

Description

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



Data Sheet

TS22/99J



2,20 (Cu)	9,90 (PEG)	10,12 (Al/Pet/Al/Sur)	10,72 (CuSn)	10,84 AL/Pet J-foil	13,10 (PE)
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Constructive 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		mm
Aluminium/Polyester j-fold and longitudinally overlapped	Al/Pet J-foil	8 (44+4x 30/19	µm
Diameter under Sheath		10,72	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack (Q4)	(PE)	13,10 ± 0,20	mm

Printed each meter by yellow ink-jet :

CCS TV 75 Ohm CAVEL TS 2.2/9.9 J 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 %	
Outer conductor resistance	4,50	Ohm/km
Loop resistance	9,50	Ohm/km
Insulation voltage of the sheath (spark test)	8	kV
Maximum current (Ieff)	21,00	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	

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Tel +39-382.815150 Fax +39-0382.814212

Date

22/06/2005

Responsible

PierPaolo Piccinini

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Coaxial Cables

CAVEL®

since 1968

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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		

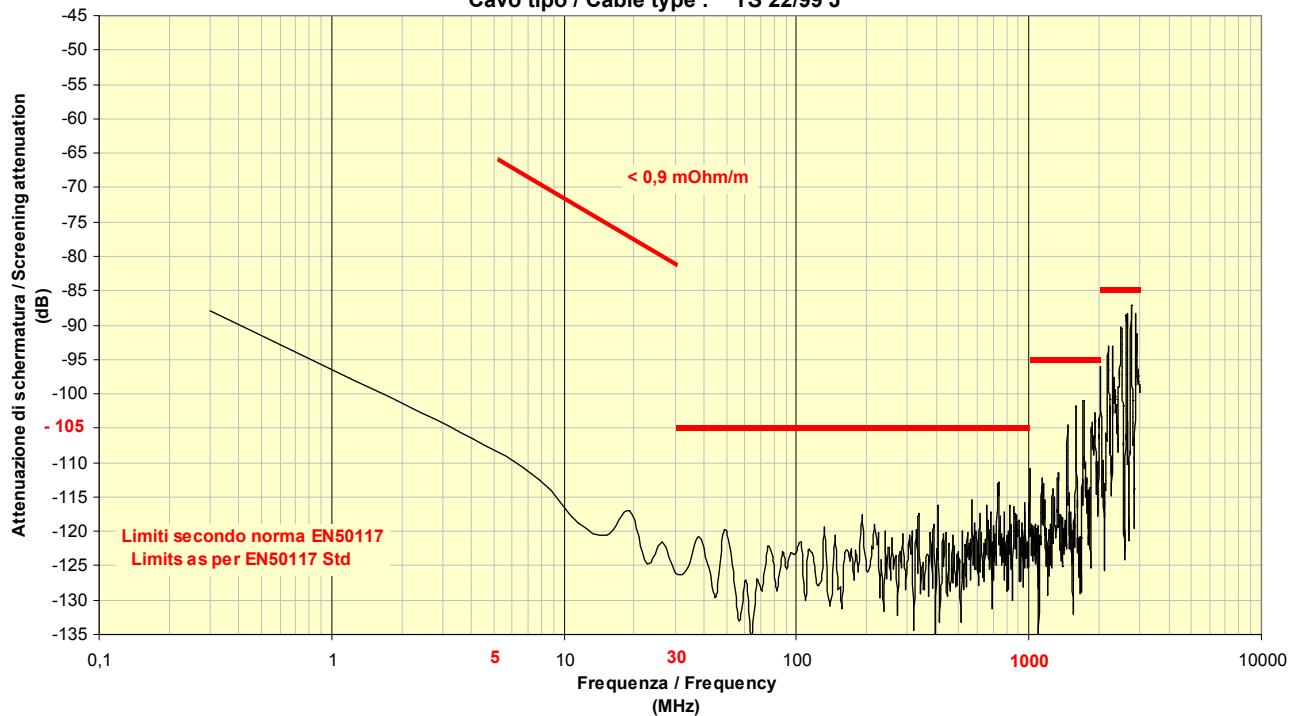
Mechanical data

Weight of copper conductors	61,00	kg/km
Total weight of cable	133,00	kg/km
Minimum bending radius (single/repeated bending)	150	mm
Max. cable pulling strength	600	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type : TS 22/99 J



Connector

FM-13	F male connector for outdoor and underground installation, nitin-plated brass - 58,5 x 22,5 mm
IEC14M-13	IEC male connector for outdoor and underground installation, nitin-plated brass - 70,0 x 23,0 mm
NM-13	N male connector for outdoor and underground installation, nitin-plated brass - 62,0 x 23,0 mm
5/8MU-13	5/8" connector for outdoor and underground installation, nitin-plated brass - 59,0 x 22,5 mm
3,5/12M-13	3,5/12" connector for outdoor and underground installation, nitin-plated brass - 68,0 x 23,0 mm

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