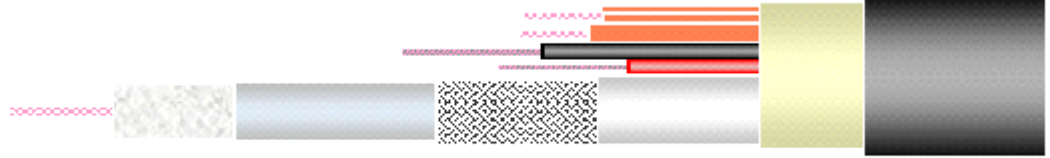
Multimedia Cable

Coaxial Cables

CAVEL

since 1968

Data Sheet

SAT50MDF2N

Ø

11,50x9,80

(Pet)

(PVC)

StandardsCAI RNE 678 (as per
EN50117-2-4)**Construction data**

Alluminio/Polyester tape spirally wound

(Pet)

Attached Data Sheet

SAT50M

CE22

CE23

CT19

CT20

Outer sheath of Polyvinylchloride - black

(PVC)

Ø 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)

Physical 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

Connectors**FCEM7.0C**

Series F Compression, F Compression, for outdoor installation, nitin-plated brass

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

IECF5.1C

Series IEC (no tool), female, no tool, for indoor installation

IECM5.1C

Series IEC (no tool), male, no tool, for indoor installation

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

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

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

Alberto Scardovi

Description

Multimedia Cable

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**SAT50MDF2N****↑↑↑ Connectors**

- IEFC703** Serie IEC Compression, female, no tool, for outdoor installation
- IECMC703** Serie IEC Compression, male, for outdoor installation
- BNCC703** Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm

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Tel +39-382.815150 Fax +39-0382.814212**Date****29/02/2016****Responsible****Alberto Scardovi**

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)

Standards

EN 50117-2-4

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene	0,02 (PEG)	Ø 4,80 ± 0,10	mm
Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
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)	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 (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		

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PierPaolo Piccinini

Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable (Screening Class B)

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Data Sheet

SAT50M

SAT50MDF2N

Screening Attenuation (SA)

SA-Class B

30 - 1000 MHz	>75 dB	---
1000 - 2000 MHz	>80 dB	
2000 - 3000 MHz	>70 dB	

Attenuation (at 20°C)

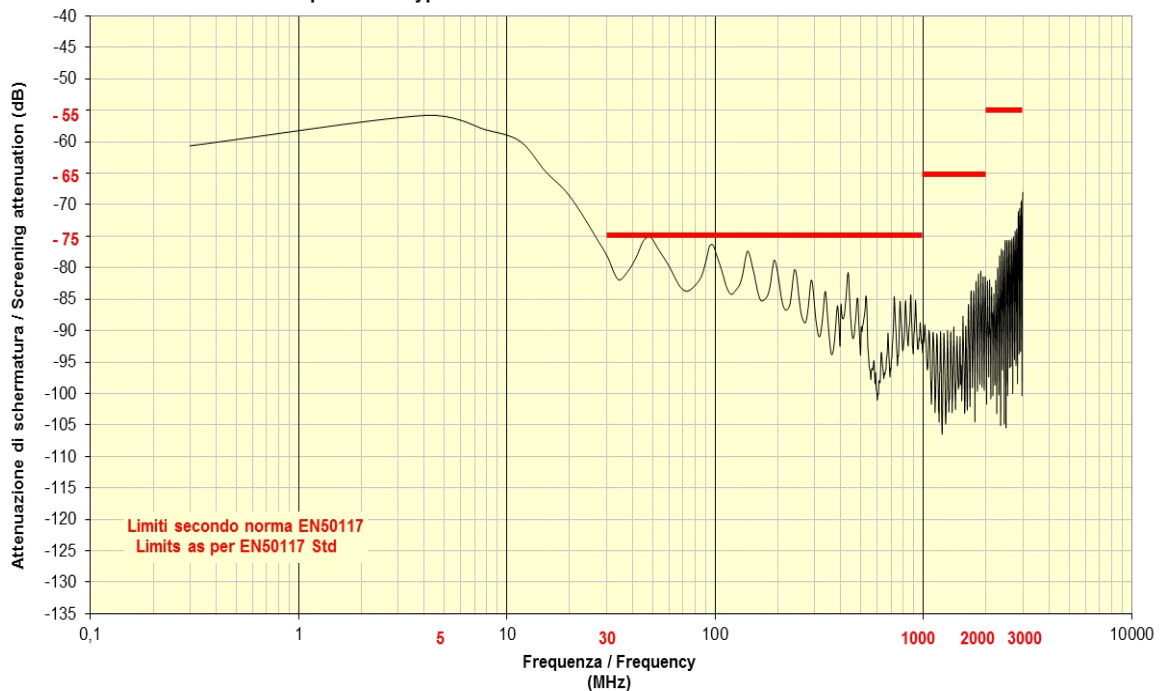
Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,00	862	18,80
10	2,80	1000	20,40
30	3,80	1750	27,80
50	4,60	2150	31,10
200	8,60	2400	33,30
300	10,50	3000	37,70
470	13,60		

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT 50 M

Data / Date : 28-09-2006



Connectors

FCEM5.0C	Series F Compression, F Compression, for outdoor installation, nitin-plated brass
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
IECF5.1C	Series IEC (no tool), female, no tool, for indoor installation
IECM5.1C	Series IEC (no tool), male, no tool, for indoor installation
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

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Description

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable (Screening Class B)

**Data Sheet****SAT50M**

SAT50MDF2N

↑↑↑ **Connectors**

FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
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
IECFC703	Serie IEC Compression, female, no tool, for outdoor installation
IECMC703	Serie IEC Compression, male, for outdoor installation
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DescriptionElectrical wire 0,5 mm²

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Data Sheet**CE22**

SAT50MDF2N

16x0,19



Ø

0,80

(Cu)

1,80

(LSZH)

Construction data

Electrical conductor of stranded bare copper wires 0,50 mm ²	(Cu)	16x0,19	Ø 0,80	mm
Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 1,80	mm

Physical data

Weight of copper conductors	4,10	kg/km
Total weight of cable	7,60	kg/km

Electrical data

Conductor resistance @ 20°C	39	Ohm/km
Maximum current (I _{eff})	6	A

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DescriptionElectrical wire 0,5 mm²

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Data Sheet**CE23**

SAT50MDF2N

16x0,19



∅

0,80

(Cu)

1,80

(LSZH)

Construction data

Electrical conductor of stranded bare copper wires 0,50 mm ²	(Cu)	16x0,19	∅ 0,80	mm
Outer sheath of Thermoplastic material - red (RAL 3000) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		∅ 1,80	mm

Physical data

Weight of copper conductors	4,10	kg/km
Total weight of cable	7,60	kg/km

Electrical data

Inner conductor resistance	39	Ohm/km
Maximum current	6	A

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