

Description

Double Shielded Coaxial Connection Cable, for digital reception -
75 Ohm
Indoor installation cable (Screening attenuation - Class A++)

Coaxial Cables

CAVEL

since 1968

Data Sheet

RP80B

Ø	0,80	3,50	3,65	4,05	5,20
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(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)

CATV

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
Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		79	%
Diameter over Braid		Ø 4,05	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 5,20 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL RP 80 B 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.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

27/07/2023

Responsible

A. Bergaglio

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RP80B**Physical data**

Weight of copper conductors	13,67	kg/km
Total weight of cable	31,70	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	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		11,80	Ohm/km
Loop resistance		46,80	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	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		

Screening Attenuation (SA)	SA-Class A++	Transfer Impedance (Z _t)	Z _t -Class A++
30 - 1000 MHz	>105 dB	5 - 30 MHz	< 0,9 mOhm/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>85 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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RP80B**Connectors**

BNCC3.9C	Series BNC Compression, BNC Compression, for OUTDOOR installation
BNCC501	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
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
F81-HQ	Adapter, F Adapter FF, for INDOOR installation
FC5.0QMS	Series F Compression, Short Quick Mount, for OUTDOOR installation
FC501	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
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
FM-FF90	Adapter, FM - FF 90°, for INDOOR installation
IECF905C	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C	Series IEC (toolless), Ø 3,9 90° male, for INDOOR 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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