

Description

Halogen free, low smoke emission coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A)

**Data Sheet****DG123OHW**

Ø	1,13	4,80	4,90	5,30	6,60
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(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

Fire-Resistance Rating

EN50575

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 tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	0,100	(CuSn)	
Braid optical coverage (IEC 96-1)		53	%
Diameter over Braid		Ø 5,30	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60 ± 0,10	mm
Printed each meter by blue ink-jet :			

CAVEL DG 123 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	15,56	kg/km
Total weight of cable	42,42	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
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		18,60	Ohm/km
Loop resistance		36,60	Ohm/km
Sheat Insulation voltage (spark test)		3	kV

ITALIANA CONDUTTORI s.r.l.

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Date**09/10/2017****Responsible****Alberto Scardovi**

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Halogen free, low smoke emission coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A)

**Data Sheet****DG1230HW****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

Shield Transfer Impedance (Zt)

30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>85 dB

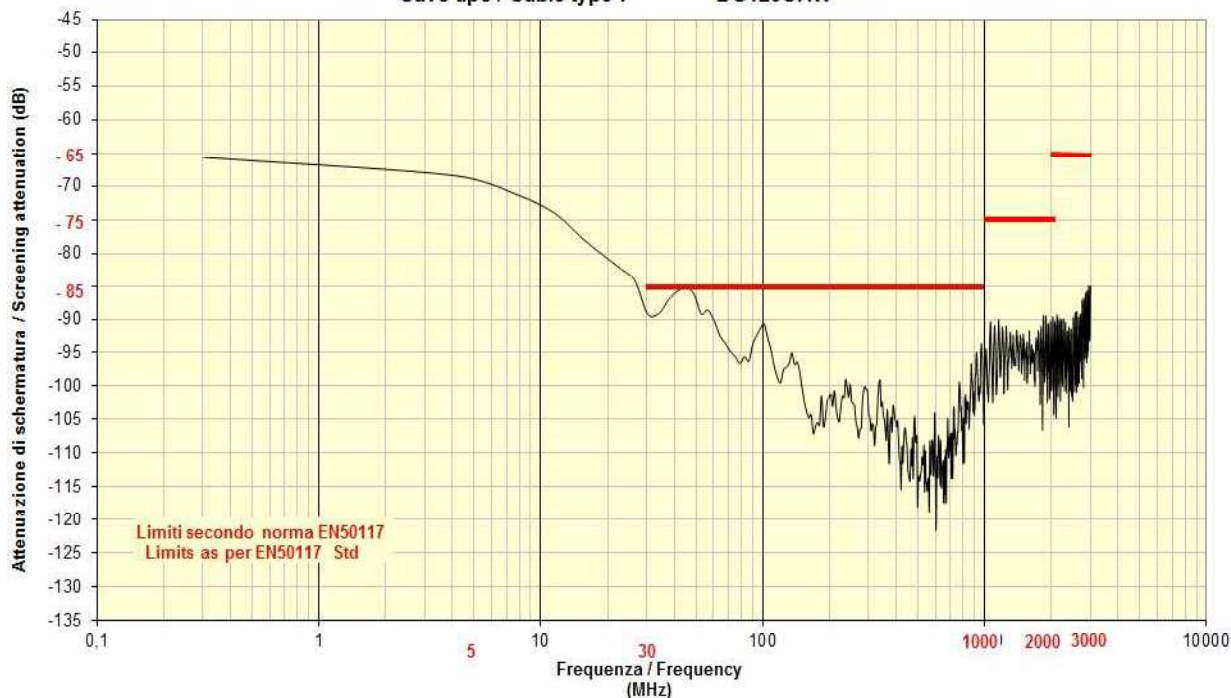
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Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,60	862	17,20
10	2,30	1000	18,60
30	3,20	1750	25,20
50	4,10	2150	28,10
200	8,00	2400	29,70
300	9,80	3000	33,70
470	12,50		

Attenuazione di schermatura / Screening Attenuation**Cavo classe A / A Class Cable**

Cavo tipo / Cable type : DG1230HW

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