

**Description**

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

**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

**Reaction to Fire**

EN50575

**Application**

DOCSIS 3.1 (Data Over Coax System)

4K-UHD

Indoor Installation

**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
Aluminum/Polyester/Aluminum+Surlyn 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 tape longitudinally overlapped	(Al/Pet)		
Diameter under Sheath		Ø 5,49	mm
Outer sheath of Polyvinylchloride - white - 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 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)

**Physical data**

Weight of copper conductors	12,58	kg/km
Total weight of cable	43,86	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	120	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

**Electrical data**

Characteristic impedance	200 MHz	75 ± 3	Ohm
--------------------------	---------	--------	-----

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

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

Date

30/08/2021

Responsible

A. Bergaglio

**Description**

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

**Data Sheet****TS61L**

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	
Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Zt)
30 - 1000 MHz	>105 dB	5 - 30 MHz
1000 - 2000 MHz	>95 dB	< 6 mOhm/m
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		

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

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

**Date****30/08/2021****Responsible****A. Bergaglio**

**Description**

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



Data Sheet

**TS61L****Connectors**

<b>BNCC703</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>C75-5L</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CCFM75GI</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CS03J</b>	Stripper for Drop Cables, just for RP and TS Cables, Tools -
<b>DR01</b>	Adapter, Nut and Washer, for INDOOR installation
<b>F703</b>	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F81-HQ</b>	Adapter, F Adapter FF, for INDOOR installation
<b>FA17</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>FC703</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FC703C</b>	Series F Compression, F Compression, 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>FM-FF90</b>	Adapter, FM - FF 90°, for INDOOR installation
<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>LTE790</b>	Indoor Fittings, Filter, for INDOOR installation
<b>MM-F703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>MM-FR703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>SAT2VS</b>	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation
<b>TV2VS</b>	Indoor Fittings, IEC TV 2-way Splitter, for INDOOR installation

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

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

Date

**30/08/2021**

Responsible

**A. Bergaglio**