

Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm

Indoor installation cable (Screening attenuation - Class A+)



Data Sheet

DG100

Ø	1,00	4,30	4,40	4,80	6,00
	(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

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

4K-UHD

Indoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,30 ± 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)		76	%
Diameter over Braid		Ø 4,80	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 6,00 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL DG 100 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

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	17,45	kg/km
Total weight of cable	37,45	kg/km
Minimum bending radius (single/repeated bending)	30/60	mm
Maximum cable pulling strength	120	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +70	°C

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Date

12/06/2023

Responsible

A. Bergaglio

Description				Data Sheet
Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm				DG100
Indoor installation cable (Screening attenuation - Class A+)				
Electrical data				
Characteristic impedance	200 MHz	75 ± 3	Ohm	
Capacitance (@1kHz)		52 ± 2	pF/m	
Velocity Ratio		85 %		
Inner conductor resistance		22,50	Ohm/km	
Outer conductor resistance		13,70	Ohm/km	
Loop resistance		36,20	Ohm/km	
Sheat Insulation voltage (spark test)		2,50	kV	
Maximum current (Ieff)		6	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 (Zt)		
30 - 1000 MHz	>100 dB	5 - 30 MHz	< 6 mΩ/m	
1000 - 2000 MHz	>90 dB			
2000 - 3000 MHz	>77 dB			
Attenuation (at 20°C)				
Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]	
5	1,80	690	17,00	
10	2,50	1000	20,70	
30	3,60	1750	27,90	
50	4,60	2150	31,10	
200	9,00	2400	32,90	
300	10,70	3000	37,30	
470	14,00			
Connectors				
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			
F81-HQ	Adapter, F Adapter FF, for INDOOR installation			
F90	Series F Crimp, F Crimp, for INDOOR installation			
FA602	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm			
FCPO4.7C	Series F Compression, Ø 4,7 Push-On, for OUTDOOR installation, nitin-plated brass			
FM-FF90	Adapter, FM - FF 90°, for INDOOR installation			
FR703	Series F Crimp, F crimp, "Rapid", 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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