

Description

Triple Shielded Coaxial Cable, for transport and distribution, for digital reception - 75 Ohm
Outdoor and Underground installation cable (Screening attenuation - 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

EN50117-11-2 CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Exterior and Underground Installation

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+Surlyn 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)		
Diameter under Sheath		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 EN50117-11-2 SA Class A++ CEI-UNEL 36762
C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m**

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.

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Date

13/07/2023

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	61,94	kg/km
Total weight of cable	137,70	kg/km
Minimum bending radius (single/repeated bending)	130	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
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	>26 dB		
470 - 1000 MHz	>23 Db		
1000 - 2000 MHz	>20 dB		
2000 - 3000 MHz	>18 dB		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Zt)	
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 2,0 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	0,90	690	7,90
10	1,20	1000	10,00
30	1,60	1750	14,20
50	2,10	2150	16,00
200	4,20	2400	18,00
300	5,20	3000	20,00
470	6,60		

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
- CS22** Stripper for Distribution Cables, just for Trunk 22/99, Tools -
- FM-TL313** Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 58,5 mm x 22,5 m
- IEC14M-13** Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 70,0 mm x 23,0 mm

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