### Description

Ø

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

4,80

(PEG)



5,49

(AL/Pet J-foil)

6,90

(PVC)

**TS703J** 



5,37

(CuSn)

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** 

EN50117-9-2 CEI-UNEL 36762

4,97

(Al/Pet/Al+Sur)

**Reaction to Fire** 

1,13

(Cu)

EN50575

**Application** 

DOCSIS 3.1 (Data Over Coax System)

4K-UHD

Indoor Installation

## **Construction data**

Inner conductor of plain copper (Cu)  $\emptyset$  1,13 ± 0,02 mm Dielectric of physical foam polyethylene (PEG)  $\emptyset$  4,80 ± 0,10 mm Aluminum/Polyester/Aluminum+Surlyn tape longitudinally (Al/Pet/Al+Sur) overlapped and bonded to the dielectric 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) Ø 5,49 Diameter under Sheath mm (PVC) Outer sheath of Polyvinylchloride - white - lead-free  $\emptyset$  6,90 ± 0,20 mm Printed each meter by blue ink-jet :

CAVEL TS 703 J MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 SA Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

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

	 1	ata	

Weight of copper conductors	14,62	kg/km
Total weight of cable	44,10	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
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

# **Electrical data**

ITALIANA CONDUTTORI s.r.l.	Date	Responsible
Viale Zanotti 90 I - 27027 Gropello Cairoli	06/09/2021	A. Bergaglio
Tel +39-382.815150 Fax +39-0382.814212		

## Description

Triple shielded coaxial cable for Broadband Distribution Networks 75 Ohm

Triple shielded cable (Screening Attenuation - Class A++)



Data Sheet

# **TS703J**

Ohm pF/m

Triple shielded cable (Screening Attendation - Class ATT)	Cables	
Characteristic impedance	200 MHz	75 ± 3
Capacitance (@1kHz)		52 ± 2

Velocity Ratio	85 %	
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 (leff)	8	Α

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 (Zt)

30 - 1000 MHz >105 dB 1000 - 2000 MHz >100 dB 2000 - 3000 MHz >85 dB 5 - 30 MHz < 4,5 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		

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Networks 75 Ohm

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TS703J

**Connectors** 

BNCC703 Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass -

35,0 mm x 14,0 mm

C75-5L Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CCFM75GI Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CS03J Stripper for Drop Cables, just for RP and TS Cables, Tools -

DR01 Adapter, Nut and Washer, for INDOOR installation

F703 Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm

F81-HQ Adapter, F Adapter FF, for INDOOR installation
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

FC703C Series F Compression, F Compression, for OUTDOOR installation

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

**FM-FF90** Adapter, FM - FF 90°, for INDOOR installation

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

IECFC703 Serie IEC Compression, female, no tool, for OUTDOOR installation

IECM5.1CSeries IEC (toolless), male, no tool, for INDOOR installationIECM90CSeries IEC (toolless), Ø 5,1 90° male, for INDOOR installationIECMC703Serie IEC Compression, male, for OUTDOOR installation

LTE790 Indoor Fittings, Filter, for INDOOR installation
 MM-F703 Adapter, F Adapter MM, for INDOOR installation
 MM-FR703 Adapter, F Adapter MM, for INDOOR installation

SAT2VS Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation

TV2VS Indoor Fittings, IEC TV 2-way Splitter, for INDOOR installation

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