

**Description**

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



Data Sheet

**TS713B**



Ø	1,13	4,80	4,97	5,37	5,49	7,00
	(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.

**Standards**

EN 50117-2-4

**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 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Aluminum/Polyester/Aluminum/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)		71	%
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)	23 x 30/19	mm/µm
Diameter over Braid		Ø 5,49	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant	(LSZH-FR+)	Ø 7,00 ± 0,15	mm

Printed each meter by blue ink-jet :

**CAVEL TS 713 B MADE IN ITALY 75 Ohm Euroclass B2ca s1a,d1,a1 EN50117-2-4 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

(gggaan=batch number m=meter marking)

**Physical data**

Weight of copper conductors	19,40	kg/km
Total weight of cable	52,70	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Maximum cable pulling strength	150	N
Stripping force between braid and sheath over 200 mm	150	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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

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Date

08/05/2018

Responsible

Alberto Scardovi

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Class A++

Coaxial Cables

**CAVEL**

since 1968

Data Sheet

**TS713B****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		10	Ohm/km
Loop resistance		28	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (I <sub>eff</sub> )		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		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Z <sub>t</sub> )	Z <sub>t</sub> -Class A++
30 - 1000 MHz	> 108 dB	5 - 30 MHz	< 0,9 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	1,40	862	16,00
10	1,90	1000	17,30
30	3,00	1750	23,40
50	3,80	2150	26,10
200	7,50	2400	27,80
300	9,30	3000	31,50
470	11,70		

**Connectors**

<b>FC7.0QM</b>	Series F Compression, Quick Mount, for OUTDOOR installation
<b>FC7M7.0C</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass

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