

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm
 Underground installation cable (Screening Class A)



Data Sheet

22/99FC



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

Constructive 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		mm
Water repellent sealing (sheath)	(Jelly2)		
Diameter under Sheath		10,48	mm
Outer sheath of Polyethylene - black - with carbonblack (Q4)	(PE)	12,70 ± 0,15	mm

Printed each meter by yellow ink-jet :

CCS TV 75 Ohm CAVEL 2.2/9.9 FC MADE IN ITALY 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)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	8,50	Ohm/km
Loop resistance	13,50	Ohm/km
Insulation voltage of the sheath (spark test)	8	kV
Maximum current (Ieff)	21,00	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)	Transfer impedance
30 - 1000 MHz	5 - 30 MHz
1000 - 2000 MHz	<5 mOhm/m
2000 - 3000 MHz	

ITALIANA CONDUTTORI s.r.l.

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 Tel +39-382.815150 Fax +39-0382.814212

Date

07/10/2005

Responsible

PierPaolo Piccinini

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Underground installation cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

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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		

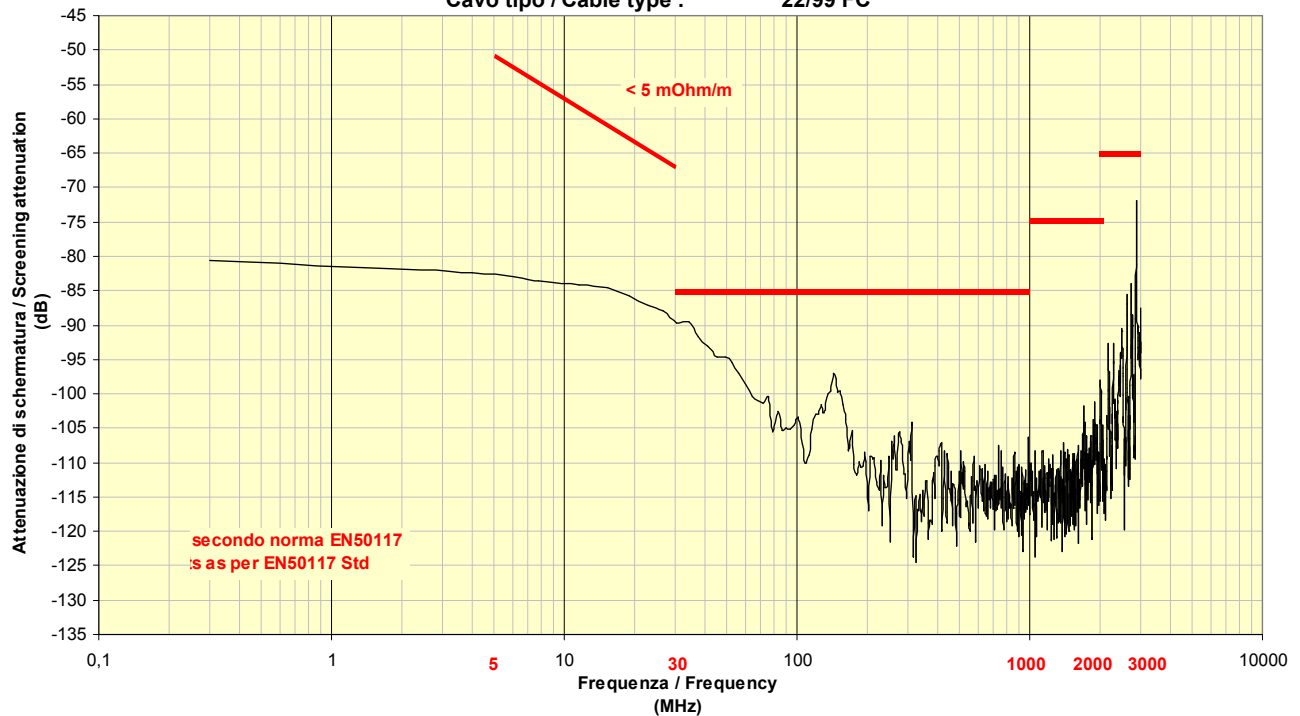
Mechanical data

Weight of copper conductors	60,30	kg/km
Total weight of cable	128,40	kg/km
Minimum bending radius (single/repeated bending)	150	mm
Max. cable pulling strength	600	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : 22/99 FC



Connector

FM-13	F male connector for outdoor and underground installation, nitin-plated brass - 58,5 x 22,5 mm
IEC14M-13	IEC male connector for outdoor and underground installation, nitin-plated brass - 70,0 x 23,0 mm
NM-13	N male connector for outdoor and underground installation, nitin-plated brass - 62,0 x 23,0 mm
5/8MU-13	5/8" connector for outdoor and underground installation, nitin-plated brass - 59,0 x 22,5 mm
3,5/12M-13	3,5/12" connector for outdoor and underground installation, nitin-plated brass - 68,0 x 23,0 mm

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