

Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm

Outdoor and Underground installation cable (Screening attenuation - Class A+)

Coaxial Cables

CAVEL

since 1968

Data Sheet

RP705P

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

EN50117-10-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

4K-UHD

Exterior and Underground 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 Polyethylene - black (RAL 9011) - with carbonblack	(PE)	Ø 6,80 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL RP705P 17PAtC MADE IN ITALY 75 Ohm Euroclass Fca EN50117-10-2 SA Class A+ CEI-UNEL 36762 C-4 (U0 = 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	33,10	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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Date

28/07/2023

Responsible

A. Bergaglio

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RP705P**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
Sheat Insulation voltage (spark test)		5	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+

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>75 Db

Transfer Impedance (Zt)

5 - 30 MHz

< 14 mOhm/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,30	690	15,50
10	2,00	1000	18,70
30	3,10	1750	25,30
50	4,00	2150	28,90
200	8,10	2400	30,10
300	10,00	3000	35,00
470	12,50		

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RP705P**Connectors**

BNCC703	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
C75-5L	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CCFM75GI	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
CS00	Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -
DR01	Adapter, Nut and Washer, for INDOOR installation
F703	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
F81-HQ	Adapter, F Adapter FF, for INDOOR installation
F90	Series F Crimp, F Crimp, for INDOOR installation
FA17	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FA703	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for OUTDOOR installation
FC703	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FC703C	Series F Compression, F Compression, for OUTDOOR installation
FCEM7.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass
FM-FF90	Adapter, FM - FF 90°, for INDOOR installation
IECF5.1C	Series IEC (toolless), female, no tool, for INDOOR installation
IECF90C	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
IECF703	Serie IEC Compression, female, no tool, for OUTDOOR installation
IECM5.1C	Series IEC (toolless), male, no tool, for INDOOR installation
IECM90C	Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation
IECM703	Serie IEC Compression, male, for OUTDOOR installation
LTE790	Indoor Fittings, Filter, for INDOOR installation
MM-F703	Adapter, F Adapter MM, for INDOOR installation
MM-FR703	Adapter, F Adapter MM, for INDOOR installation
SAT2VS	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation
TV2VS	Indoor Fittings, IEC TV 2-way Splitter, for INDOOR installation

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