

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.

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Tel +39-382.815150 Fax +39-0382.814212

Date**20/09/2017****Responsible****Alberto Scardovi**

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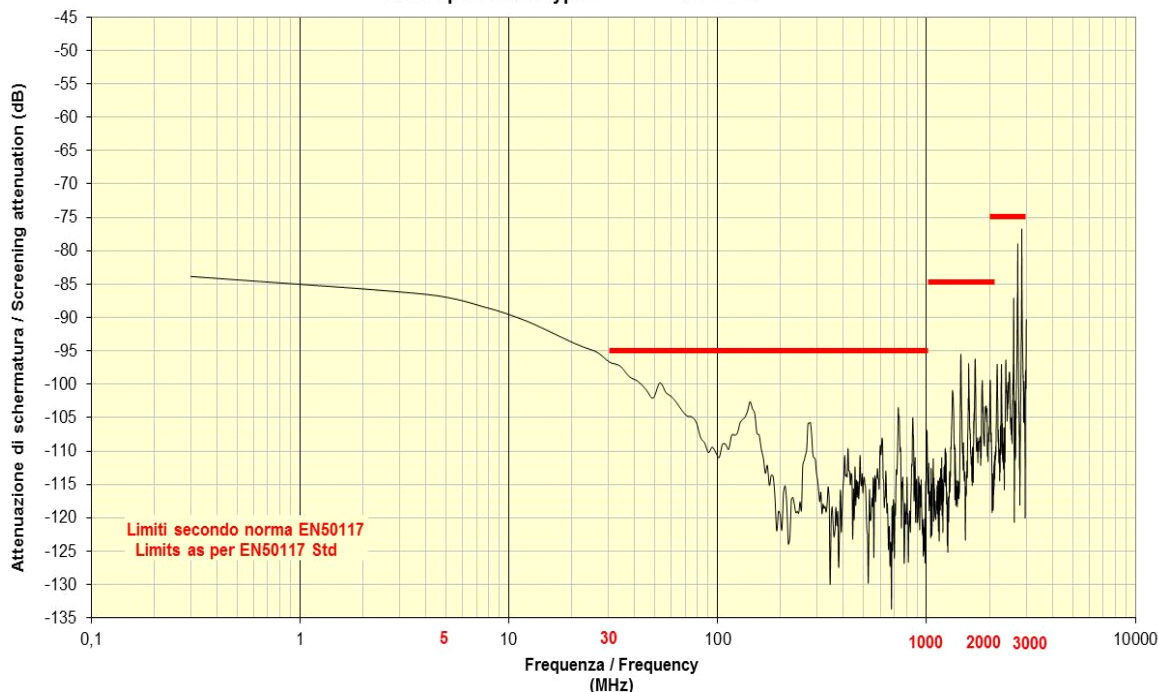
Loop resistance		9,20	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I _{eff})		25	A
Structural return loss (SRL)			
5 - 470 MHz	>25 dB		
470 - 1000 MHz	>24 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Z _t)	Z _t -Class A
30 - 1000 MHz	>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**

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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