

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable (Screening Class A+)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

34/145FC



Ø	3,40	14,50	14,66	15,26		19,80
	(Cu)	(PEG)	(Cu)	(Cu)	(Jelly2)	(PE)

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

F_{ca}

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

Fire-Resistance Rating

EN50575

Construction data

Inner conductor of plain copper	(Cu)	Ø 3,40 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 14,50 ± 0,15	mm
Copper tape longitudinally overlapped	(Cu)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		61	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 15,26	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 19,80 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL 3.4/14.5 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	153,52	kg/km
Total weight of cable	329,74	kg/km
Minimum bending radius (single/repeated bending)	250	mm
Maximum cable pulling strength	1.200	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		53 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		2,10	Ohm/km

ITALIANA CONDUTTORI s.r.l.

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Outer conductor resistance		2,60	Ohm/km
Loop resistance		4,70	Ohm/km
Sheat Insulation voltage (spark test)		12	kV
Maximum current (Ieff)		34	A
Structural return loss (SRL)			
5 - 470 MHz	>25 dB		
470 - 1000 MHz	>24 dB		
1000 - 2000 MHz	>21 dB		
2000 - 3000 MHz	>20 dB		
Screening Attenuation (SA)	SA-Class A+	Shield Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 2,5 mΩ/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>80 dB		

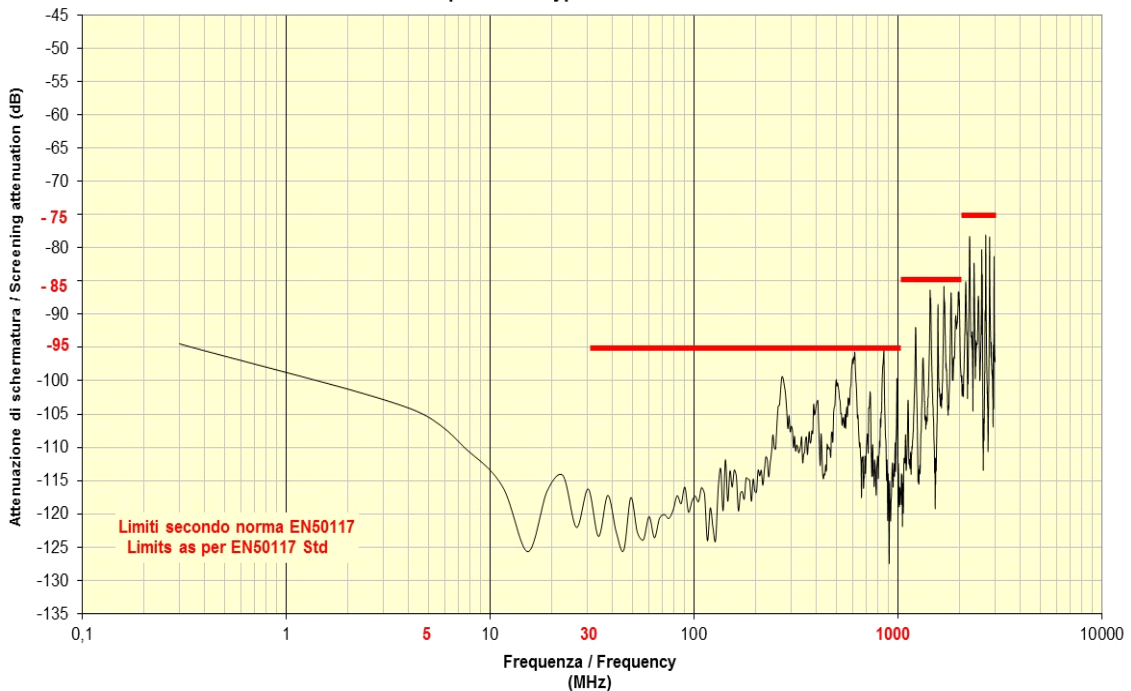
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,50	862	6,40
10	0,70	1000	6,90
30	1,10	1750	9,40
50	1,40	2150	10,60
200	2,90	2400	11,50
300	3,60	3000	13,30
470	4,60		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type : 34/145 FC



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**Data Sheet****34/145FC****Connectors**

3,5/12M-46	3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 30,0 mm
5/8MU-46	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 31,0 mm
FM-TL646	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-46	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 84,0 mm x 31,0 mm
SR01-46	Adapter, for 11/50FC - 34/145, for UNDERGROUND (Hardline) installation

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