

Description

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

Coaxial Cables

CAVEL®

since 1968

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)

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 5,30 ± 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/4K gggaa(n) m**

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

21/09/2023

Responsible

A. Bergaglio

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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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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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