

## Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception (Screening Class A)

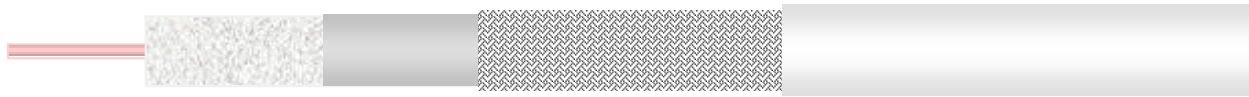
Coaxial Cables

CAVEL®

since 1968

## Data Sheet

DG80

0,80  
(Cu)3,50  
(PEG)3,60  
(Al/Pet/Al)4,00  
(CuSn)5,00  
(PVC)

## Constructive data

Inner conductor of plain copper	(Cu)	0,80 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	3,50 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		65 %
Diameter under Sheath		4,00 mm
Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B)	(PVC)	5,00 ± 0,10 mm

Printed each meter by black ink-jet :

**CAVEL DG 80 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m**

(ss=week, aa=year) (m=meter marking)

## Electrical data

Characteristic impedance (@ 200 MHz)	75 ± 3	Ohm
Capacitance (@1kHz)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	18,60	Ohm/km
Loop resistance	53,60	Ohm/km
Insulation voltage of the sheath (spark test)	2,50	kV
Maximum current (Ieff)	4,00	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)

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>70 dB

## Transfer impedance

5 - 30 MHz &lt; 0,35 mOhm/m

## ITALIANA CONDUTTORI s.r.l.

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

## Date

08/09/2008

## Responsible

PierPaolo Piccinini

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	862	23,00
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		

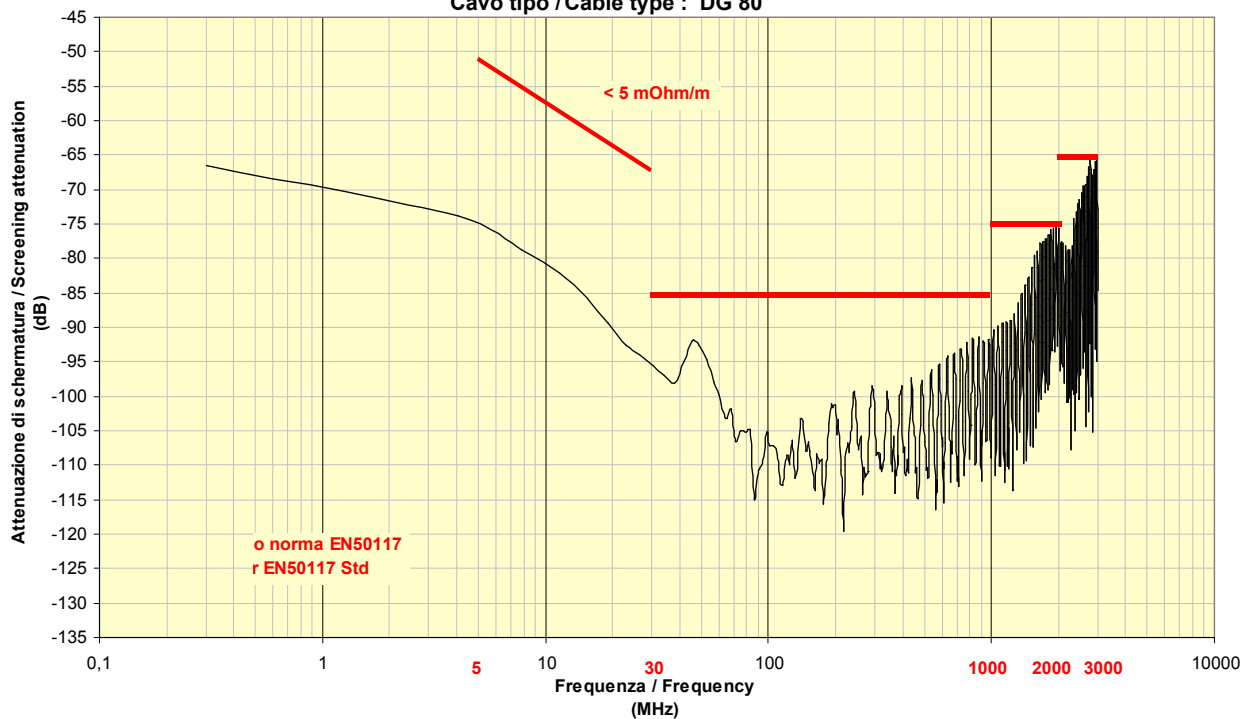
## Mechanical data

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
Max. cable pulling strength	90	N

## Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DG 80



## Connector

<b>FA501</b>	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
<b>F501</b>	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
<b>FC501</b>	F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm
<b>BNCC501</b>	BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm

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