

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

22/99FC

Ø	2,20	9,90	10,00	10,48		12,70
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

Standards

EN 50117-2-3

Construction data

Inner conductor of plain copper	(Cu)	2,20 ± 0,10 mm
Dielectric of physical foam polyethylene	(PEG)	9,90 ± 0,15 mm
Water repellent sealing (dielectric)	(Jelly1)	
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)	
Braid of annealed copper wires	(Cu)	
Braid optical coverage (IEC 96-1)		55 %
Tracer Identifier	Year + Flag	
Water repellent sealing (sheath)	(Jelly2)	
Diameter under Sheath		10,48 mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	12,70 ± 0,15 mm

Printed each meter by yellow ink-jet :

CAVEL 2.2/9.9 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

		N
		N
		°C
		°C
		°C
Fire Load	MJ/km	kWh/km

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Tel +39-382.815150 Fax +39-0382.814212

Date

18/04/2013

Responsible

PierPaolo Piccinini

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**Data Sheet****22/99FC****Electrical data**

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		5	Ohm/km
Outer conductor resistance		8,50	Ohm/km
Loop resistance		13,50	Ohm/km
Insulation voltage of the sheath (spark test)		8	kV
Maximum current (I _{eff})		21	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)

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>100 dB
2000 - 3000 MHz	>85 dB

Transfer impedance

5 - 30 MHz < 5 mΩ/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,80	862	9,10
10	1,10	1000	9,80
30	1,50	1750	13,30
50	2,00	2150	14,90
200	4,00	2400	15,70
300	4,90	3000	18,30
470	6,40		

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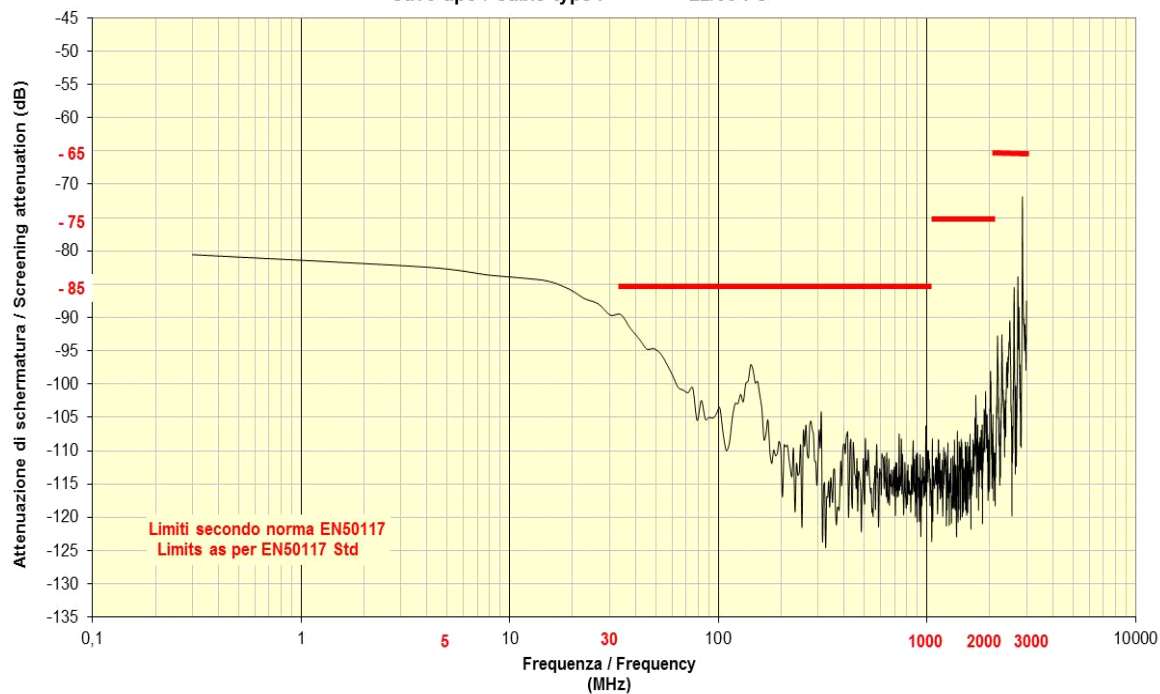
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**Data Sheet****22/99FC****Attenuazione di schermatura / Screening Attenuation****Cavo classe A / A Class Cable****Cavo tipo / Cable type : 22/99 FC****Connector**

FM-32	Series F, male, for outdoor and underground installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-32	Series IEC (no tool), male, for outdoor and underground installation, nitin-plated brass - 64,5 mm x 21,0 mm
5/8MU-32	Serie 5/8", male, for outdoor and underground installation, nitin-plated brass - 69,0 mm x 20,5 mm
3,5/12M-32	Serie 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 65,5 mm x 24,5 mm

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