

**Description**

Triple Shielded Coaxial Cable, for transport and distribution, for digital reception - 75 Ohm  
Indoor and Outdoor installation cable (Screening attenuation - Class A++)



Data Sheet

**TS11B**



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)**

**B2ca 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.

**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
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)		63	%
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Diameter under Sheath		Ø 7,97	mm
Outer sheath of Thermoplastic material - black (RAL 9011) - halogen-free, low smoke, flame retardant	(LSZH-FR+)	Ø 10,30 ± 0,20	mm

Inner	Ø	±
Outer	Ø	±

**Physical data**

Weight of copper conductors	34,57	kg/km
Total weight of cable	111,35	kg/km
Minimum bending radius (single/repeated bending)	100	mm
Maximum cable pulling strength	300	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +70	°C

**Electrical data**

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	

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

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Date

12/07/2023

Responsible

A. Bergaglio

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Coaxial Cables

**CAVEL**

since 1968

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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 (Ieff)	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++

30 - 1000 MHz	> 110 dB
1000 - 2000 MHz	> 110 dB
2000 - 3000 MHz	> 90 dB

## Transfer Impedance (Zt)

5 - 30 MHz &lt; 2,5 mOhm/m

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	690	9,90
10	1,50	1000	12,80
30	2,20	1750	17,00
50	2,80	2150	19,40
200	5,20	2400	21,00
300	6,40	3000	24,50
470	8,10		

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