

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
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)		71	%
Outer Aluminium/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/repeated 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

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Date

08/05/2018

Responsible

Alberto Scardovi

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**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 _{eff})		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++

30 - 1000 MHz	> 108 dB
1000 - 2000 MHz	> 95 dB
2000 - 3000 MHz	> 85 dB

Shield Transfer Impedance (Z_t)Z_t-Class A++

5 - 30 MHz	< 0,9 mOhm/m
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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		

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