

Description

Double Shielded Coaxial Connection Cable, for digital reception - 75 Ohm
Cable for digital reception (Screening Attenuation - Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG80CZHB

Ø	0,80	3,50	3,60	4,00	5,60
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(LSZH-FR)

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

Cca s1a,d1,a1

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

EN50288-10-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

4K-UHD

Indoor + Outdoor 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/Aluminum tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		65	%
Diameter over Braid		Ø 4,00	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH-FR)	Ø 5,60 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL DG 80 C ZHB MADE IN ITALY 75 Ohm Euroclass Cca s1a, d1, a1 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)

Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	34,30	kg/km
Minimum bending radius (single/repeated bending)	30/60	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +70	°C

ITALIANA CONDUTTORI s.r.l.

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Date

12/06/2023

Responsible

A. Bergaglio

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DG80CZHB**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		18,60	Ohm/km
Loop resistance		53,60	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	>90 dB
1000 - 2000 MHz	>75 dB
2000 - 3000 MHz	>65 dB

Transfer Impedance (Zt)

5 - 30 MHz

< 9 mOhm/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	690	20,40
10	3,00	1000	24,90
30	4,40	1750	33,50
50	5,70	2150	37,40
200	11,00	2400	39,60
300	13,50	3000	44,80
470	16,80		

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