

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)

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

Eca

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 50117-2-4

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

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/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	mm/µm
Diameter over Braid		Ø 5,49	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 6,90 ± 0,20	mm

Printed each meter by blue ink-jet :

CAVEL TS 703 J MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(gggaan=batch)

Physical data

Weight of copper conductors	14,62	kg/km
Total weight of cable	43,87	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Stripping force between braid and sheath over 200 mm	> 130	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	

ITALIANA CONDUTTORI s.r.l.

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Inner conductor resistance		18	Ohm/km
Outer conductor resistance		14	Ohm/km
Loop resistance		32	Ohm/km
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 A++	Shield Transfer Impedance (Zt)	Zt-Class A
30 - 1000 MHz	>105 dB	5 - 30 MHz	< 4,5 mOhm/m
1000 - 2000 MHz	>100 dB		
2000 - 3000 MHz	>85 dB		

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		

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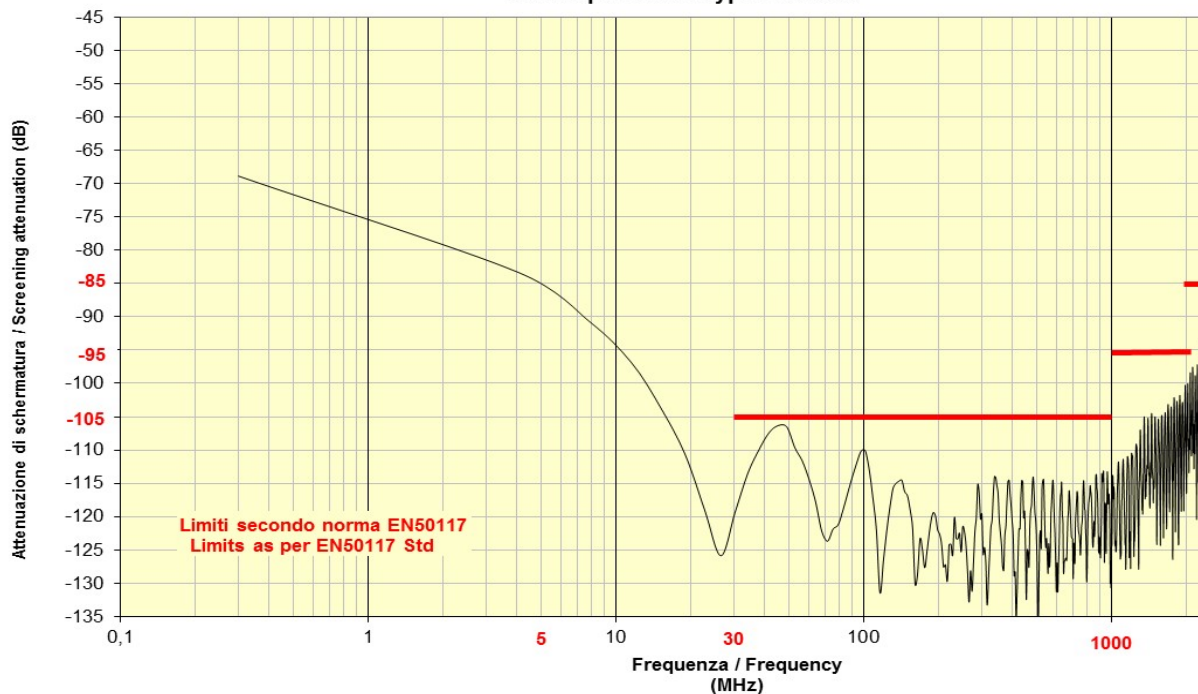
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Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS703J



Connectors

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

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