

## Description

"siamese" drop coaxial cable - 75 Ohm  
Cable for digital reception (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

2XDG80



## 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 %

## Attached Data Sheet

## Sheath Colour

DG80

white (PVC)

Outer sheath of Polyvinylchloride - white (PVC) - lead-free (PVC) 11,00 x 5,00 ± 0,20 mm

Printed each meter by blue ink-jet :

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

(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 (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)

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

01/07/2013

## Responsible

PierPaolo Piccinini

Description

"siamese" drop coaxial cable - 75 Ohm  
 Cable for digital reception (Screening Class A)



Data Sheet

2XDG80

**Mechanical data**

Weight of copper conductors	22,25	kg/km	
Total weight of cable	55,85	kg/km	
Minimum bending radius (single/repeated bending)	25/50	mm	
Maximum cable pulling strength	90	N	
Fire Load	784	MJ/km	218 kWh/km

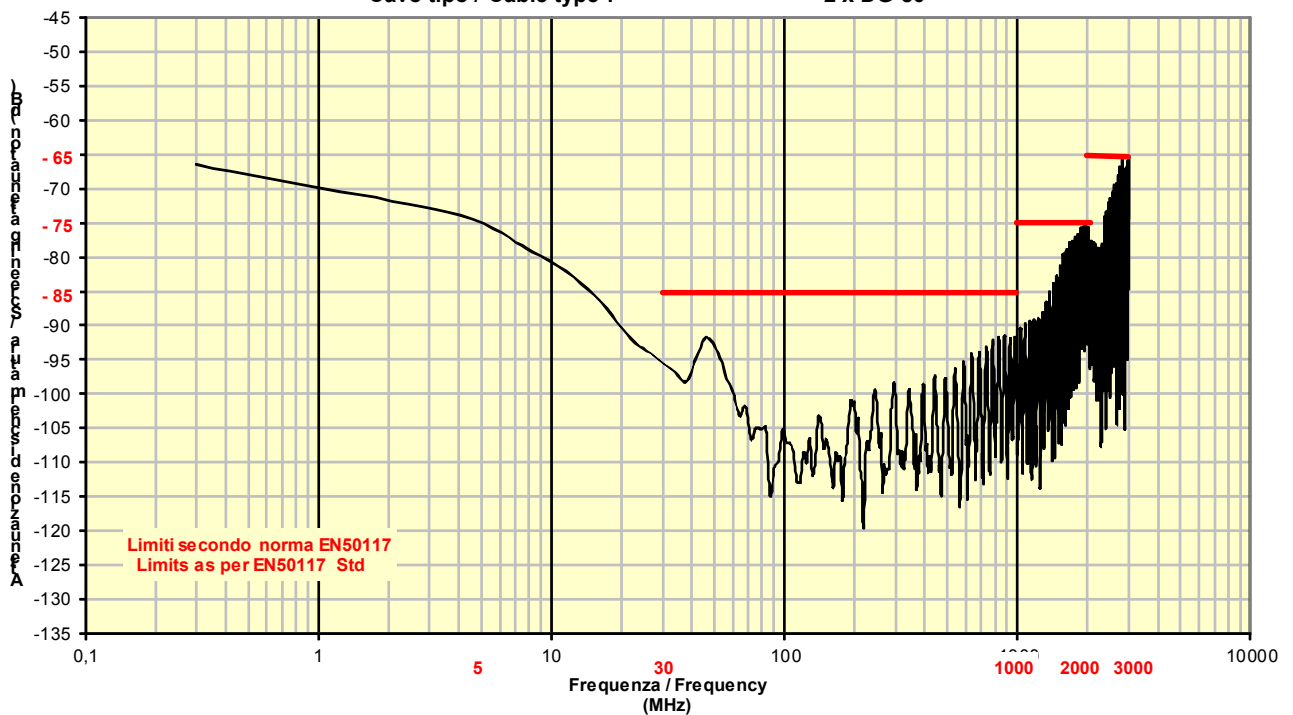
**Standards**

EN 50117-2-4

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A / A Class Cable**

Cavo tipo / Cable type : 2 x DG 80



**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>F501</b>	Series F Crimp, F Crimp, 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>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>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for outdoor installation
<b>FCPO3.9C</b>	Series F Compression, Ø 3,9 Push-On, for outdoor installation, nitin-plated brass

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Coaxial Cables

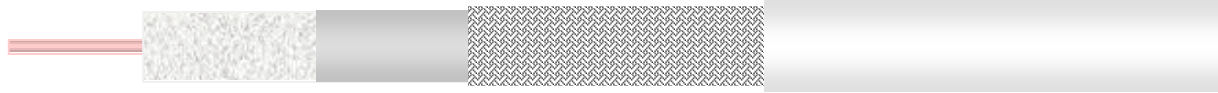
CAVEL®

since 1968

## Data Sheet

DG80

2XDG80



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 :

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Maximum current (I <sub>eff</sub> )		4	A

## Structural return loss (SRL)

5 - 470 MHz	>30 dB
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1000 - 2000 MHz	>26 dB
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## Screening Attenuation (SA)

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

## Transfer impedance

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

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Data Sheet

**DG80**  
2XDG80

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

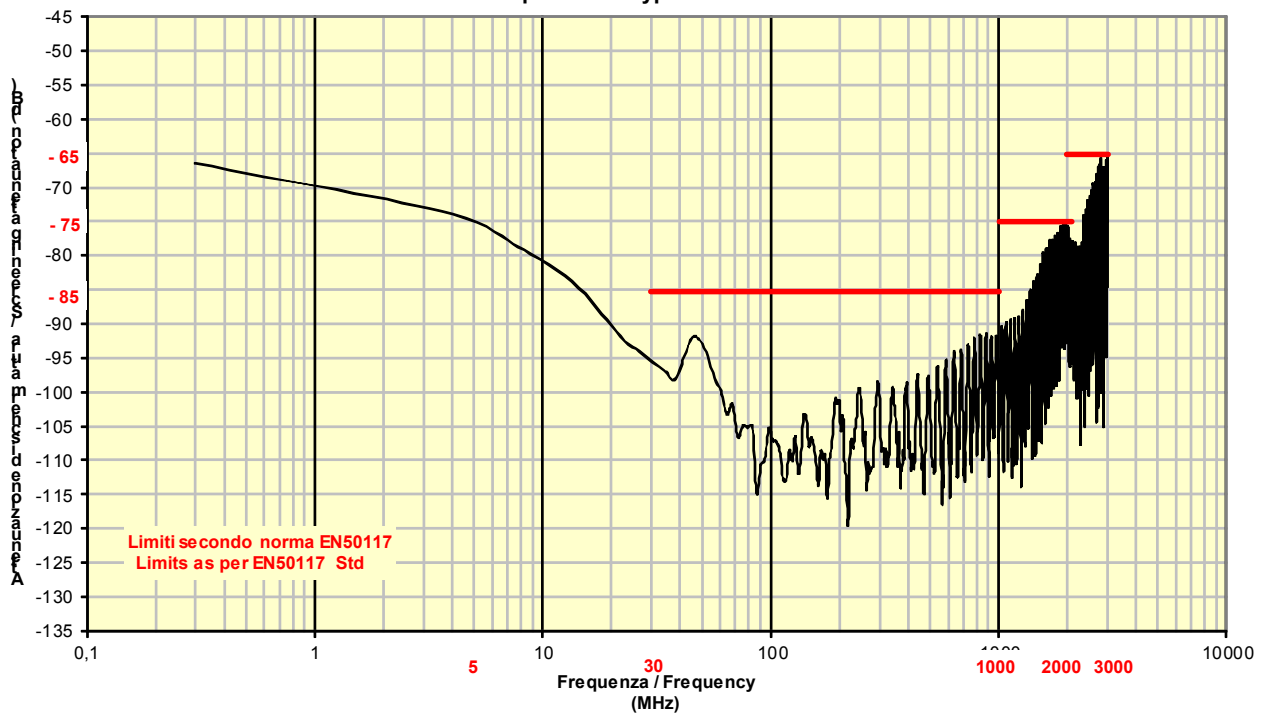
**Standards**

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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**Connector**

<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>BNCC3.9C</b>	Series BNC Compression, BNC Compression, for outdoor installation
<b>FA501</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
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