

**Description**

Double Shielded Coaxial Connection Cable, for digital reception -  
75 Ohm  
Cable for digital reception

Coaxial Cables

**CAVEL®**

since 1968

Data Sheet

**DG70**

Ø	0,70	3,00	3,10	3,50	4,40
	(Cu)	(PEG)	(Al/Pet/Al)	(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

**Reaction to Fire**

EN50575

**Application**

4K-UHD

Indoor Installation

**Construction data**

Inner conductor of plain copper	(Cu)	Ø 0,70 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,00 ± 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)		72	%
Diameter over Braid		Ø 3,50	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 4,40 ± 0,10	mm
Printed each meter by blue ink-jet :			

**CAVEL DG 70 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 SA Class A ULTRA HD / 4K ggaan m**

(ggaan=batch number m=meter marking)

**Physical data**

Weight of copper conductors	10,04	kg/km
Total weight of cable	20,76	kg/km
Minimum bending radius (single/repeated bending)	20/40	mm
Maximum cable pulling strength	80	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

**Electrical data****ITALIANA CONDUTTORI s.r.l.**

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

Date

10/04/2024

Responsible

A. Bergaglio

**Description**

Double Shielded Coaxial Connection Cable, for digital reception -  
75 Ohm  
Cable for digital reception



Data Sheet

**DG70**

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		45,50	Ohm/km
Outer conductor resistance		19,60	Ohm/km
Loop resistance		65,10	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (Ieff)		3	A
Structural return loss (SRL)			
5 - 470 MHz	>28 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		

Screening Attenuation (SA)	SA-Class A	Transfer Impedance (Zt)	
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 7 mOhm/m
1000 - 2000 MHz	>75 dB		
2000 - 3000 MHz	>67 dB		

Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,50	690	24,00
10	3,50	862	27,80
30	5,20	1000	29,90
50	6,70	1750	40,30
200	13,00	2150	45,00
300	15,90	2400	47,90
470	20,20	3000	53,70

**Connectors**

- C75-5L** Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
- CCFM75GI** Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
- CS70** Stripper for Drop Cables, just for DG70, VSHD70, Tools -
- DR01** Adapter, Nut and Washer, for INDOOR installation
- F70** Series F Crimp, F Crimp for DG70, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
- F81-HQ** Adapter, F Adapter FF, for INDOOR installation
- FA70** Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
- FM-FF90** Adapter, FM - FF 90°, 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

**ITALIANA CONDUTTORI s.r.l.**

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

Date

10/04/2024

Responsible

A. Bergaglio