

## Description

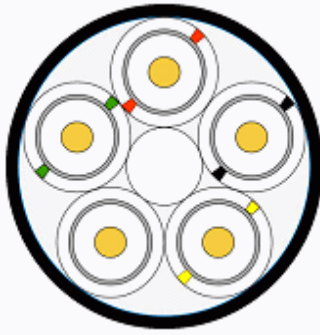
Multicore Caxial Cable  
SMATV 1st IF Distribution

Coaxial Cables

**CAVEL**

since 1968

Data Sheet

**5XDG80M****Construction data**

Polyester film spirally wond (Pet)

**Attached Data Sheet****Sheath Colour**

DG80

white (PVC)  
white with two yellow bands (RAL 1021)  
white with two black bands (PVC)  
white with two red bands (RAL 3000)  
white with two green bands (RAL 6018)

Central Filler	(PVC) white	3,50	mm
Outer sheath of Thermoplastic material black halogen free and flame retardant	(LSZH)	15,00 ± 0,25	mm
Metallic Suspension Cable of zinc-plated steel	(FeZn)	Ø 0,40	mm

Printed each meter by yellow ink-jet :

**CAVEL 5 x DG 80 M MADE IN ITALY 75 Ohm EN50117-2-5 CEI-UNEL 36762 C-4 (U0 =400V) \* LTE PROTECTION \* ss/aa**

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

**Mechanical data**

Weight of copper conductors	56,02	kg/km		
Total weight of cable	202,42	kg/km		
Fire Load	3.000	MJ/km	833	kWh/km

**Standards**

EN 50117-2-5

**Connector**

<b>FA501</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>BNCC501</b>	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>FC501</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>F501</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>IECF905C</b>	Series IEC (no tool), Ø 3,9 90° female, for indoor installation
<b>IECM905C</b>	Series IEC (no tool), Ø 3,9 90° male, for indoor installation
<b>FCPO3.9C</b>	Series F Compression, Ø 3,9 Push-On, for outdoor installation, nitin-plated brass
<b>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for outdoor installation

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

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

Date

Responsible

**Giuseppe Guastella**

## 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

5XDG80M



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

## Construction 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 (PVC) - lead-free	(PVC)	5,00 ± 0,10 mm

Printed each meter by blue ink-jet :

**CAVEL DG 80 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) \* LTE PROTECTION \***  
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 %	
Inner conductor resistance		35	Ohm/km
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 (I <sub>eff</sub> )		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)

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

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## Date

27/02/2012

## Responsible

PierPaolo Piccinini

Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception (Screening Class A)



Data Sheet

**DG80**  
5XDG80M

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	25,73	kg/km	
Minimum bending radius (single/repetead bending)	25/50	mm	
Maximum cable pulling strength	90	N	
Fire Load	349	MJ/km	97 kWh/km

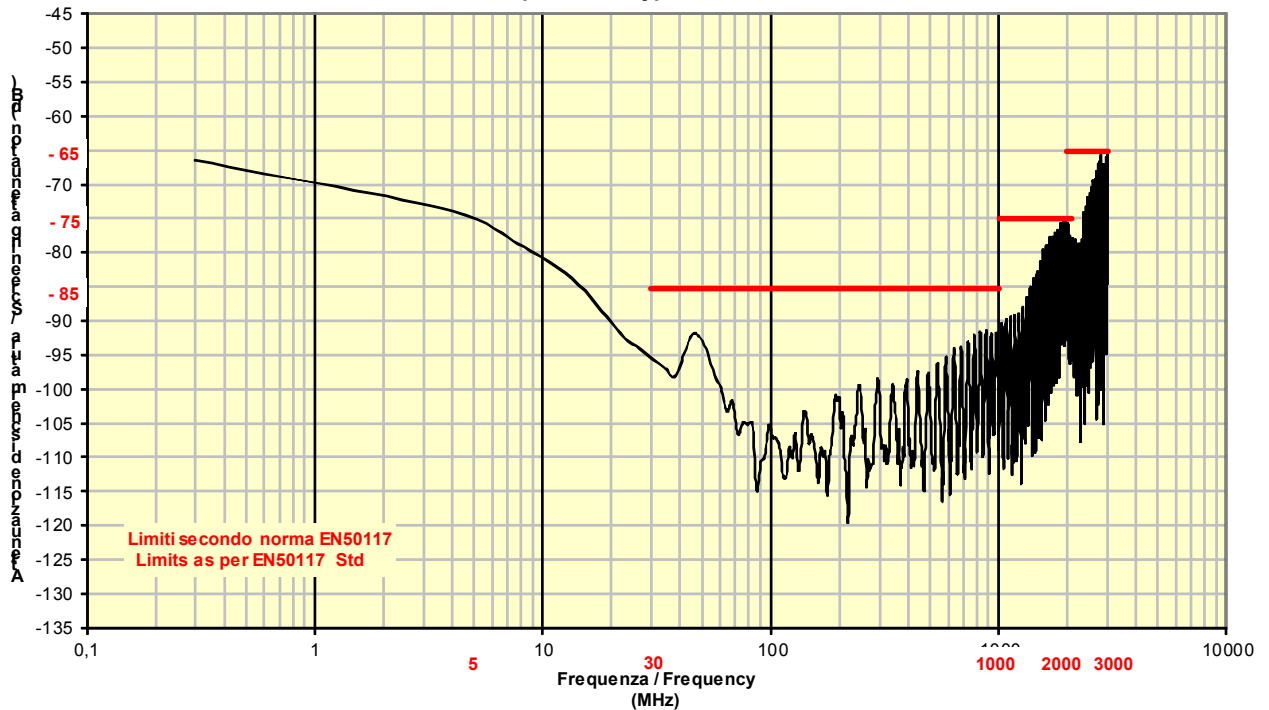
**Standards**

EN 50117-2-4

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A / A Class Cable**

Cavo tipo / Cable type : DG 80



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Cable for digital reception (Screening Class A)

**Data Sheet****DG80**

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