

Description

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

EN50117-11-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor + Outdoor Installation

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+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)		64	%
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Diameter under Sheath		Ø 12,44	mm
Outer sheath of Thermoplastic material - black (RAL 9011) - 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 EN50117-11-2 SA Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) 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

24/07/2023

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	83,15	kg/km
Total weight of cable	228,68	kg/km
Minimum bending radius (single/repeated bending)	150	mm
Maximum cable pulling strength	800	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 %	
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 (Ieff)		25	A
Structural return loss (SRL)			
5 - 470 MHz	>26 dB		
470 - 1000 MHz	>23 dB		
1000 - 2000 MHz	>20 dB		
2000 - 3000 MHz	>18 dB		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Zt)	Zt-Class A++
30 - 1000 MHz	> 110 dB	5 - 30 MHz	< 0,9 mOhm/m
1000 - 2000 MHz	> 105 dB		
2000 - 3000 MHz	> 90 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,80	690	6,90
10	1,00	1000	8,30
30	1,40	1750	11,00
50	1,80	2150	12,50
200	3,50	2400	13,30
300	4,30	3000	16,60
470	5,50		

Connectors

5/8MU-44	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
CS27	Stripper for Distribution Cables, just for Trunk 27/115, Tools -
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

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