

Description

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



Data Sheet

TS61L



Ø	1,00	4,80	4,97	5,37	5,49	6,80
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Al/Pet)	(PVC)

Standards

EN 50117-2-4

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 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 tape longitudinally overlapped	(Al/Pet)	23 x 30/19	mm/µm
Diameter under Sheath		5,49	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 6,80 ± 0,10	mm
Printed each meter by blue ink-jet :			

CAVEL TS 61 L MADE IN ITALY 75 Ohm EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) ULTRA HD / 4K ss/aa m

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

Physical data

Weight of copper conductors		12,58	kg/km
Total weight of cable		40,33	kg/km
Minimum bending radius (single/repeated bending)		35/70	mm
Maximum cable pulling strength		120	N
Fire Load	709	MJ/km	197 kWh/km

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		54 ± 2	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		22,50	Ohm/km
Outer conductor resistance		14	Ohm/km
Loop resistance		36,50	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (Ieff)		6	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		

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Responsible

Giuseppe Guastella

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Screening Attenuation (SA)	SA-Class A++	Shield Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>105 dB	5 - 30 MHz	< 2,5 mOhm/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>85 dB		

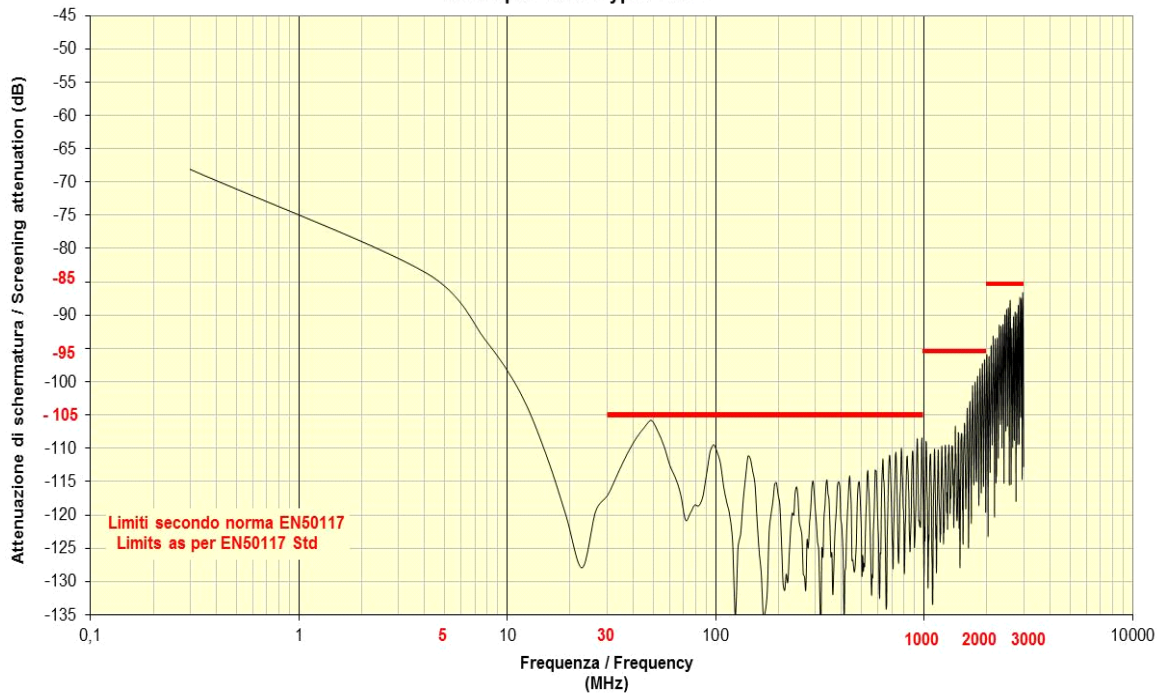
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,00	862	18,87
10	2,29	1000	20,44
30	3,47	1350	24,03
50	4,60	1750	27,76
200	8,60	2150	31,09
300	10,78	2400	32,37
470	13,68	3000	37,31
800	18,17		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type: TS61L



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
- FA17** Serie 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

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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
IECF5.1C	Series IEC (no tool), female, no tool, for indoor installation
IECF90C	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
IECF703	Serie IEC Compression, female, no tool, for outdoor installation
IECM5.1C	Series IEC (no tool), male, no tool, for indoor installation
IECM90C	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
IECM703	Serie IEC Compression, male, for outdoor installation

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