

## Description

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

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

SAT703ZH



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

## Class CPR acc. to UE 305/2011 (DoP)

D<sub>ca</sub> s2 d2 a1

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

## Standards

EN 50117-2-5

## Fire-Resistance Rating

EN50575

## Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		45	%
Diameter over Braid		Ø 5,30	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL SAT 703 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

## Physical data

Weight of copper conductors	14,45	kg/km
Total weight of cable	42,03	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

## Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		22	Ohm/km
Loop resistance		40	Ohm/km

## ITALIANA CONDUTTORI s.r.l.

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

## Date

20/12/2017

## Responsible

Alberto Scardovi

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Sheat Insulation voltage (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)	SA-Class B	Shield Transfer Impedance (Zt)	Zt-Class C
30 - 1000 MHz	>80 dB	5 - 30 MHz	< 23 mOhm/m
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>65 dB		

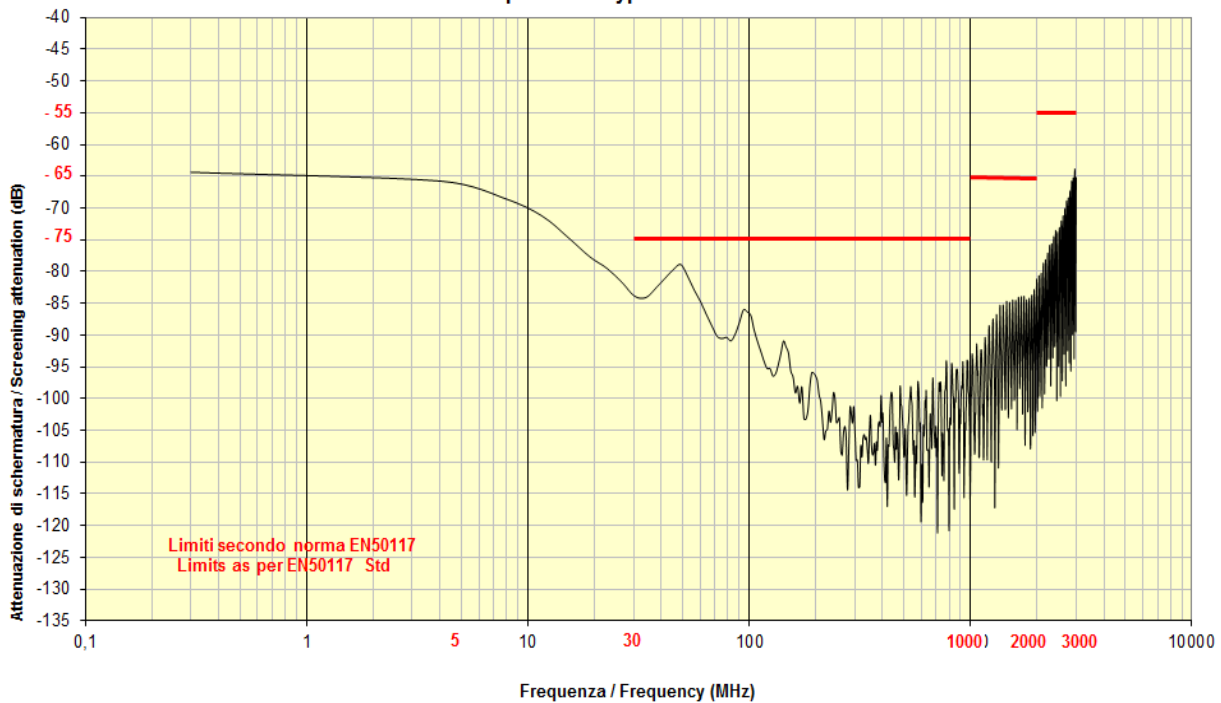
Attenuation (at 20°C )

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		

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe B / B Class Cable**

Cavo tipo / Cable type: SAT703ZH



**Connectors**

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↑↑↑ **Connectors**

<b>BNCC703</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>F703</b>	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F90</b>	Series F Crimp, F Crimp, for INDOOR installation
<b>FA703</b>	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FC7.0QM</b>	Series F Compression, Quick Mount, for OUTDOOR installation
<b>FC703</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FCEM7.0C</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
<b>FCPO5.1C</b>	Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass
<b>FR703</b>	Series F Crimp, F crimp, "Rapid", for INDOOR installation
<b>IECF5.1C</b>	Series IEC (toolless), female, no tool, for INDOOR installation
<b>IECF90C</b>	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
<b>IECF703</b>	Series IEC Compression, female, no tool, for OUTDOOR installation
<b>IECM5.1C</b>	Series IEC (toolless), male, no tool, for INDOOR installation
<b>IECM90C</b>	Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation
<b>IECMC703</b>	Series IEC Compression, male, for OUTDOOR installation

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