

Description

Halogen free, low smoke emission and UV resistant coaxial cable -
75 Ohm
Security sheath of LSZH material (Screening Class A)

Coaxial Cables

CAVEL

since 1968

Data Sheet

22/99ZH

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

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	
Diameter under Sheath		10,48 mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant	(LSZH)	12,70 ± 0,15 mm

Printed each meter by yellow ink-jet :

CCS TV 75 Ohm CAVEL 2.2/9.9 ZH 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 %	
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)		5	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

ITALIANA CONDUTTORI s.r.l.

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

Date

02/07/2007

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	149,30	kg/km	
Minimum bending radius (single/repetead bending)	150	mm	
Maximum cable pulling strength	600	N	
Fire Load	2.291	MJ/km	636 kWh/km

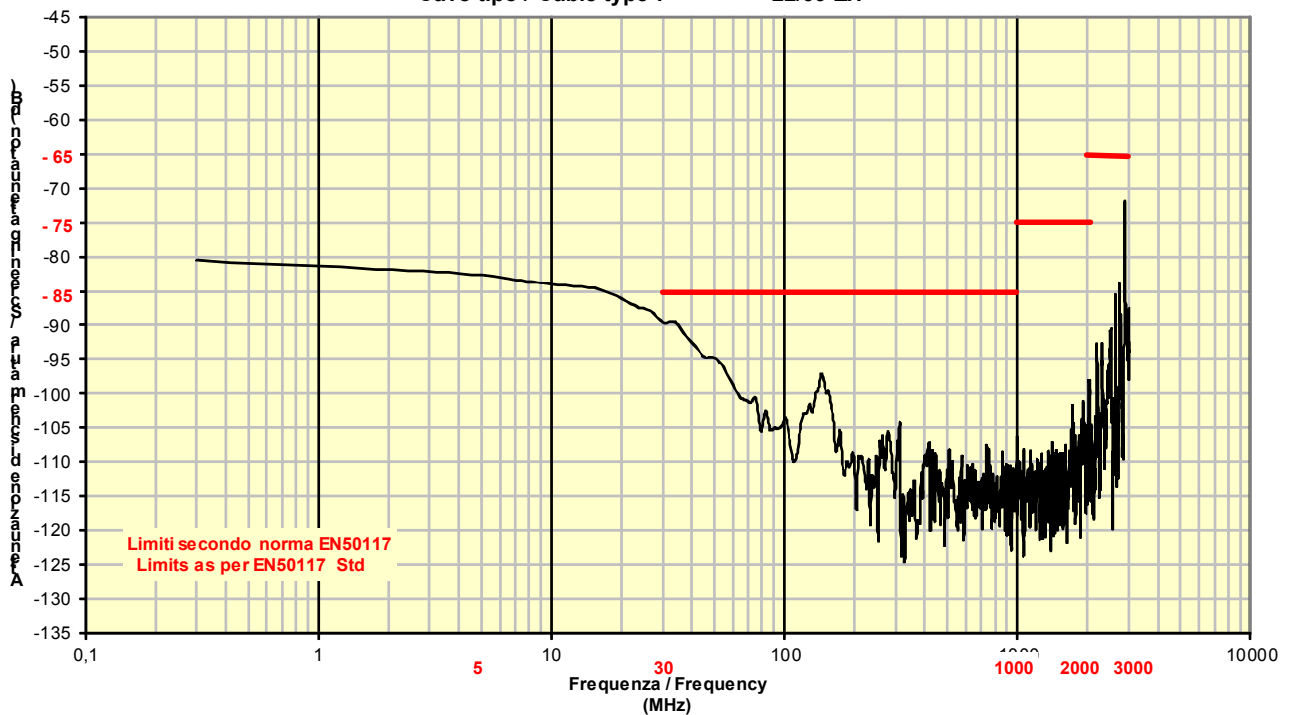
Standards

EN 50117-2-3

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

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



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Data Sheet**22/99ZH****Connector**

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

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