

Description

Triple shielded coaxial cable for Broadband Distribution Networks - 75 Ohm
Triple shielded cable (Screening Class A++)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

TS703J



1,13	4,80	4,97	5,37	5,49	6,90
(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	AL/Pet J-foil	(PVC)

Constructive data

Inner conductor of plain copper	(Cu)	1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 0,10	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		45 %	
Outer Aluminium/Polyester j-folded and longitudinally overlapped	Al/Pet J-foil	±1,5+3,5x	30/19 µm
Diameter under Sheath		5,37	mm
Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B)	(PVC)	6,90 ± 0,20	mm

Printed each meter by black ink-jet :

CAVEL TS 703 J 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)

Electrical data

Characteristic impedance (@ 200 MHz)	75 ± 3	Ohm
Capacitance (@1kHz)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	14	Ohm/km
Loop resistance	32	Ohm/km
Insulation voltage of the sheath (spark test)	3	kV
Maximum current (I _{eff})	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	>105 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>90 dB

Transfer impedance

5 - 30 MHz < 0,1 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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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	17,20
10	2,30	1000	18,60
30	3,20	1750	25,20
50	4,10	2150	28,10
200	8,00	2400	29,70
300	9,80	3000	33,70
470	12,50		

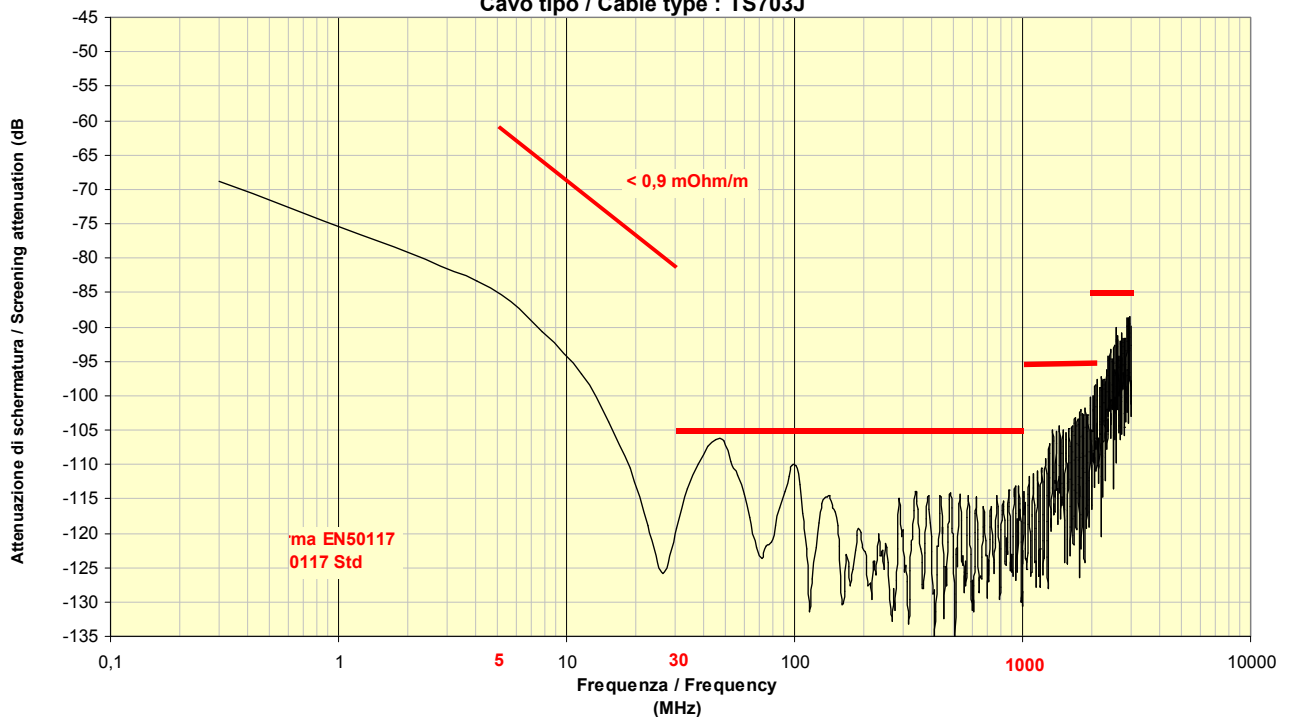
Mechanical data

Weight of copper conductors	14,60	kg/km
Total weight of cable	44,00	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Max. cable pulling strenght	150	N
Stripping force between braid and sheath over 200 mm	> 130	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS703J



Connector

FA17	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
F703	F male crimp connector for indoor installation, nitin-plated brass - 21,0 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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