

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable

Coaxial Cables

CAVEL®

since 1968

Data Sheet

17/73FC



Ø	1,63	7,20	7,30	7,78		10,10
	(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

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 7,20 ± 0,10	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)		64	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 7,78	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 10,10 ± 0,15	mm

Printed each meter by yellow ink-jet :

CAVEL 1.7/7.3 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	39,99	kg/km
Total weight of cable	88,19	kg/km
Minimum bending radius (single/repetead bending)	100	mm
Maximum cable pulling strength	300	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		8,50	Ohm/km
Outer conductor resistance		9,50	Ohm/km

ITALIANA CONDUTTORI s.r.l.

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

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11/05/2017

Responsible

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Loop resistance		18	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		16	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>20 dB		
Screening Attenuation (SA)	SA-Class A	Shield Transfer Impedance (Zt)	Zt-Class B
30 - 1000 MHz	>85 dB	5 - 30 MHz	< 7 mΩ/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>80 dB		

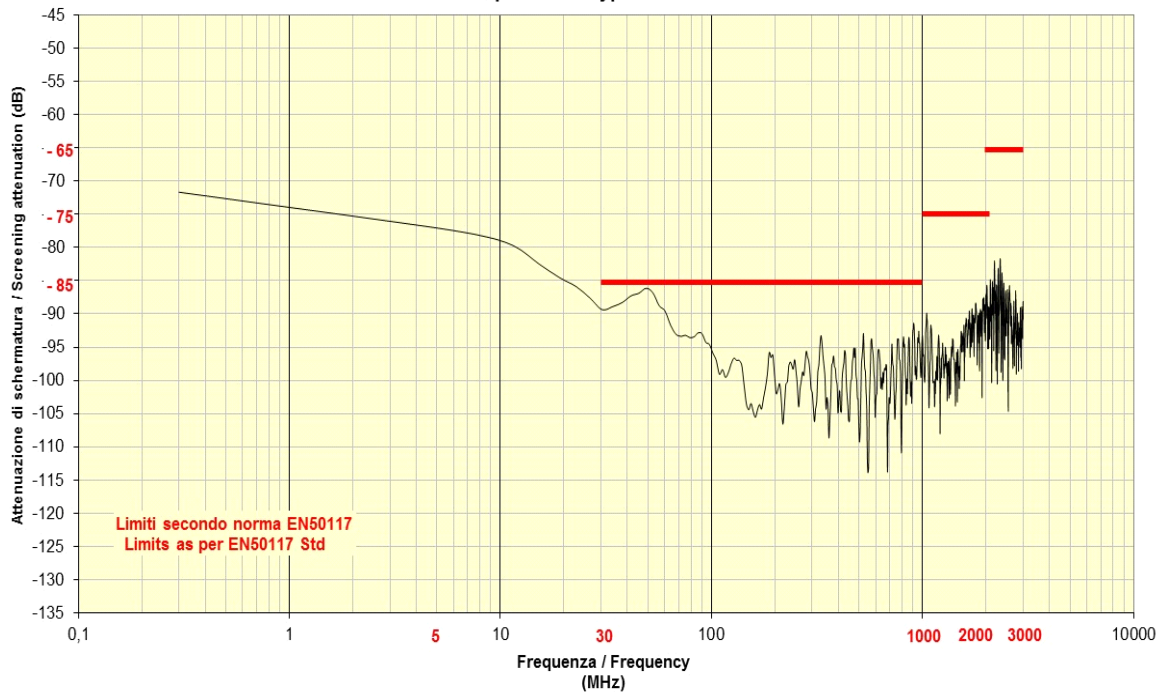
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	11,50
10	1,50	1000	12,40
30	1,90	1750	17,10
50	2,50	2150	19,20
200	5,30	2400	20,40
300	6,50	3000	23,30
470	8,30		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: 17/73 FC



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**Data Sheet****17/73FC****Connectors**

- 5/8MU-TL232** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
- F163** Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
- FA17/73** Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 33,0 mm x 14,5 mm
- FC11QM** Series F Compression, Quick Mount, for OUTDOOR installation
- FM-TL232** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
- IEC14M-32** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm
- NM-32** N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm
- SR01-32** Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation

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