

Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG70



Ø	0,70	2,90	3,00	3,40	4,30
	(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

EN 50117-2-4

Reaction to Fire

EN50575

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,70 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 2,90 ± 0,10	mm
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		73	%
Diameter over Braid		Ø 3,40	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 4,30 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL DG 70 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V)

ULTRA HD / 4K 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	-40 / +80	°C

Electrical data

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

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

29/02/2016

Responsible

PierPaolo Piccinini

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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

Shield Transfer Impedance (Zt)

Zt-Class B

5 - 30 MHz

< 7 mOhm/m

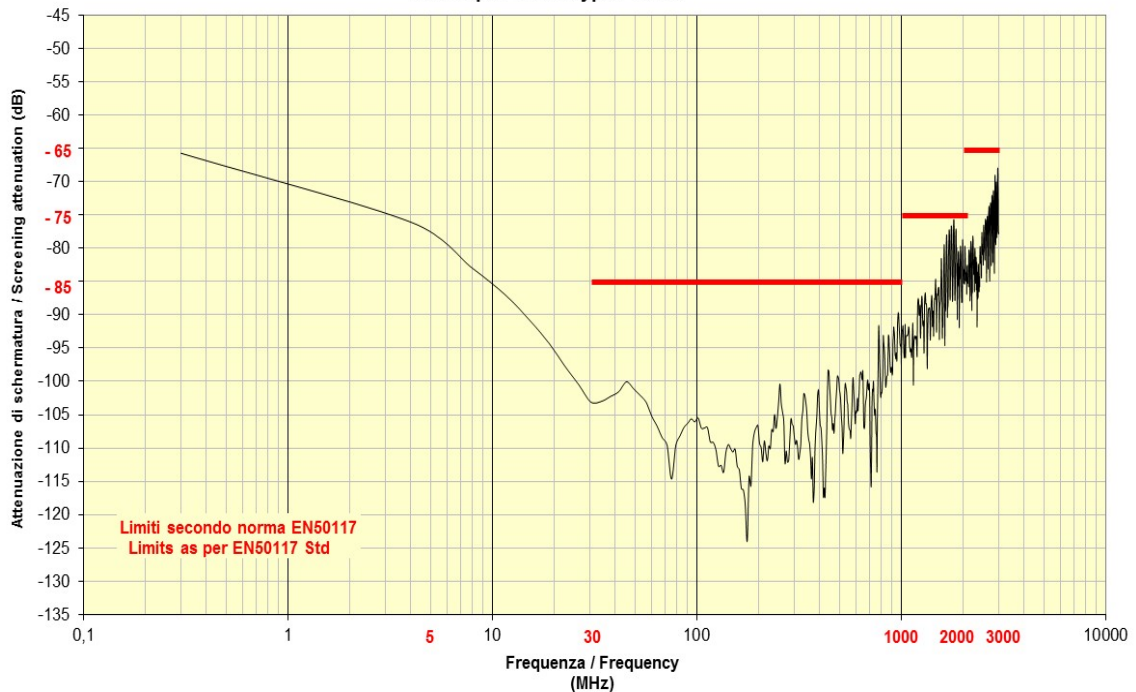
Attenuation (at 20°C)

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

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: DG 70



Connectors

F70 Series F Crimp, F Crimp for DG70, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm

FA70 Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm

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