

Description

Halogen free, low smoke emission and UV resistant coaxial cable -
75 Ohm
Security sheath of LSZH material (Screening Class B)



Data Sheet

SAT703ZH



Ø	1,13	4,80	4,90	5,30	6,60
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(LSZH)

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 Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant	(LSZH)	6,60 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL SAT 703 ZH MADE IN ITALY 75 Ohm EN50117-2-5 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 Factor		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	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

5 - 30 MHz	1,5 mOhm/m
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ITALIANA CONDUTTORI s.r.l.

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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	42,03	kg/km	
Minimum bending radius (single/repetead bending)	35/70	mm	
Maximum cable pulling strength	150	N	
Fire Load	601	MJ/km	167 kWh/km

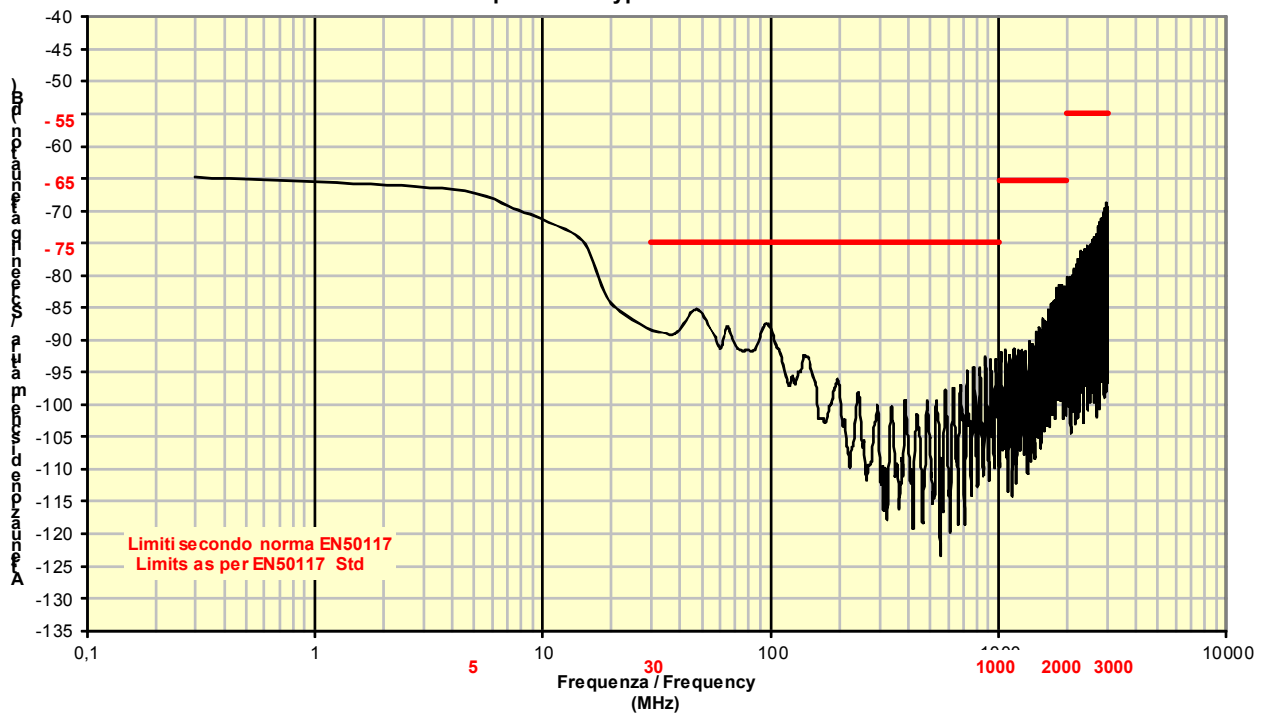
Standards

EN 50117-2-5

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT703ZH



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**Data Sheet****SAT703ZH****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
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
FR703	Series F Crimp, F crimp, "Rapid", for indoor installation
F90	Series F Crimp, F Crimp, for indoor installation

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