

## Description

Outdoor drop coaxial cable - 75 Ohm

Security sheath of LSZH material (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

DG80ZH



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

## 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 Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant (Q8)	(LSZH)	5,00 ± 0,10 mm

Printed each meter by black ink-jet :

**CAVEL DG 80 ZH MADE IN ITALY 75 Ohm EN50117-2-5 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)		Transfer impedance
30 - 1000 MHz	>90 dB	5 - 30 MHz < 0,35 mOhm/m
1000 - 2000 MHz	>80 dB	
2000 - 3000 MHz	>70 dB	

**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

## Description

Outdoor drop coaxial cable - 75 Ohm

Security sheath of LSZH material (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG80ZH

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		

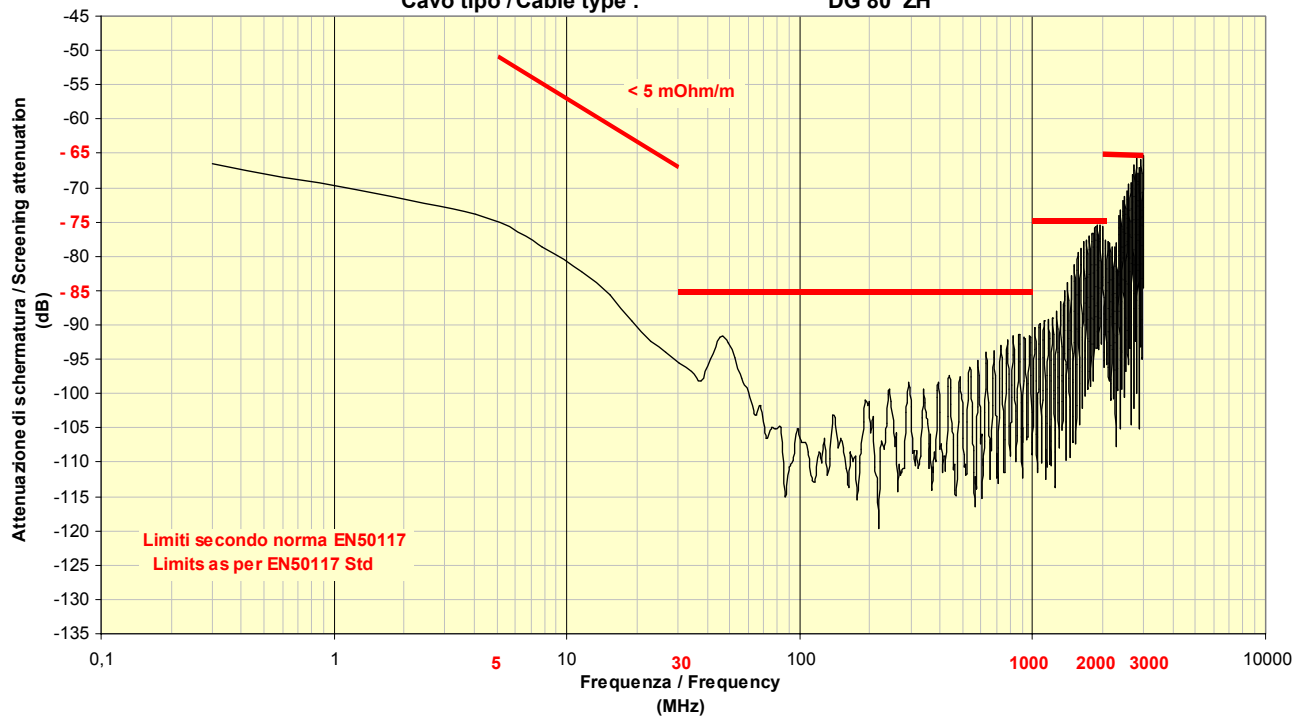
## Mechanical data

Weight of copper conductors	11,40	kg/km
Total weight of cable	26,70	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 ZH



## 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

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