

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable

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)

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

Fca

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

Reaction to Fire

EN50575

Construction data

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

Printed each meter by yellow ink-jet :

CAVEL 2.2/9.9 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	59,57	kg/km
Total weight of cable	130,38	kg/km
Minimum bending radius (single/repetead bending)	150	mm
Max.Tensile Strength	600	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

12/05/2017

Responsible

Alberto Scardovi

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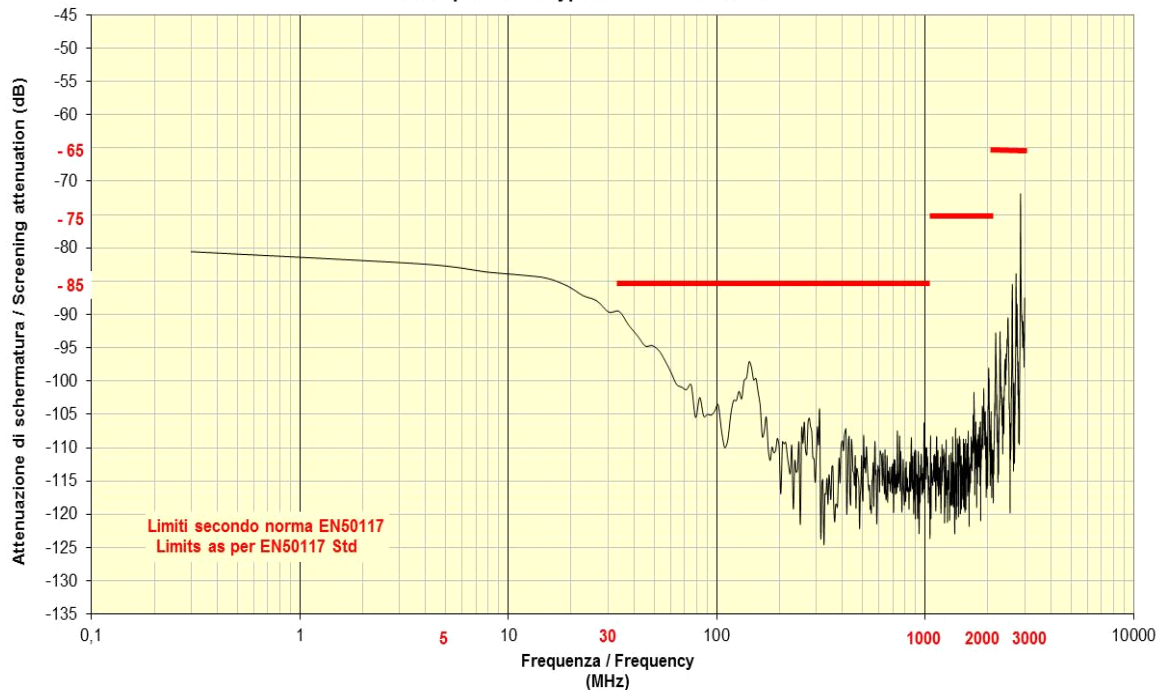
Loop resistance		13,50	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		21	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>23 dB		
2000 - 3000 MHz	>20 dB		
Screening Attenuation (SA)	SA-Class A	Shield Transfer Impedance (Zt)	Zt-Class B
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 8 mΩ/m
1000 - 2000 MHz	>100 dB		
2000 - 3000 MHz	>75 dB		

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable
Cavo tipo / Cable type : 22/99 FC



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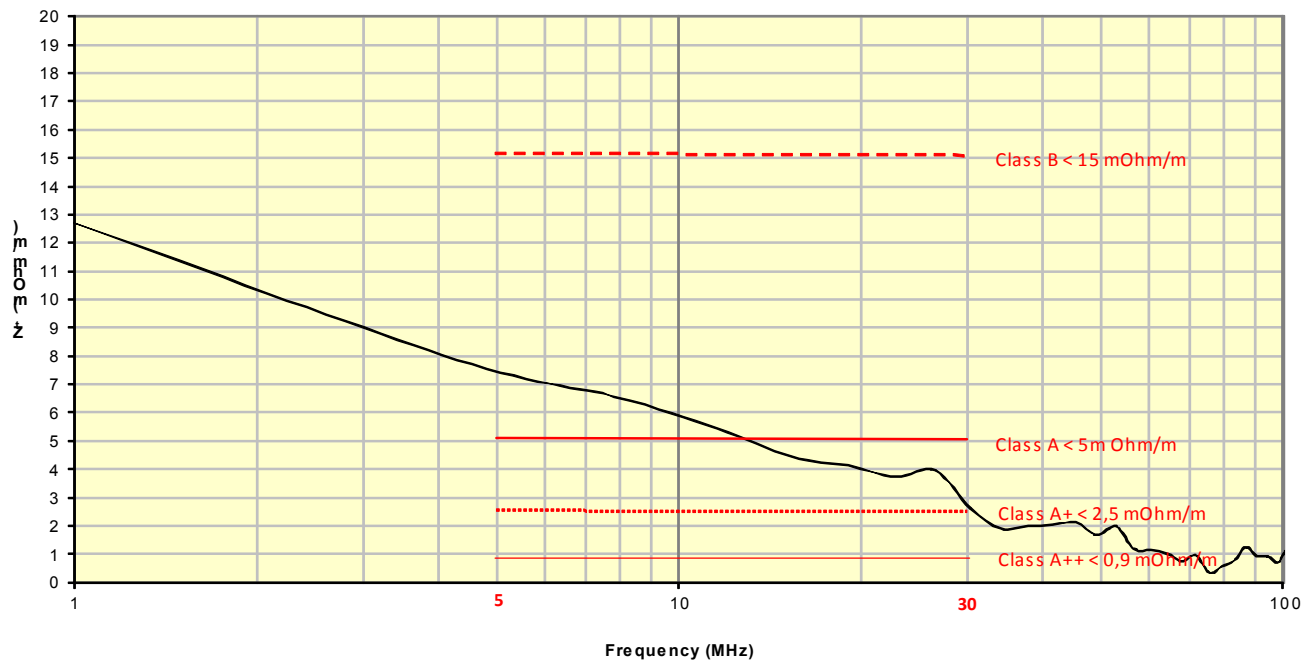


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Transfer Impedance

Cable type: 22/99FC



Connectors

- 3,5/12M-TL313** 3,5/12" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 68,0 mm x 23,0 mm
- 5/8MU-TL232** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
- FM-TL232** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
- IEC14M-32** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm

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