

## 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

DG80



Ø	0,80	3,50	3,60	4,00	5,00
	(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

4K-UHD

Indoor 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 Polyvinylchloride - white - lead-free	(PVC)	Ø 5,00 ± 0,10	mm
Printed each meter by blue ink-jet :			

**CAVEL DG 80 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 SA Class A CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaan m**

(gggaan=batch number m=meter marking)

## Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	25,90	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	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

12/06/2023

Responsible

A. Bergaglio

**Description**

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



Data Sheet

**DG80**

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	Transfer Impedance (Zt)	
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 9 mOhm/m
1000 - 2000 MHz	>75 dB		
2000 - 3000 MHz	>65 dB		

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		

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

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

Date

12/06/2023

Responsible

A. Bergaglio

**Description**

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



Data Sheet

**DG80****Connectors**

<b>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation
<b>BNCC501</b>	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>C75-5L</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CCFM75GI</b>	Indoor Fittings, 75 Ohm Terminator, for INDOOR installation
<b>CS00</b>	Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools -
<b>DR01</b>	Adapter, Nut and Washer, for INDOOR installation
<b>F501</b>	Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F81-HQ</b>	Adapter, F Adapter FF, for INDOOR installation
<b>FA501</b>	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FC5.0QMS</b>	Series F Compression, Short Quick Mount, for OUTDOOR installation
<b>FC501</b>	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FCPO3.9C</b>	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
<b>FM-FF90</b>	Adapter, FM - FF 90°, for INDOOR installation
<b>IECF905C</b>	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
<b>IECM905C</b>	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation
<b>LTE790</b>	Indoor Fittings, Filter, for INDOOR installation
<b>MM-F703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>MM-FR703</b>	Adapter, F Adapter MM, for INDOOR installation
<b>SAT2VS</b>	Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation
<b>TV2VS</b>	Indoor Fittings, IEC TV 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

**12/06/2023**

Responsible

**A. Bergaglio**