

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	5,30
	(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

DOCSIS 3.1 (Data Over Coax System)

8K-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 5,30 ± 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/8K gggaa(n) m

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.

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Date**13/03/2026****Responsible****A. Bergaglio**

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**Data Sheet****RP55B****Physical data**

Weight of copper conductors	4,50	kg/km
Total weight of cable	24,90	kg/km
Minimum bending radius (single/repeated 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
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 (I _{eff})		4	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>26 dB		
1000 - 2000 MHz	>24 dB		
2000 - 3000 MHz	>20 dB		

Screening Attenuation (SA)	SA-Class A+	Transfer Impedance (Z _t)	
30 - 1000 MHz	> 95 dB	5 - 30 MHz	< 4 mOhm/m
1000 - 2000 MHz	> 85 dB		
2000 - 3000 MHz	> 80 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,90	690	22,00
10	2,70	1000	26,50
30	4,30	1750	35,50
50	5,50	2150	39,50
200	11,20	2400	42,00
300	13,70	3000	49,00
470	17,50		

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**Data Sheet****RP55B****Connectors**

FA501	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
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
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
F501	Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
IECF905C	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation
IECF3.9C	Series IEC (toolless), female, no tool, for INDOOR installation -
IECM3.9C	Series IEC (toolless), male, no tool, for INDOOR installation -

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