

Description

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



Data Sheet

SAT703ZH



1,13 (Cu)	4,80 (PEG)	4,90 (Al/Pet/Al)	5,30 (CuSn)	6,60 (LSZH)
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Constructive 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 (Q8)	(LSZH)	6,60 ± 0,10 mm

Printed each meter by black 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)	8,00	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)

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

Transfer impedance
5 - 30 MHz 1,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

11/07/2008

Responsible

PierPaolo Piccinini

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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		

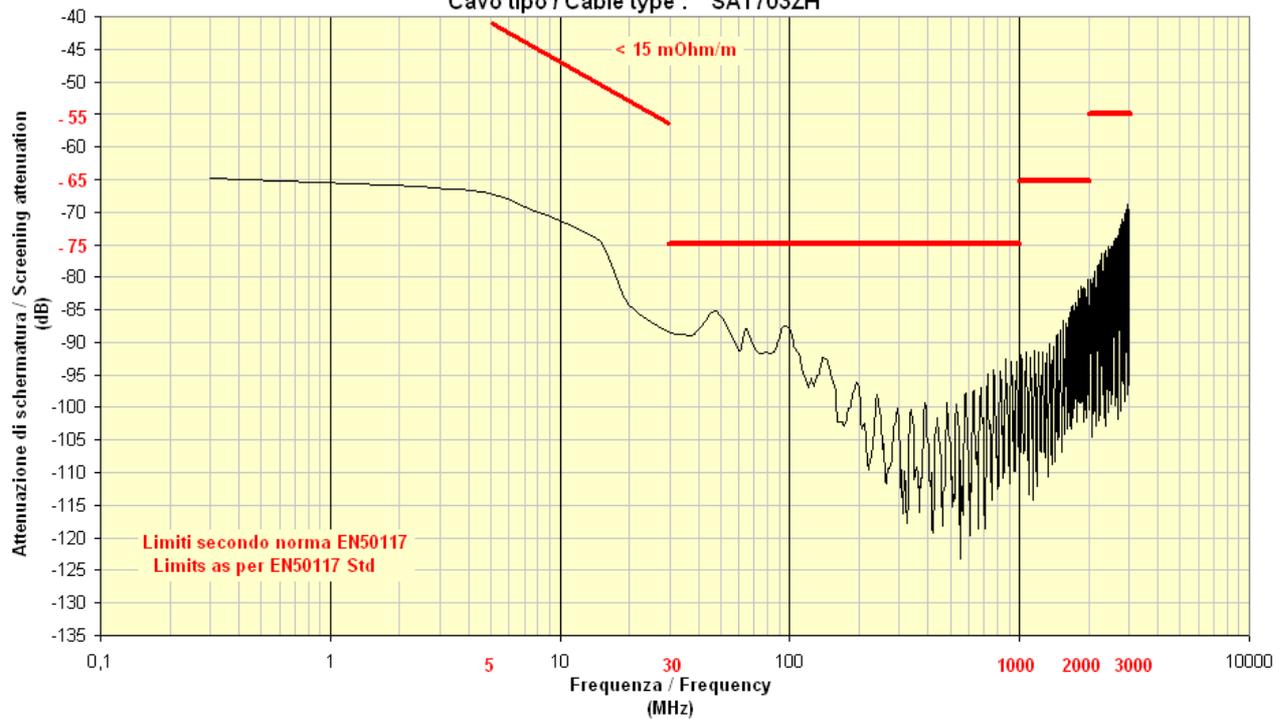
Mechanical data

Weight of copper conductors	14,45	kg/km
Total weight of cable	40,50	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Max. cable pulling strength	150	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type : SAT703ZH



Connector

F703	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
FA703	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 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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