

Description

Outdoor drop coaxial cable - 75 Ohm

Security sheath of LSZH material

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG80ZH



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

Class CPR acc. to UE 305/2011 (DoP)

Dca s2,d2,a1

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

EN 50117-2-5

Reaction to Fire

EN50575

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

Printed each meter by blue ink-jet :

CAVEL DG 80 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	26,60	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

Electrical data

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

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Responsible

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Maximum current (I_{eff}) 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 (Z_t)

Z_t-Class B

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>75 dB
2000 - 3000 MHz	>65 dB

5 - 30 MHz

< 9 mΩ/m

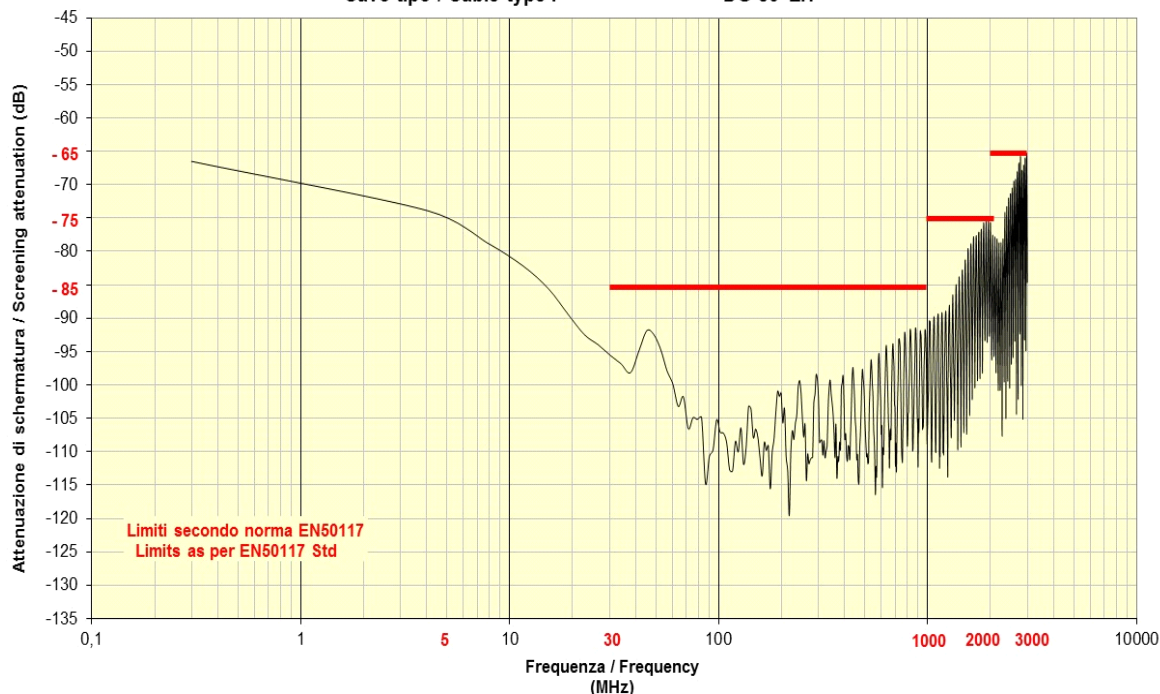
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : **DG 80 ZH**



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**Data Sheet****DG80ZH****Connectors**

BNCC3.9C	Series BNC Compression, BNC Compression, for OUTDOOR installation
BNCC501	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
F501	Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FA501	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
FC5.0QMS	Series F Compression, Short Quick Mount, for OUTDOOR installation
FC501	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FCM5.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FCPO3.9C	Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
IECF905C	Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C	Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation

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