

## Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm  
Indoor and Outdoor installation cable (Screening attenuation - Class A+)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

RP705N



Ø	1,13	4,75	4,90	5,38	6,80
	(Cu)	(PEG)	(Al/Pet)	(Al)	(PVC)

## Standards

EN50117-9-2

CEI-UNEL 36762

## Application

DOCSIS 3.1 (Data Over Coax System)

4K-UHD

Indoor Installation

## Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,75 ± 0,10	mm
Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of aluminum wires	(Al)		
Braid optical coverage (IEC 96-1)		43	%
Diameter over Braid		Ø 5,38	mm
Outer sheath of Polyvinylchloride - black (RAL 9011) - lead-free	(PVC)	Ø 6,80 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL RP705N 17VA1C MADE IN ITALY 75 Ohm EN50117-9-2 SA Class A+ CEI-UNEL 36762 C-4 (U = 400V) ULTRA HD / 4K gggaa(n) m**

(gggaan=batch number m=meter marking)

## Physical data

Weight of copper conductors	8,85	kg/km
Total weight of cable	38,80	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

## Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		22	Ohm/km
Loop resistance		40	Ohm/km

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Date

28/07/2023

Responsible

A. Bergaglio

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Sheat Insulation voltage (spark test)		3	kV
Maximum current (Ieff)		8	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		
Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Zt)	
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 14 mOhm/m
1000 - 2000 MHz	>90 dB		
2000 - 3000 MHz	>80 dB		

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,50	470	12,50
10	2,00	800	16,60
30	3,10	1000	18,70
50	4,00	1750	25,30
200	8,10	2150	28,90
300	10,00	2400	30,10

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