

**Description**

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



**Data Sheet**

**TS703JPE**



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

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

Fca

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

**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
Aluminum/Polyester/Aluminum/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 Aluminum/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 Polyethylene - black - with carbonblack	(PE)	Ø 6,90 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 703 J PE MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-5 Class A CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaaan m**

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

**Physical data**

Weight of copper conductors	14,63	kg/km
Total weight of cable	38,86	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	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 %	
Inner conductor resistance		18	Ohm/km

**ITALIANA CONDUTTORI s.r.l.**

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

**Date**

10/04/2019

**Responsible**

PierPaolo Piccinini

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Outer conductor resistance	14	Ohm/km
Loop resistance	32	Ohm/km
Sheat Insulation voltage (spark test)	3	kV
Maximum current (I <sub>eff</sub> )	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++	Transfer Impedance (Z <sub>t</sub> )
30 - 1000 MHz	>105 dB	5 - 30 MHz
1000 - 2000 MHz	>95 dB	
2000 - 3000 MHz	>90 dB	< 0,1 mOhm/m

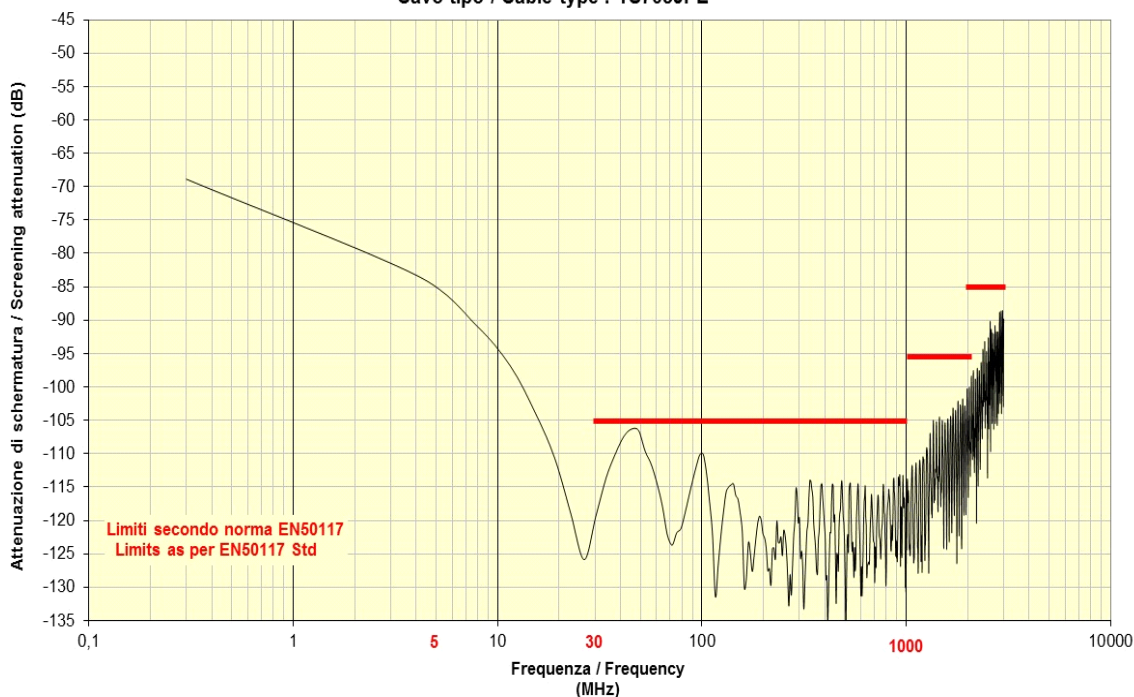
Attenuation (at 20°C )

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		

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A++ / A++ Class cable**

Cavo tipo / Cable type : TS703JPE



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**Data Sheet****TS703JPE****Connectors**

<b>BNCC5.1C</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation
<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>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>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>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>IECM703</b>	Series IEC Compression, male, for OUTDOOR installation
<b>F90</b>	Series F Crimp, F Crimp, for INDOOR installation
<b>FC703</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FR703</b>	Series F Crimp, F crimp, "Rapid", for INDOOR installation
<b>FC703C</b>	Series F Compression, F Compression, for OUTDOOR installation

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