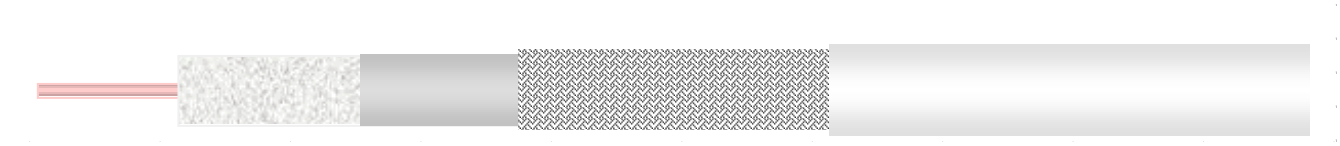
Description

Double Shielded Coaxial Connection Cable, for digital reception - 75 Ohm
Screening attenuation - Class A+

Data Sheet

RP55B



Ø	0,80	3,50	3,65	4,13	5,20
	(Cu)	(PEG)	(Al/Pet)	(Al)	(PVC)

Class CPR acc. to UE 305/2011 (DoP)

Eca

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

EN50117-9-2 CEI-UNEL 36762

Reaction to Fire

EN50575

Application

4K-UHD

Indoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,80 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,50 ± 0,10	mm
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of aluminum wires	(Al)		
Braid optical coverage (IEC 96-1)		81	%
Diameter over Braid		Ø 4,13	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 5,20 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL RP55B MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 SA Class A+ CEI-UNEL 36762 C-4 (U0=400V) ULTRA HD/4K gggaa m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	4,50	kg/km
Total weight of cable	24,90	kg/km
Minimum bending radius (single/repetead bending)	25/50	mm
Maximum cable pulling strength	90	N
Maximum tensile strength during the installation	90	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

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Date 01/09/2022

Responsible A. Bergaglio

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Velocity Ratio	85 %	
Inner conductor resistance	35	Ohm/km
Outer conductor resistance	19	Ohm/km
Loop resistance	54	Ohm/km
Sheat Insulation voltage (spark test)	2,50	kV
Maximum current (Ieff)	4	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	> 85 dB
2000 - 3000 MHz	> 80 dB

Transfer Impedance (Zt)	
5 - 30 MHz	< 4 mOhm/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,70	862	22,90
10	2,50	1000	24,80
30	4,10	1750	33,40
50	5,30	2150	37,60
200	10,70	2400	40,00
300	13,20	3000	44,60
470	16,60		

Connectors

CS00	Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -
FCEM5.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass

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