

Description

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

**Data Sheet****TS11C**

Ø	1,63	7,20	7,37	7,85	7,97	10,30
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Al/Pet)	(LSZH-FR)

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

Cca s1a,d1,a1

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 50117-2-3

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor (+ Outdoor)

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 7,20 ± 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)		63	%
Outer Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)	30 x 30/19	mm/µm
Diameter over Braid		Ø 7,97	mm
Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant	(LSZH-FR)	Ø 10,30 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 11 C MADE IN ITALY 75 Ohm Euroclass Cca s1a,d1,a1 EN50117-2-3 Class A++ CEI-UNEL
36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

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

ITALIANA CONDUTTORI s.r.l.

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

Date**08/05/2018****Responsible****Alberto Scardovi**

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75 Ohm
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**Data Sheet****TS11C****Physical data**

Weight of copper conductors	34,10	kg/km
Total weight of cable	96,70	kg/km
Minimum bending radius (single/repeated bending)	100	mm
Maximum cable pulling strength	300	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		7,50	Ohm/km
Loop resistance		16	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I _{eff})		16	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>20 dB		

Screening Attenuation (SA)	SA-Class A++	Shield Transfer Impedance (Z _t)	Z _t -Class A+
30 - 1000 MHz	> 110 dB	5 - 30 MHz	< 2,5 mOhm/m
1000 - 2000 MHz	> 110 dB		
2000 - 3000 MHz	> 90 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,90	862	10,80
10	1,30	1000	11,80
30	2,00	1750	16,10
50	2,60	2150	18,20
200	5,00	2400	19,40
300	6,20	3000	25,40
470	7,90		

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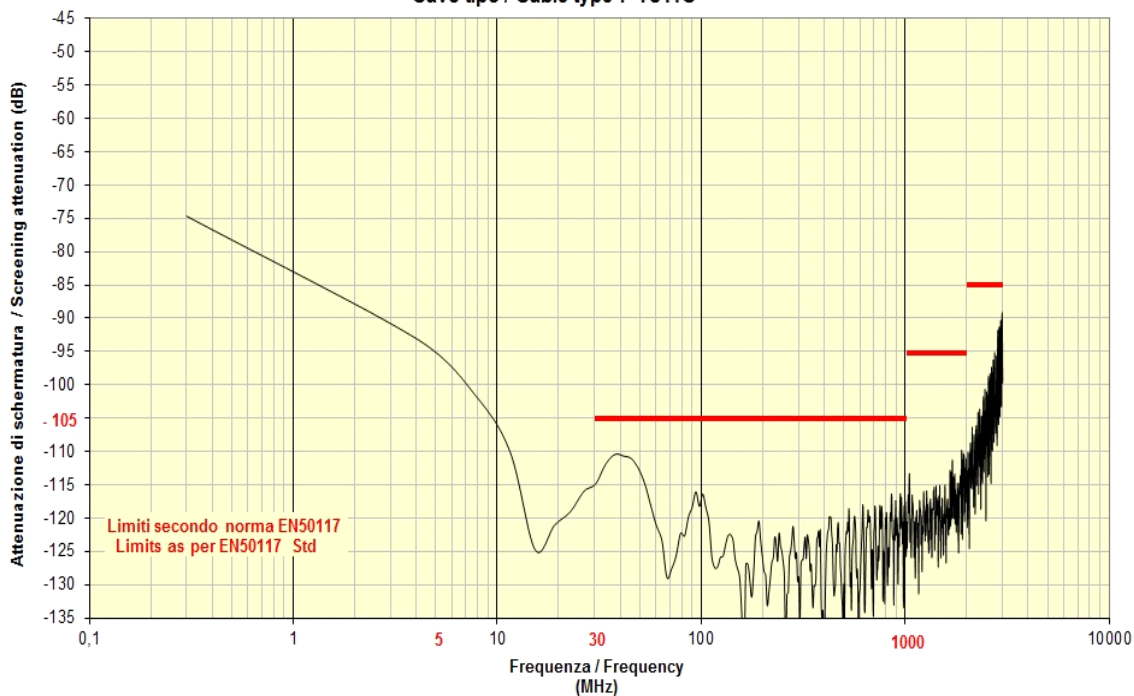
Data Sheet

TS11C

Attenuazione di schermatura / Screening Attenuation

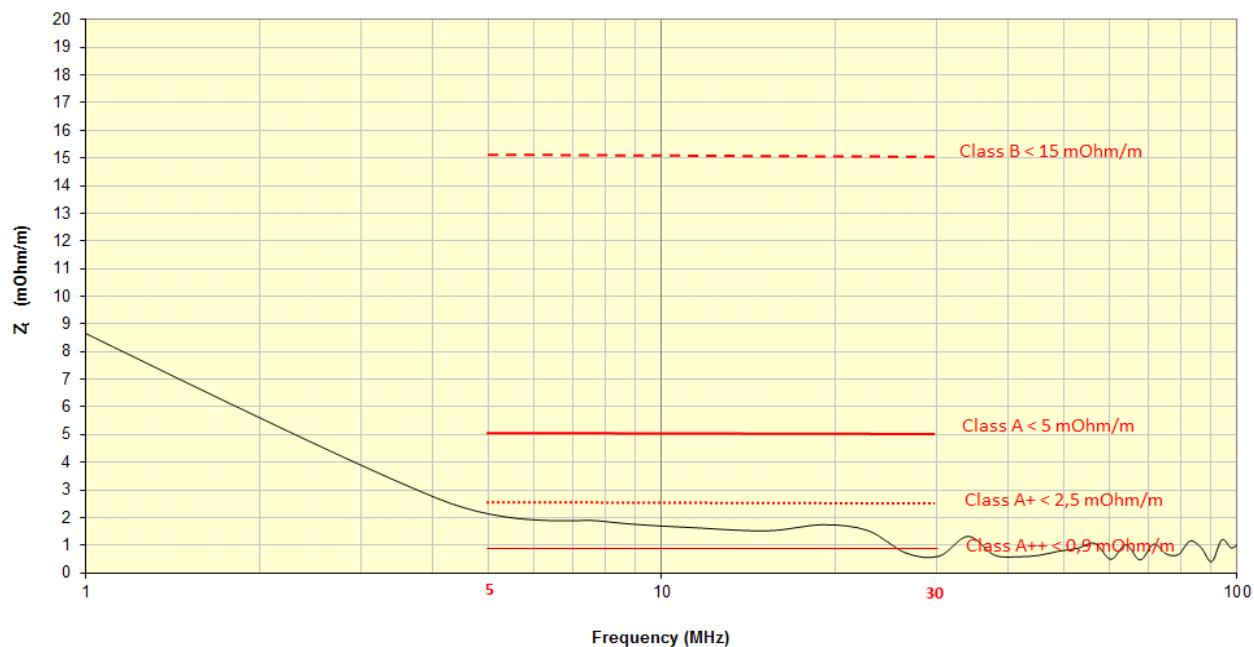
Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS11C



Transfer Impedance

Cable type: TS11C



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