

**Description**

Triple shielded coaxial cable for Broadband Distribution Networks - 75 Ohm  
Triple shielded cable (Screening Class A++)



**Data Sheet**

**TS22/99J**



Ø	2,20	9,90	10,12	10,72	10,84	13,10
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Al/Pet J-foil)	(PE)

**Construction data**

Inner conductor of plain copper	(Cu)	2,20 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	9,90 ± 0,15	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		64	%
Tracer Identifier	Year + Flag		
Aluminium/Polyester j-fold and longitudinally overlapped	(Al/Pet J-foil)	48 (44+4) x 30/19	µm
Diameter under Sheath		10,84	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	13,10 ± 0,20	mm

Printed each meter by yellow ink-jet :

**CAVEL TS 2.2/9.9 J MADE IN ITALY 75 Ohm EN50117-2-3 Class A++ CEI-UNEL 36762 C-4 (U0 =400V) \* LTE PROTECTION \* 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 %	
Inner conductor resistance		5	Ohm/km
Outer conductor resistance		4,50	Ohm/km
Loop resistance		9,50	Ohm/km
Insulation voltage of the sheath (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)		Transfer impedance
30 - 1000 MHz	>115 dB	5 - 30 MHz 0,02 mOhm/m
1000 - 2000 MHz	>100 dB	
2000 - 3000 MHz	>85 dB	

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

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

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**07/05/2013**

**Responsible**

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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	13,80
50	2,00	2150	15,50
200	4,00	2400	16,50
300	4,90	3000	18,90
470	6,40		

Mechanical data

Weight of copper conductors	61,94	kg/km	
Total weight of cable	135,41	kg/km	
Minimum bending radius (single/repetead bending)	150	mm	
Maximum cable pulling strength	600	N	
Fire Load	2.813	MJ/km	781 kWh/km

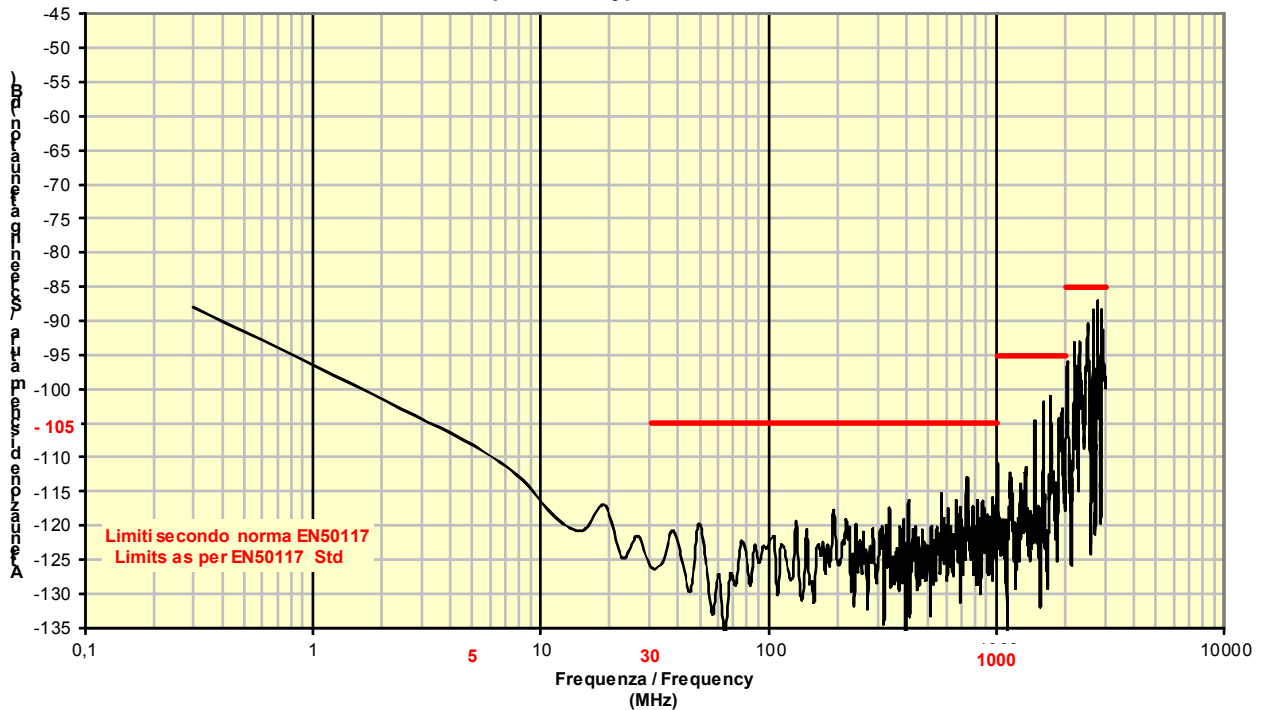
Standards

EN 50117-2-3

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 22/99 J



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**Data Sheet****TS22/99J****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>	Serie 5/8", male, for outdoor and underground installation, nitin-plated brass - 59,0 mm x 22,5 mm
<b>3,5/12M-13</b>	Serie 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 68,0 mm x 23,0 mm

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