

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)

Construction data

Inner conductor of plain copper	(Cu)	3,40 ± 0,10 mm
Dielectric of physical foam polyethylene	(PEG)	14,50 ± 0,15 mm
Water repellent sealing (dielectric)	(Jelly1)	
Copper tape longitudinally overlapped	(Cu)	
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)	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)

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		53 ± 2	pF/m
Velocity Factor		85 %	
Inner conductor resistance		2,10	Ohm/km
Outer conductor resistance		2,60	Ohm/km
Loop resistance		4,70	Ohm/km
Insulation voltage of the sheath (spark test)		12	kV
Maximum current (I _{eff})		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)

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>85 dB
2000 - 3000 MHz	>80 dB

Transfer impedance

5 - 30 MHz < 2,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
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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		

Mechanical data

Weight of copper conductors	153,52	kg/km	
Total weight of cable	329,74	kg/km	
Minimum bending radius (single/repetead bending)	250	mm	
Maximum cable pulling strength	1.200	N	
Fire Load	8.036	MJ/km	2.232 kWh/km

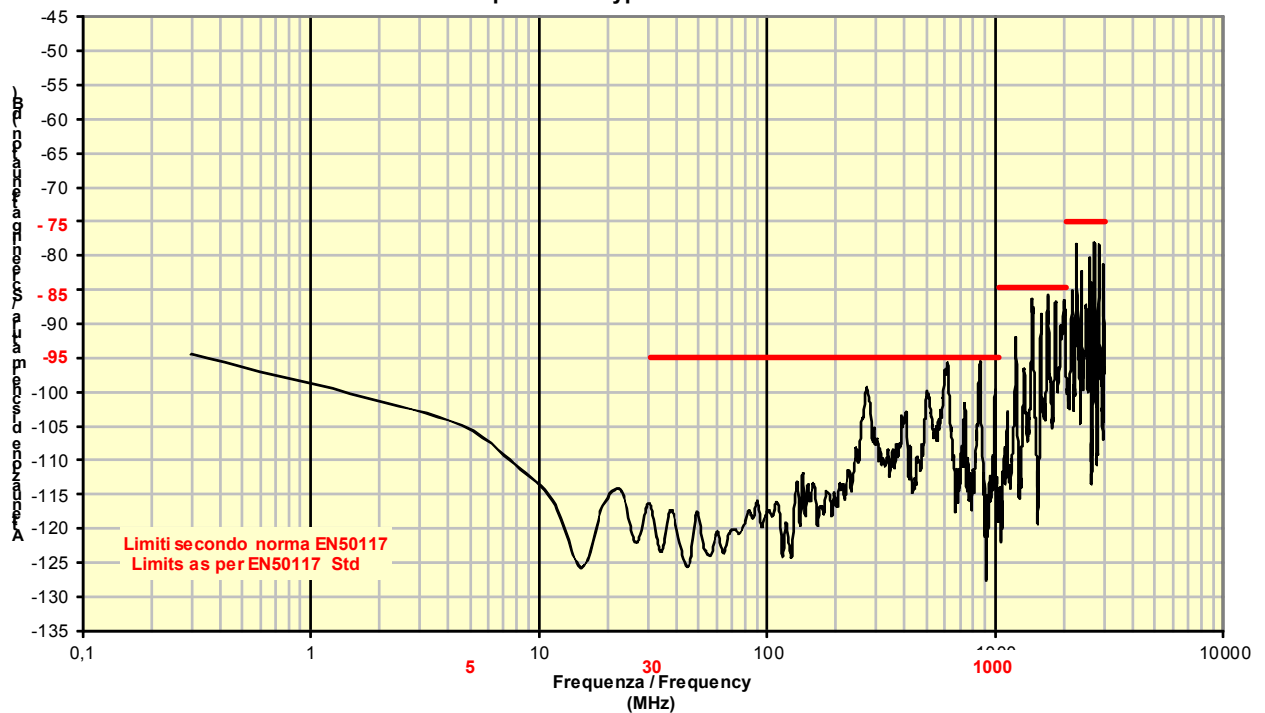
Standards

EN 50117-2-3

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****Connector**

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

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