

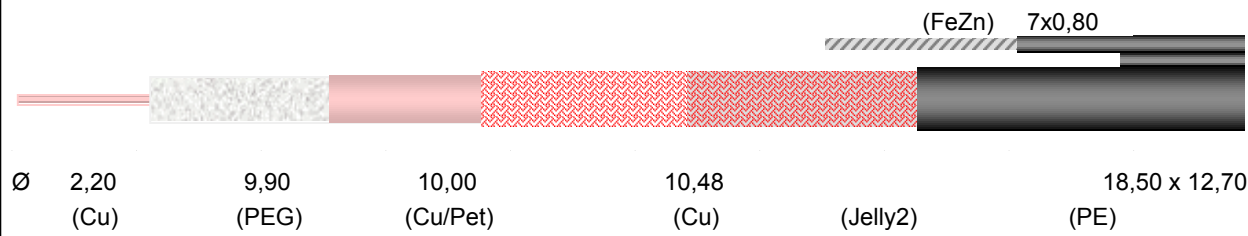
**Description**

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



**Data Sheet**

**22/99AP**



**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)	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 EN50117-2-3 ss/aa m**

(ss=week, aa=year) (m=meter marking)

Messenger Maximum tensile strength	500,00 kg
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**Electrical data**

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		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 (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)**

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

**Transfer impedance**

5 - 30 MHz	< 5 mOhm/m
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**ITALIANA CONDUTTORI s.r.l.**

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

**Date**

**18/04/2013**

**Responsible**

**PierPaolo Piccinini**

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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	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	
Fire Load	3.842	MJ/km	1.067 kWh/km

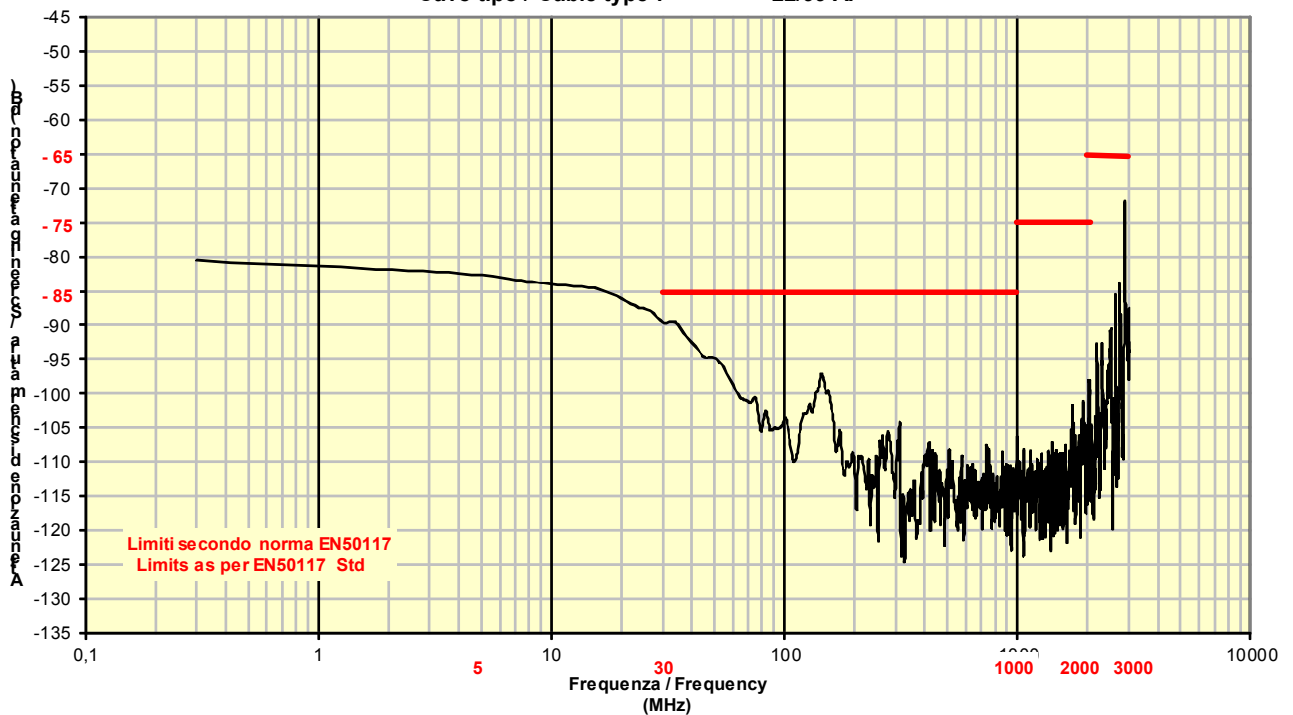
**Standards**

EN 50117-2-3

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A / A Class Cable**

Cavo tipo / Cable type : **22/99 AP**



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**Data Sheet****22/99AP****Connector**

<b>FM-13</b>	Series F, male, for outdoor and underground installation, nitin-plated brass - 58,5 mm x 22,5 mm
<b>IEC14M-13</b>	Series IEC (no tool), male, for outdoor and underground installation, nitin-plated brass - 70,0 mm x 23,0 mm
<b>5/8MU-13</b>	Series 5/8", male, for outdoor and underground installation, nitin-plated brass - 59,0 mm x 22,5 mm
<b>3,5/12M-13</b>	Series 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 68,0 mm x 23,0 mm

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