

Description

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

Coaxial Cables

CAVEL®

since 1968

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.

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
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)		63	%
Outer Aluminum/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 B MADE IN ITALY 75 Ohm Euroclass B2ca s1a,d1a1 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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**Data Sheet****TS11B****Physical data**

Weight of copper conductors	34,57	kg/km
Total weight of cable	100,90	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++	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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Date

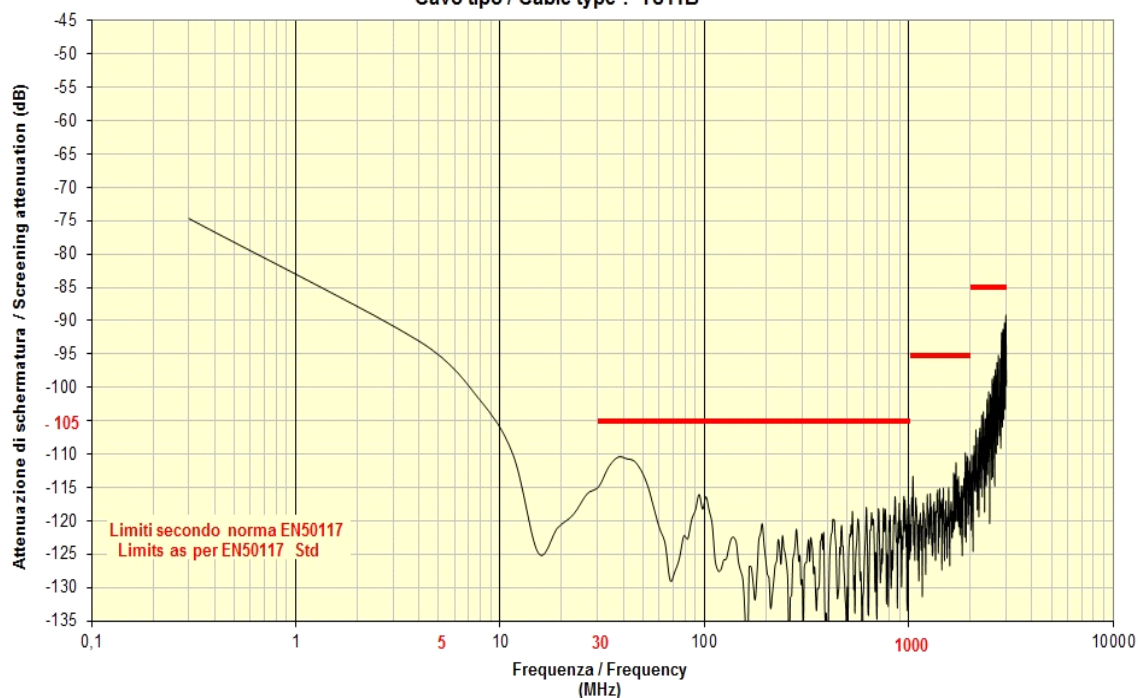
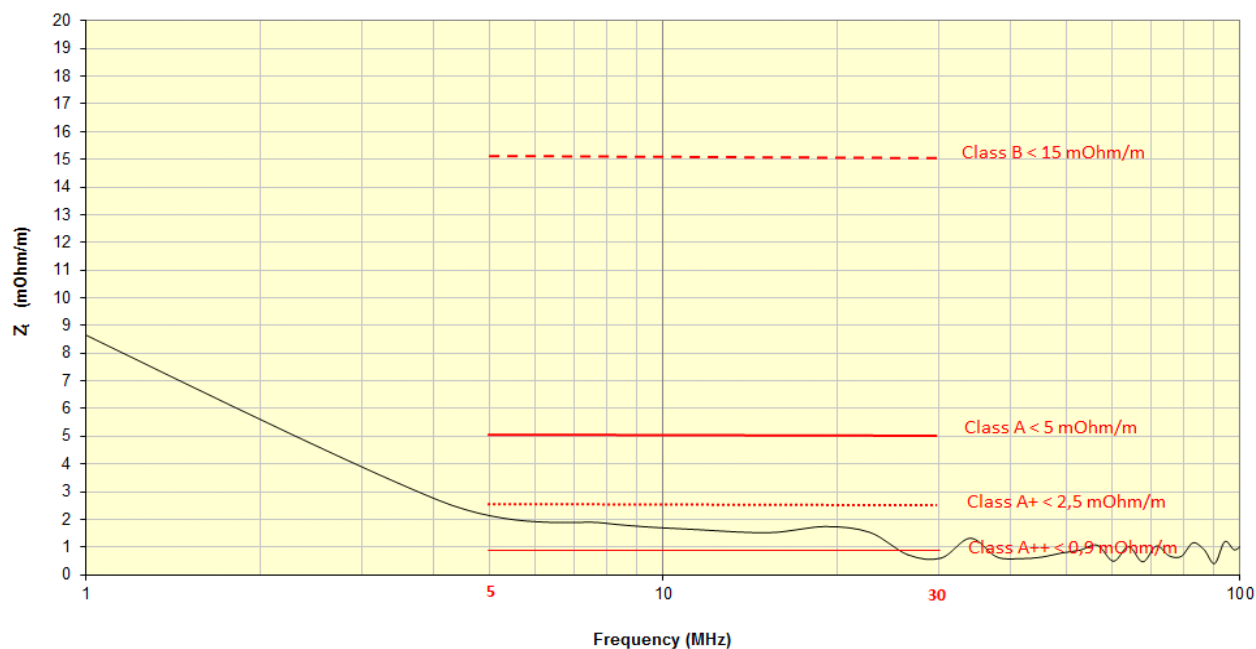
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**Data Sheet****TS11B****Attenuazione di schermatura / Screening Attenuation****Cavo classe A++ / A++ Class cable****Cavo tipo / Cable type : TS11B****Transfer Impedance****Cable type: TS11B****ITALIANA CONDUTTORI s.r.l.**

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**Data Sheet****TS11B****Connectors**

SR01-32	Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation
SP-32	Adapter, Splice Connector, for UNDERGROUND (Hardline) installation
FA17/73	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 33,0 mm x 14,5 mm
F163	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
FC11QM	Series F Compression, Quick Mount, for OUTDOOR installation
FM-TL232	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-32	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm
NM-32	N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm
5/8MU-TL232	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
3,5/12M-TL232	3,5/12" connector, male, for UNDERGROUND (Hardline) installation -

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