

Description

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



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

8K-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 / 8K gggaan m

(gggaan=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

Characteristic impedance	200 MHz	75 ± 3	Ohm
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Date

09/03/2026

Responsible

A. Bergaglio

Description				Data Sheet
Double Shielded Coaxial Connection Cable, for digital reception - 75 Ohm Cable for digital reception				DG70
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	
1000 - 2000 MHz		>75 dB	< 7 mOhm/m	
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			
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