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

CAVEL Code:

SAT703ZH

CONSTRUCTIVE DATA

Inner conductor of plain copper	(Cu)	Ø 1,13 mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper litz wires	(CuSn)	Ø
Braid optical coverage (IEC 96-1)		44 %
Outer sheath of Thermoplastic material grey (RAL 7001) halogen-free, flame retardant and UV-resistant (Q8)	(LSZH)	Ø 6.60 ± 0.10 mm

printed each meter by black ink-jet : (ss=week, aa=year) (m=meter marking)

CAVEL SAT 703 ZH MADE IN ITALY 75 Ohm EN50117-2-5 ss/aa m



MECHANICAL PARAMETERS

Weight of copper conductors	15,50	kg/km
Total weight of cable	41,50	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Max. cable pulling strenght	150	N

ELECTRICAL PARAMETERS

Characteristic impedance (@ 200 MHz)	75,00 ± 3,00	Ohm
Capacitance (@1kHz)	52,00 ± 2,00	pF/m
Velocity factor	85 %	
Inner conductor resistance	18,0	Ohm/km
Outer conductor resistance	20,0	Ohm/km
loop Resistance	38,0	Ohm/km
Maximum current (Ieff)	8,0	A
Insulation voltage of the sheath (spark test)	3,0	kV
Standard:	EN50117-2-5	

-Attenuation-

Frequency (MHz)	5	10	30	50	200	300	470	862	1000	1750	2150	2400	3000
dB/100m	1.90	2.60	3.50	4.40	8.30	10.10	12.80	17.50	18.90	25.50	28.40	30.00	34.00

Structural return loss (SRL)

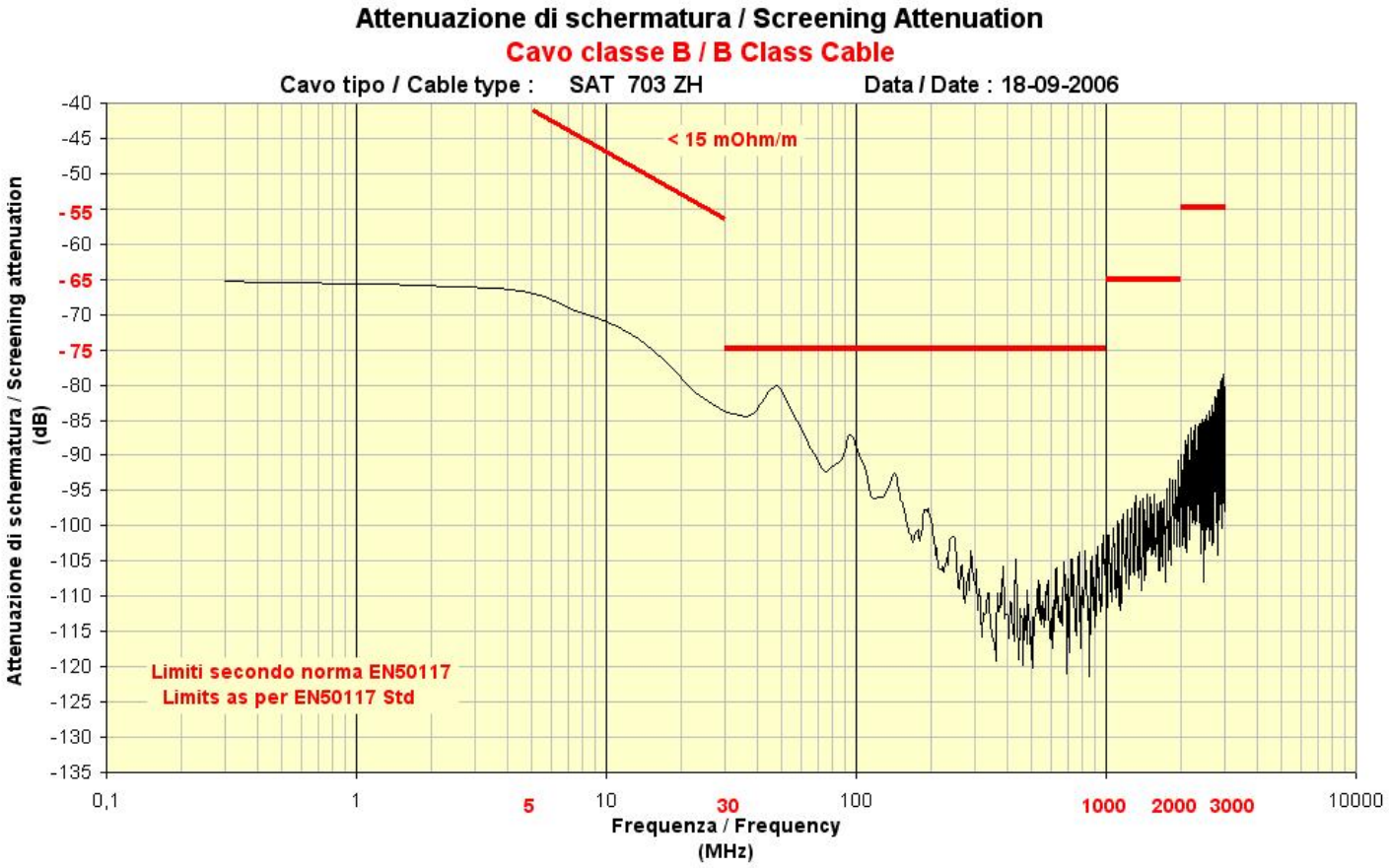
5 - 470 MHz >30 dB
470 - 1000 MHz >28 dB
1000 - 2000 MHz >26 dB
2000 - 3000 MHz >22 dB

Transfer impedance

5 - 30 MHz 1,5 mOhm/m

Screening attenuation (SA)

30 - 1000 MHz >80 dB
1000 - 2000 MHz >90 dB
2000 - 3000 MHz >80 dB



STANDARD PACKAGING

Mod 8A	100 m in thermoretractable material	6 coils per package = 600 m
Mod 10	250 m in thermoretractable material	2 coils per package = 500 m

CONNECTORS

FA703	F male twist-on connector for indoor installation
F703	F male crimp connector for indoor installation
FC703SL	F male compression connector for outdoor installation