

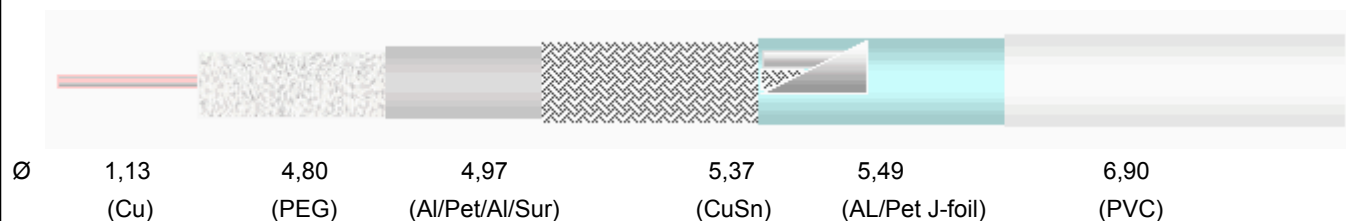
Description

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



Data Sheet

TS703J



Standards

EN 50117-2-4

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	0,02 (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 under Sheath		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 EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) * LTE PROTECTION * ss/aa m

(ss=week, aa=year) (m=meter marking)

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
Fire Load	640 MJ/km	178	kWh/km

Electrical data

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

ITALIANA CONDUTTORI s.r.l.

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

Date

29/02/2016

Responsible

PierPaolo Piccinini

Description

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



Data Sheet

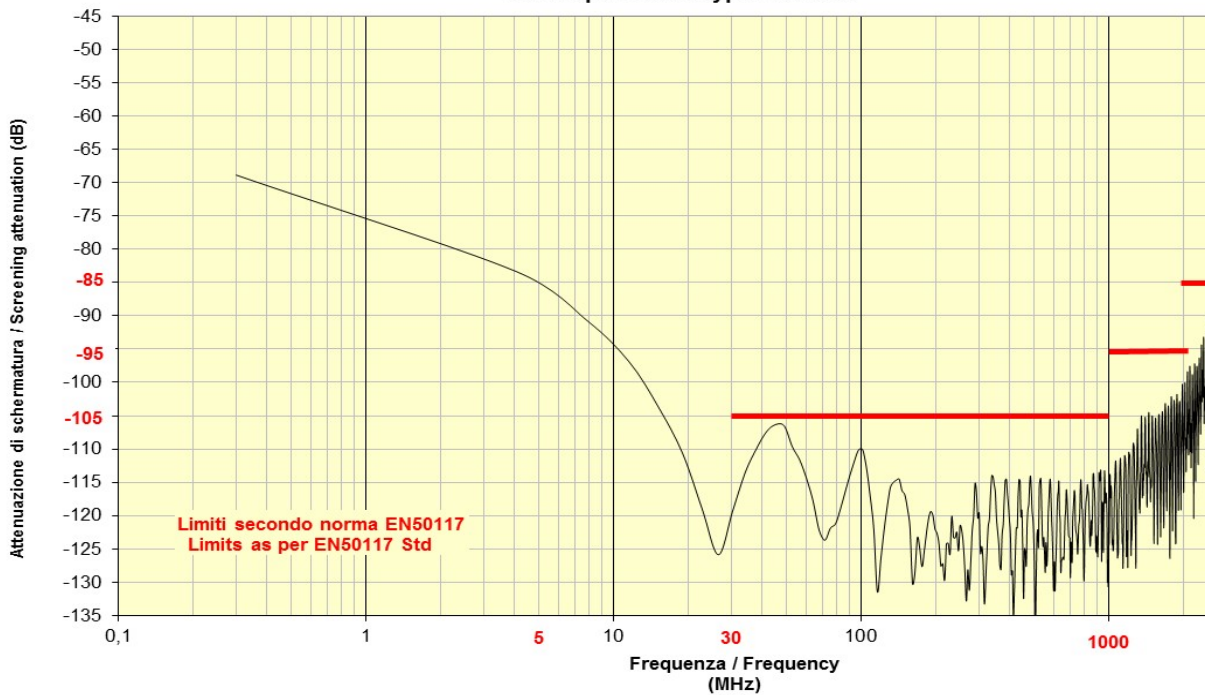
TS703J

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		

Attenuazione di schermatura / Screening Attenuation
Cavo classe A++ / A++ Class cable
Cavo tipo / Cable type : TS703J



Connectors

- FCEM7.0C** Series F Compression, F Compression, for outdoor installation, nitin-plated brass
- 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
- FR703** Series F Crimp, F crimp, "Rapid", for indoor installation
- F703** Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- IECF5.1C** Series IEC (no tool), female, no tool, for indoor installation
- IECM5.1C** Series IEC (no tool), male, no tool, for indoor installation

ITALIANA CONDUTTORI s.r.l.

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

Date

29/02/2016

Responsible

PierPaolo Piccinini

Description

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

**Data Sheet****TS703J****↑↑↑ Connectors**

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
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
IECF703	Series IEC Compression, female, no tool, for outdoor installation
IECM703	Series IEC Compression, male, for outdoor installation
BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm

ITALIANA CONDUTTORI s.r.l.

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

Date

29/02/2016

Responsible

PierPaolo Piccinini