

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)

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

EN 50117-2-3

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

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
Aluminum/Polyester/Aluminum/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		
Aluminum/Polyester j-fold and longitudinally overlapped	(Al/Pet J-foil)	48 (44+4) x 30/19	mm/µm
Diameter over Braid		Ø 10,84	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	Ø 13,10 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL TS 2.2/9.9 J MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 Class A+ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K ggaan m

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

Physical data

Weight of copper conductors	61,94	kg/km
Total weight of cable	137,70	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

Electrical data

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

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Date**12/05/2017****Responsible****PierPaolo Piccinini**

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Velocity Ratio	85 %	
Inner conductor resistance	5	Ohm/km
Outer conductor resistance	4,50	Ohm/km
Loop resistance	9,50	Ohm/km
Sheat Insulation voltage (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)	SA-Class A++	Transfer Impedance (Zt)	Zt-Class A+
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 2 mOhm/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>85 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	13,80
50	2,00	2150	15,50
200	4,00	2400	16,50
300	4,90	3000	18,90
470	6,40		

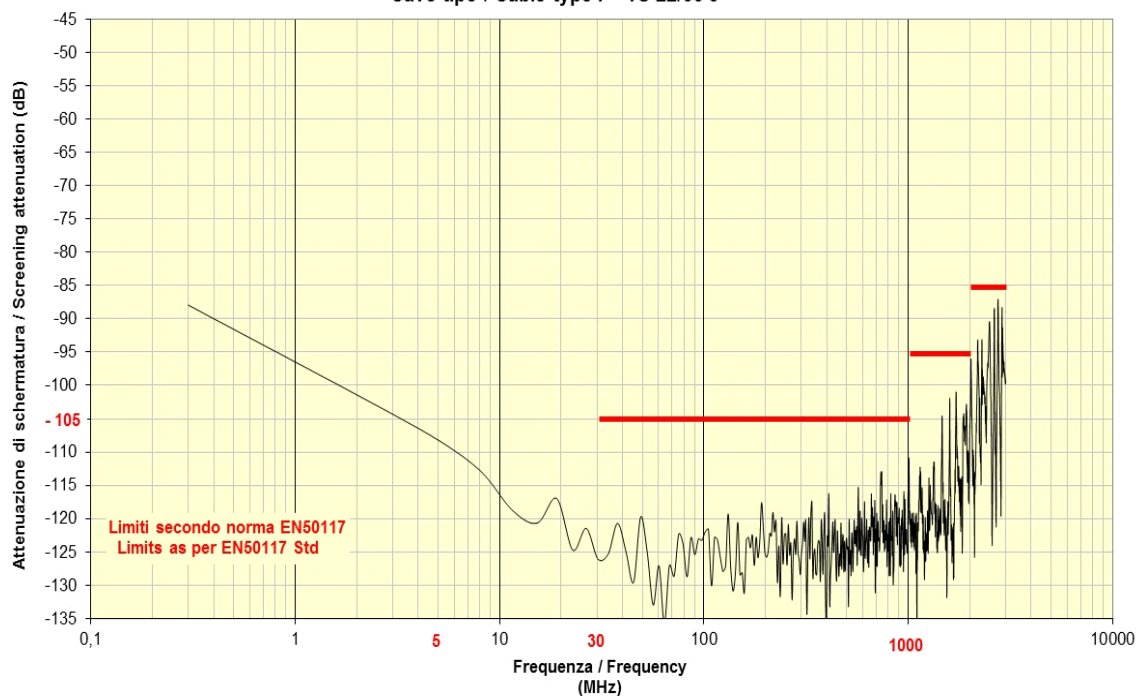
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**Data Sheet****TS22/99J****Attenuazione di schermatura / Screening Attenuation****Cavo classe A++ / A++ Class cable****Cavo tipo / Cable type : TS 22/99 J****Connectors**

- 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
- 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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