

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm
Underground installation cable (Screening Class A+)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

27/115FC



Ø	2,70	11,50	11,60	12,20		15,00
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(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

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		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 12,20	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 15,00 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL 2.7/11.5 FC MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	83,87	kg/km
Total weight of cable	179,90	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 %	

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
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Inner conductor resistance	3,40	Ohm/km
Outer conductor resistance	5,80	Ohm/km
Loop resistance	9,20	Ohm/km
Sheat Insulation voltage (spark test)	8	kV
Maximum current (Ieff)	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 (Zt)

Zt-Class A

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>75 dB

5 - 30 MHz

< 4 mΩ/m

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		

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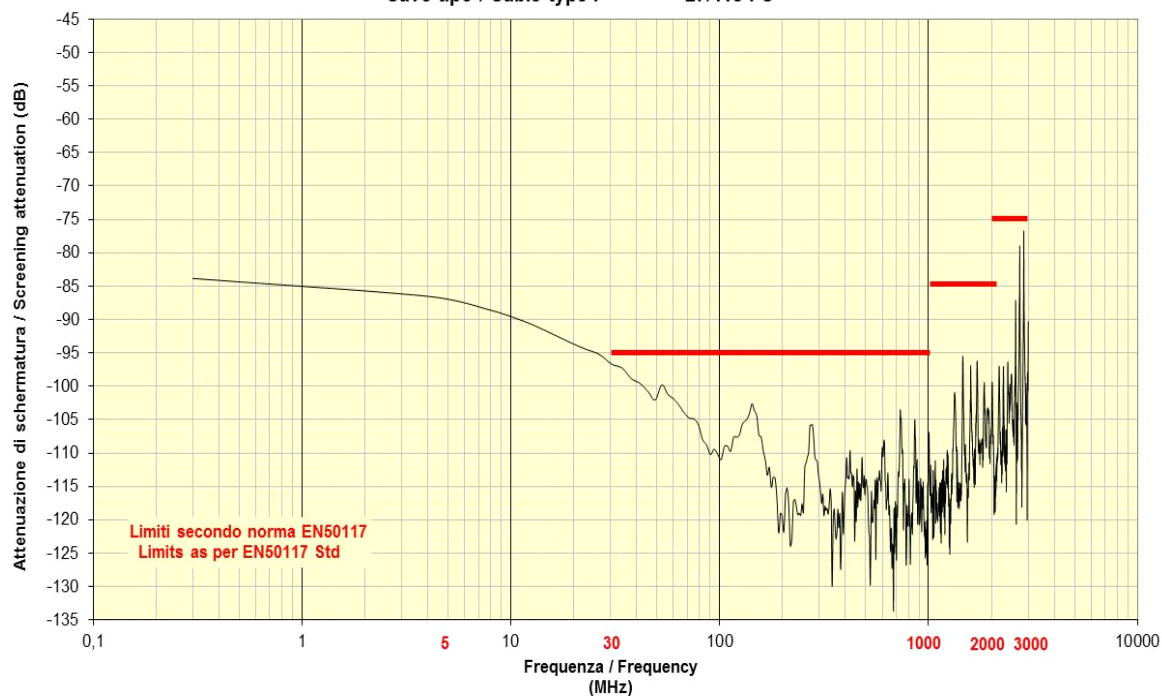
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27/115FC**Attenuazione di schermatura / Screening Attenuation****Cavo classe A+ / A+ Class Cable**
Cavo tipo / Cable type : 27/115 FC**Connectors**

- 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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