

Description

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet**TS27B**

Ø	2,70	11,50	11,72	12,32	12,44	15,30
	(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 2,70 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 11,50 ± 0,15	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)		64	%
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)	48 x 30/19	mm/µm
Diameter over Braid		Ø 12,44	mm
Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant	(LSZH-FR+)	Ø 15,30 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 27 B MADE IN ITALY 75 Ohm Euroclass B2ca s1a,d1,a1 EN50117-2-3 Class A++ CEI-UNEL
 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

(gggaan=batch number 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****TS27B****Physical data**

Weight of copper conductors	83,15	kg/km
Total weight of cable	225,68	kg/km
Minimum bending radius (single/repeated bending)	150	mm
Maximum cable pulling strength	800	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		3,40	Ohm/km
Outer conductor resistance		3,50	Ohm/km
Loop resistance		6,90	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I _{eff})		25	A
Structural return loss (SRL)			
5 - 470 MHz	>25 dB		
470 - 1000 MHz	>24 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>22 dB		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Z _t)	Z _t -Class A++
30 - 1000 MHz	> 115 dB	5 - 30 MHz	< 0,9 mOhm/m
1000 - 2000 MHz	> 110 dB		
2000 - 3000 MHz	> 100 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,78	862	7,54
10	1,00	1000	8,23
30	1,34	1350	9,72
50	1,73	1750	11,32
200	3,43	2150	12,90
300	4,34	2400	13,60
470	5,43	3000	15,30
800	7,40		

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Description

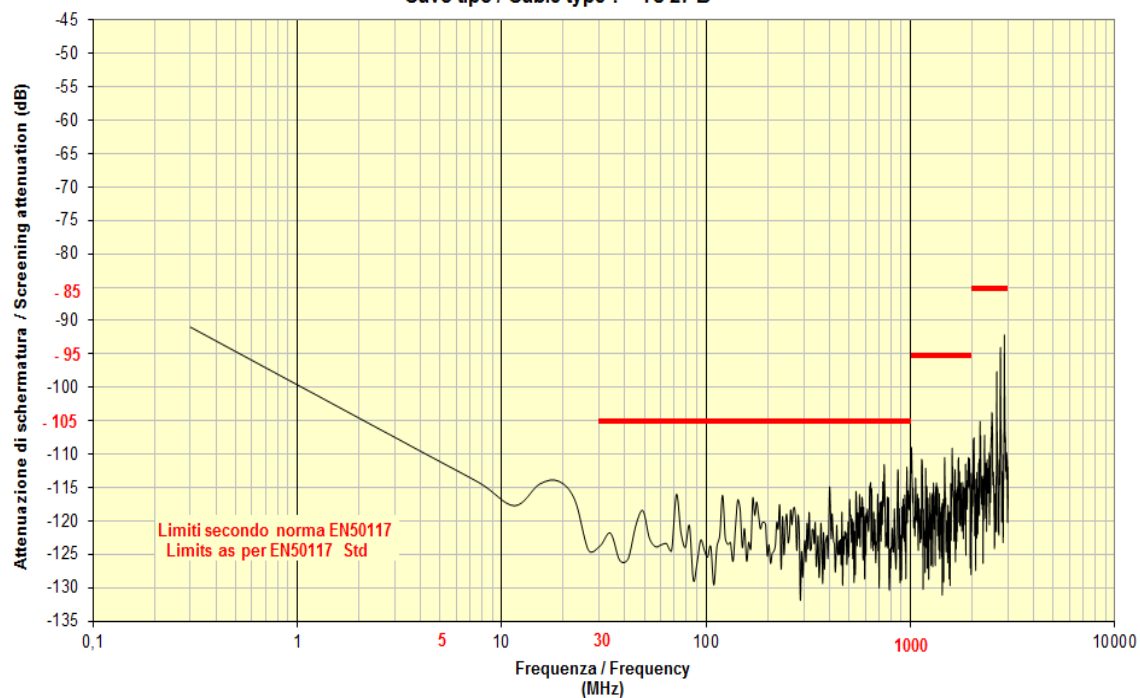
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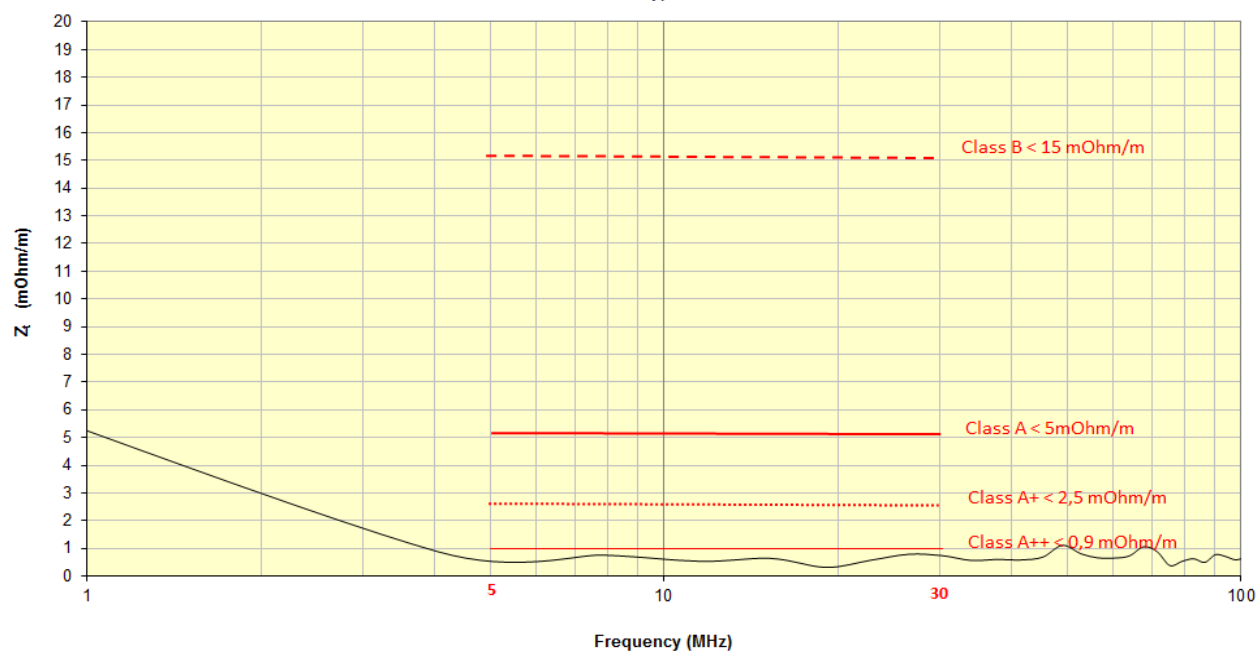
Data Sheet

TS27B**Attenuazione di schermatura / Screening Attenuation****Cavo classe A++ / A++ Class cable**

Cavo tipo / Cable type : TS 27 B

**Transfer Impedance**

Cable type: TS27B

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**Data Sheet****TS27B****Connectors**

FM-TL444	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-44	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
5/8MU-44	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
3,5/12M-44	3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm

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