

**Description**

Trunk and distribution, halogen free and low smoke emission  
coaxial cable - 75 Ohm  
Security sheath of LSZH material (Screening Class A+)

Coaxial Cables

**CAVEL®**

since 1968

Data Sheet

**27/115ZH**

Ø	2,70	11,50	11,60	12,20	15,00
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(LSZH)

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

Dca s2,d2,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

**Application**

DOCSIS 3.1 (Data Over Coax System)

**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
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		52	%
Tracer Identifier	Year + Flag		
Diameter over Braid		Ø 12,20	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 15,00 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL 2.7/11.5 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-3 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(gggaan=batch number m=meter marking)

**Physical data**

Weight of copper conductors	83,87	kg/km
Total weight of cable	208,30	kg/km
Minimum bending radius (single/repeated bending)	200	mm
Maximum cable pulling strength	800	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +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		5,80	Ohm/km

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

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

Date

**20/09/2017**

Responsible

**Alberto Scardovi**

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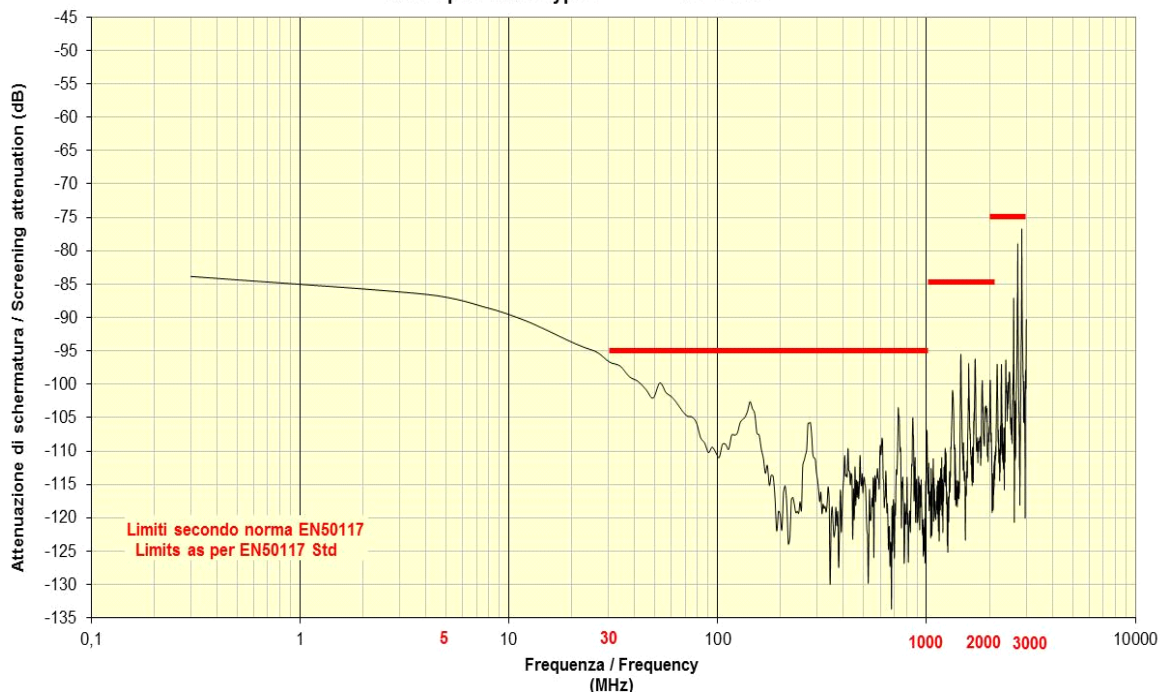
Loop resistance		9,20	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I <sub>eff</sub> )		25	A
Structural return loss (SRL)			
5 - 470 MHz	>25 dB		
470 - 1000 MHz	>24 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Z <sub>t</sub> )	Z <sub>t</sub> -Class A
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 4 mΩ/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>75 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	1,30	1750	11,40
50	1,70	2150	12,80
200	3,40	2400	13,60
300	4,20	3000	15,40
470	5,50		

Attenuazione di schermatura / Screening Attenuation

**Cavo classe A+ / A+ Class Cable**  
Cavo tipo / Cable type : 27/115 ZH



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**27/115ZH****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

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