

**Description**

Distribution and trunk coaxial cable with messenger rope - 75 Ohm  
 Outdoor cable for hung-up installation (Screening attenuation - Class A)



Data Sheet

**22/99AP**



Ø	2,20	9,90	10,00	10,48		
	(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**

EN50117-11-2

**Reaction to Fire**

EN50575

**Application**

CATV  
 Hung-up installation

**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 (RAL 9011) - with carbonblack	(PE)	Ø 18,50 x 12,70 ± 0,15	mm
Messenger rope of zinc-plated steel	(FeZn)	7x0,80	mm

Printed each meter by yellow ink-jet :

**CAVEL 2.2/9.9 AP MADE IN ITALY 75 Ohm Euroclass Fca EN50117-11-2 SA Class A gggaa(n) m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Messenger Maximum tensile strength	500	kg
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**Physical data**

Weight of copper conductors	59,57	kg/km
Total weight of cable	174,28	kg/km
Minimum bending radius (single/repeated bending)	150	mm
Maximum cable pulling strength	600	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

**ITALIANA CONDUTTORI s.r.l.**

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Date

03/10/2022

Responsible

A. Bergaglio

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**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
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I <sub>eff</sub> )		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	Transfer Impedance (Z <sub>t</sub> )	
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		

**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-13** 5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 59,0 mm x 22,5 mm
- CS22** Stripper for Distribution Cables, just for Trunk 22/99, Tools -
- FM-TL313** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 58,5 mm x 22,5 mm
- IEC14M-13** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 70,0 mm x 23,0 mm

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