

**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 aluminum	(CCA)	Ø 2,77 ± 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 aluminum wires	(Al)		
Braid optical coverage (IEC 96-1)		61	%
Tracer Identifier	Year + Flag		
Outer Aluminum/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

**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

Date

24/05/2017

Responsible

PierPaolo Piccinini

**Description**

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



Data Sheet

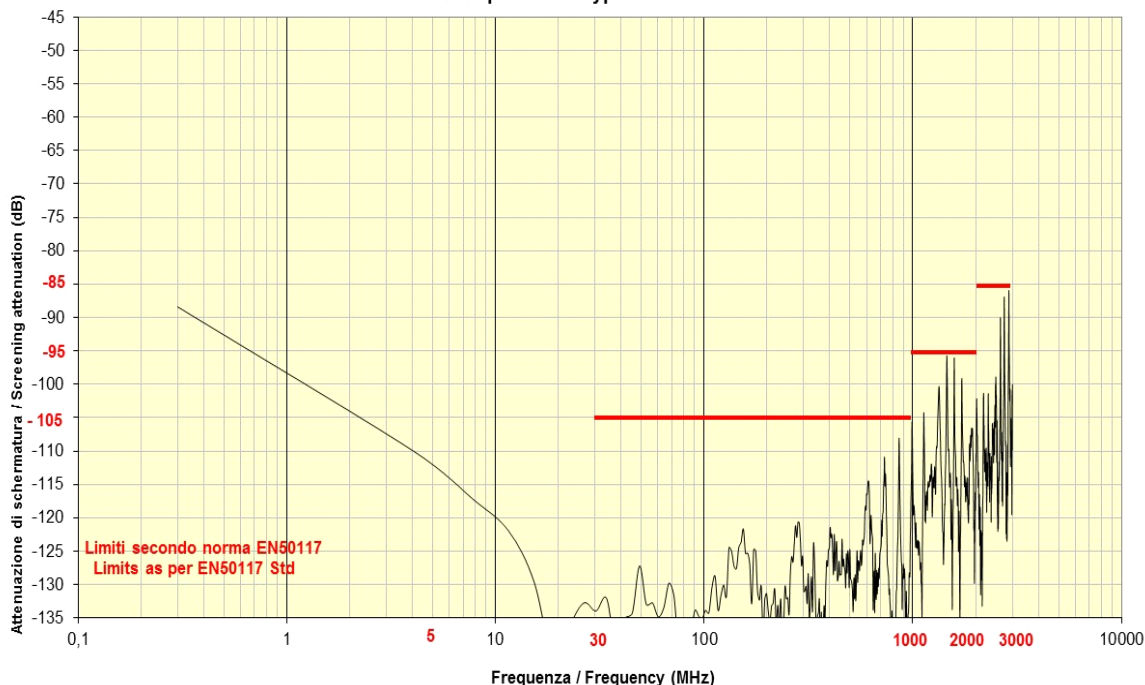
**TS277J**

Sheat Insulation voltage (spark test)	8	kV
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



**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli  
 Tel +39-382.815150 Fax +39-0382.814212

Date

24/05/2017

Responsible

PierPaolo Piccinini

**Description**

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

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

<b>3,5/12M-44</b>	3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
<b>5/8MU-44</b>	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
<b>FM-TL444</b>	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
<b>IEC14M-44</b>	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
<b>SR21-44</b>	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

Date

**24/05/2017**

Responsible

**PierPaolo Piccinini**