

Description

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



Data Sheet

TS703J



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

Construction 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)	21,5+3,5 x 30/19	µm
Diameter under Sheath		5,49	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	6,90 ± 0,20	mm

Printed each meter by blue ink-jet :

CAVEL TS 703 J MADE IN ITALY 75 Ohm EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) * LTE PROTECTION * 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		14	Ohm/km
Loop resistance		32	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)		Transfer impedance
30 - 1000 MHz	>105 dB	5 - 30 MHz < 0,1 mOhm/m
1000 - 2000 MHz	>95 dB	
2000 - 3000 MHz	>90 dB	

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	17,20
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	14,62	kg/km	
Total weight of cable	43,87	kg/km	
Minimum bending radius (single/repetead bending)	35/70	mm	
Maximum cable pulling strength	150	N	
Stripping force between braid and sheath over 200 mm	> 130	N	
Fire Load	640	MJ/km	178 kWh/km

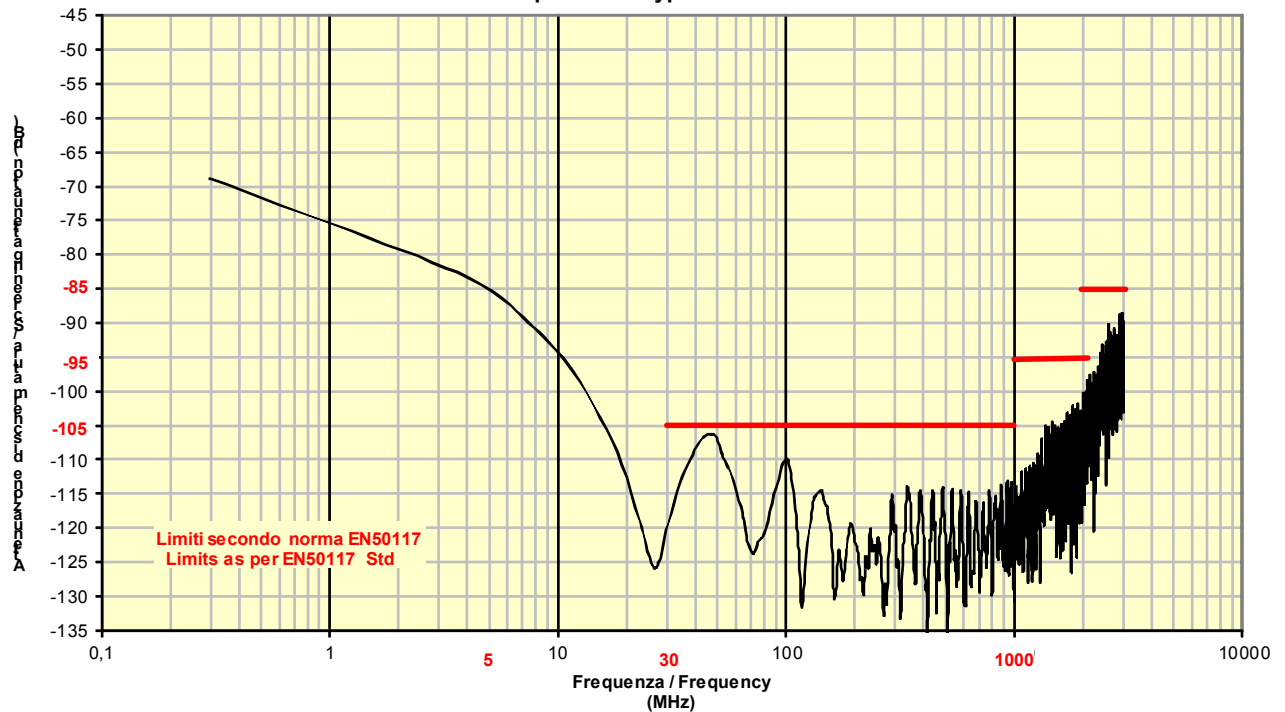
Standards

EN 50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS703J



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**Data Sheet****TS703J****Connector**

F90	Series F Crimp, F Crimp, for indoor installation
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

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