

Description

Halogen free, low smoke emission coaxial cable - 75 Ohm
Indoor/Outdoor installation Cable (Screening Class A)

**Data Sheet****DG135SOHW**

Ø	1,13	4,80	4,97	5,45	6,70
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(Al)	(LSZH)

Class CPR acc. to UE 305/2011 (DoP)D_{ca} 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 50117-2-4

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of aluminium wires	(Al)	0,120	
Braid optical coverage (IEC 96-1)			52 %
Diameter over Braid		Ø 5,45	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,70 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL DG 135 S OHW MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	8,85	kg/km
Total weight of cable	38,80	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum tensile strength during the installation	150	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		18	Ohm/km
Outer conductor resistance		34	Ohm/km
Loop resistance		52	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (I _{eff})		8	A
Structural return loss (SRL)			

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

09/10/2017

Responsible

Alberto Scardovi

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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	Shield Transfer Impedance (Zt)	Zt-Class C
30 - 1000 MHz	>85 dB	5 - 30 MHz	< 38 mOhm/m
1000 - 2000 MHz	>75 dB		
2000 - 3000 MHz	> 70 dB		

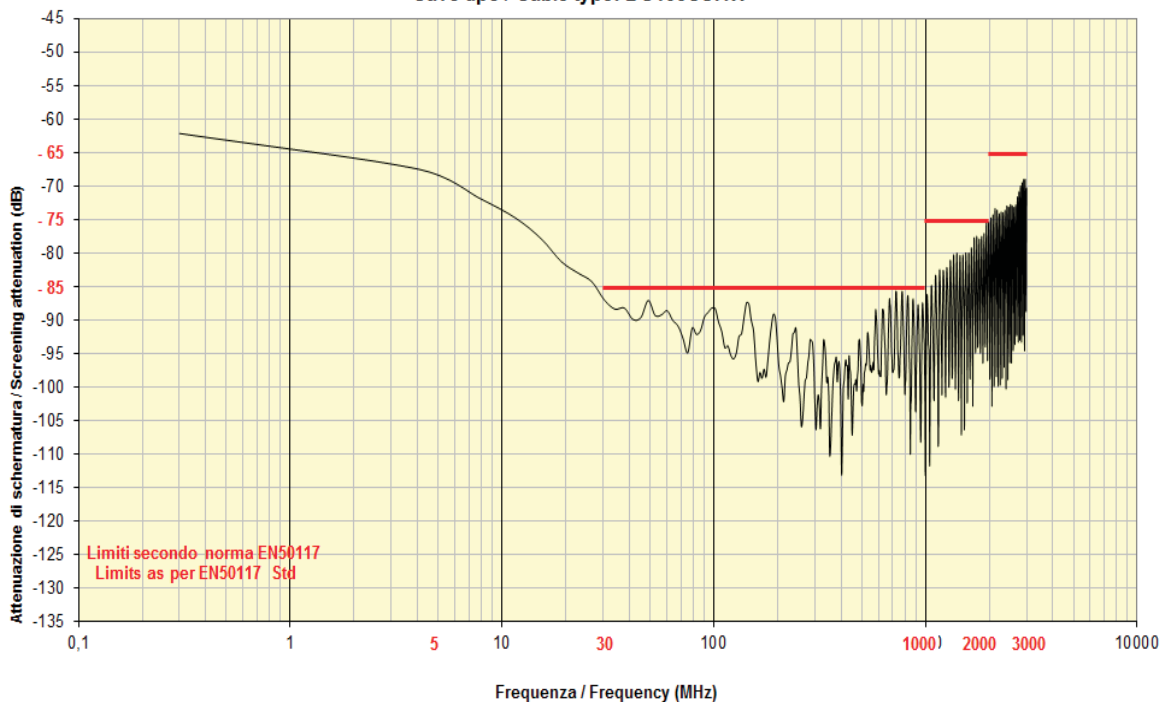
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,60	862	17,50
10	2,30	1000	18,90
30	3,20	1750	25,40
50	4,10	2150	28,40
200	8,00	2400	30,20
300	10,00	3000	34,30
470	12,70		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: DG135SOHW



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