

## 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)

## Standards

EN 50117-2-3

## Construction data

Inner conductor of plain copper		(Cu)	Ø 3,40 ± 0,10	mm
Dielectric of physical foam polyethylene	0,10	(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 under Sheath			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 EN50117-2-3 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

(ss=week, aa=year) (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
Fire Load	8.036	MJ/km	2.232	kWh/km

## 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
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	

## ITALIANA CONDUTTORI s.r.l.

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 Tel +39-382.815150 Fax +39-0382.814212

## Date

29/02/2016

## Responsible

PierPaolo Piccinini

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Underground installation cable (Screening Class A+)



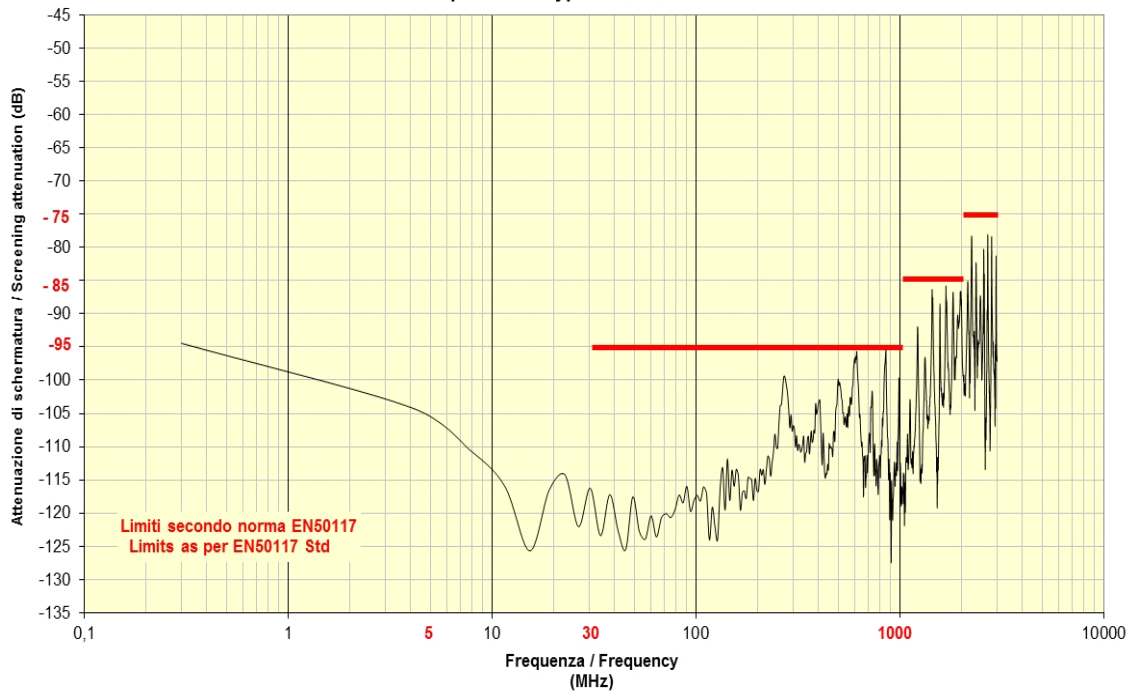
Data Sheet

**34/145FC**

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****Connectors**

<b>FM-46</b>	Series F, male, for outdoor and underground installation, nitin-plated brass - 76,0 mm x 31,0 mm
<b>IEC14M-46</b>	Series IEC (no tool), male, for outdoor and underground installation, nitin-plated brass - 84,0 mm x 31,0 mm
<b>5/8MU-46</b>	Serie 5/8", male, for outdoor and underground installation, nitin-plated brass - 84,0 mm x 31,0 mm
<b>3,5/12M-46</b>	Serie 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 84,0 mm x 30,0 mm

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