

Description

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

Coaxial Cables

CAVEL

since 1968

Data Sheet

TS20/91L

Ø	2,00	9,10	9,32	9,92	10,04	12,50
	(Cu)	(PEG)	(Al/Pet/Al+Sur)	(CuSn)	(Al/Pet)	(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 2,00 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 9,10 ± 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)		68	%
Tracer Identifier	Year + Flag		
External Aluminum/Polyester tape	(Al/Pet)		
Diameter under Sheath		Ø 10,04	mm
Outer sheath of Polyethylene - black with two green bands - with carbonblack	(PE)	Ø 12,50 ± 0,20	mm

Printed each meter by yellow ink-jet :

CAVEL TS 20/91 L 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

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

ITALIANA CONDUTTORI s.r.l.

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 Tel +39-382.815150 Fax +39-0382.814212

Date

20/07/2023

Responsible

A. Bergaglio

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TS20/91L**Physical data**

Weight of copper conductors	55,41	kg/km
Total weight of cable	136,00	kg/km
Minimum bending radius (single/repeated bending)	125	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		5,50	Ohm/km
Outer conductor resistance		4	Ohm/km
Loop resistance		9,50	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I _{eff})		21	A
Structural return loss (SRL)			
30 - 470 MHz	>26 dB		
470 - 862 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Z _t)	Z _t -Class A++
30 - 1000 MHz	>120 dB	5 - 30 MHz	< 0,9 mOhm/m
1000 - 2000 MHz	>105 dB		
2000 - 3000 MHz	> 90 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,00	690	9,00
10	1,30	1000	10,90
30	1,80	1750	14,80
50	2,30	2150	16,50
200	4,60	2400	17,60
300	5,70	3000	19,80
470	7,10		

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