

Description

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

**Data Sheet****TS277J**

Ø	2,77	11,50	11,72	12,36	12,48	15,30
	(CCA)	(PEG)	(Al/Pet/Al/Sur)	(Al)	(Al/Pet)	(PE)

Class CPR acc. to UE 305/2011 (DoP)

Fca

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

Construction data

Inner conductor of copper clad aluminium	(CCA)	Ø 2,77 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 11,50 ± 0,15	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of aluminium wires	(Al)		
Braid optical coverage (IEC 96-1)		61	%
Tracer Identifier	Year + Flag		
Outer Aluminium/Polyester j-folded and longitudinally overlapped	(Al/Pet)	50+4 x 30/19	mm/µm
Diameter over Braid		Ø 12,48	mm
Outer sheath of Polyethylene - black with two green bands	(PE)	Ø 15,30 ± 0,20	mm
Printed each meter by yellow ink-jet :			

CAVEL TS 2.77 J MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(aaaa=year) (m=meter marking)

Physical data

Total weight of cable	125,15	kg/km
Minimum bending radius (single/repeated bending)	200	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		4,90	Ohm/km
Outer conductor resistance		4,40	Ohm/km
Loop resistance		9,30	Ohm/km
Sheat Insulation voltage (spark test)		8	kV

ITALIANA CONDUTTORI s.r.l.

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Maximum current (Ieff)

20

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++

30 - 1000 MHz	>105 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>85 dB

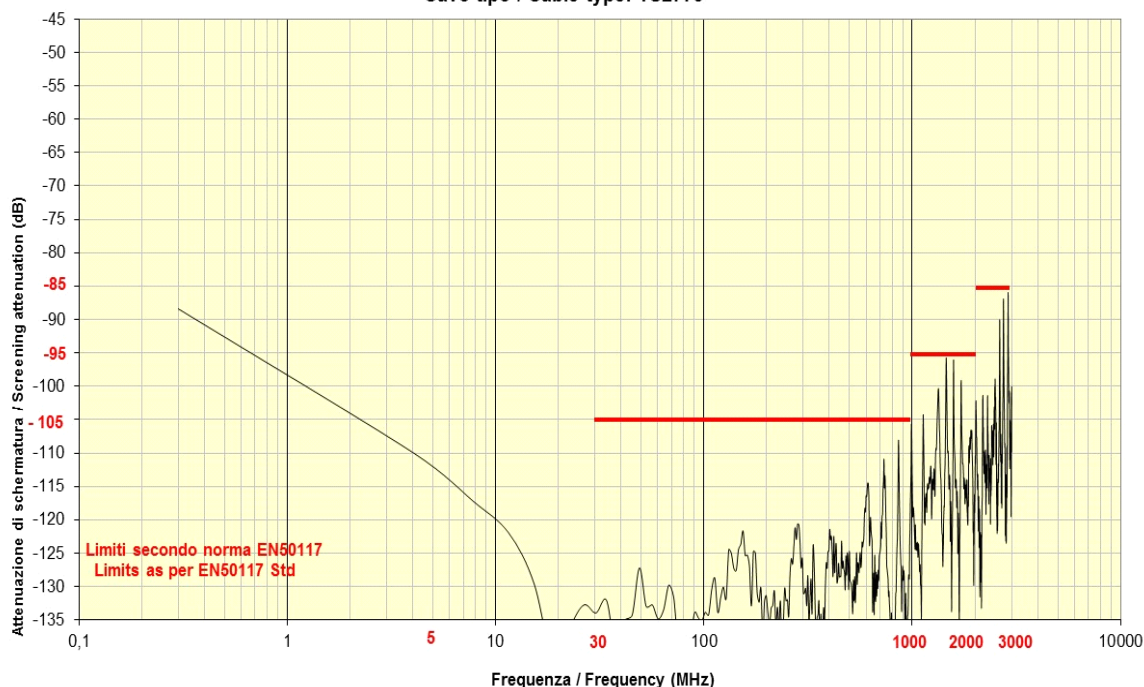
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,80	862	7,70
10	1,10	1000	8,40
30	1,40	1750	11,40
50	1,80	2150	12,80
200	3,50	2400	13,60
300	4,30	3000	15,40
470	5,50		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type: TS277J



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**Data Sheet****TS277J****Connectors**

3,5/12M-44	3,5/12" connector, 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
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
SR21-44	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

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