

Description

Halogen free, low smoke emission coaxial cable - 75 Ohm

Indoor installation cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG1350HW



1,13 (Cu)	4,80 (PEG)	4,90 (Al/Pet/Al)	5,38 (Al)	6,70 (LSZH)
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Construction data

Inner conductor of plain copper	(Cu)	1,13 ± 0,02 mm
Dielectric of physical foam polyethylene	65 % (PEG)	4,80 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	18 x 12/15/12 µm
Braid of aluminium wires	(Al)	16 x 5 x 0,12 mm
Lay length of braid		54 mm
Braid optical coverage (IEC 96-1)		52 %
Diameter under Sheath		5,38 mm
Outer sheath of Thermoplastic material - white - halogen free and flame retardant	(LSZH)	6,70 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL DG 135 OHW MADE IN ITALY 75 Ohm EN50117-2-4 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 Ratio	85 %	
Inner conductor resistance	18	Ohm/km
Outer conductor resistance	34	Ohm/km
Loop resistance	52	Ohm/km
Insulation voltage of the sheath (spark test)	3	KV
Maximum current (Ieff)	8,00	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)

30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>75 dB
2000 - 3000 MHz	>65 dB

Transfer impedance

up to 5 - 30 MHz < 2,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

05/12/2013

Responsible

Alberto Scardovi

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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		

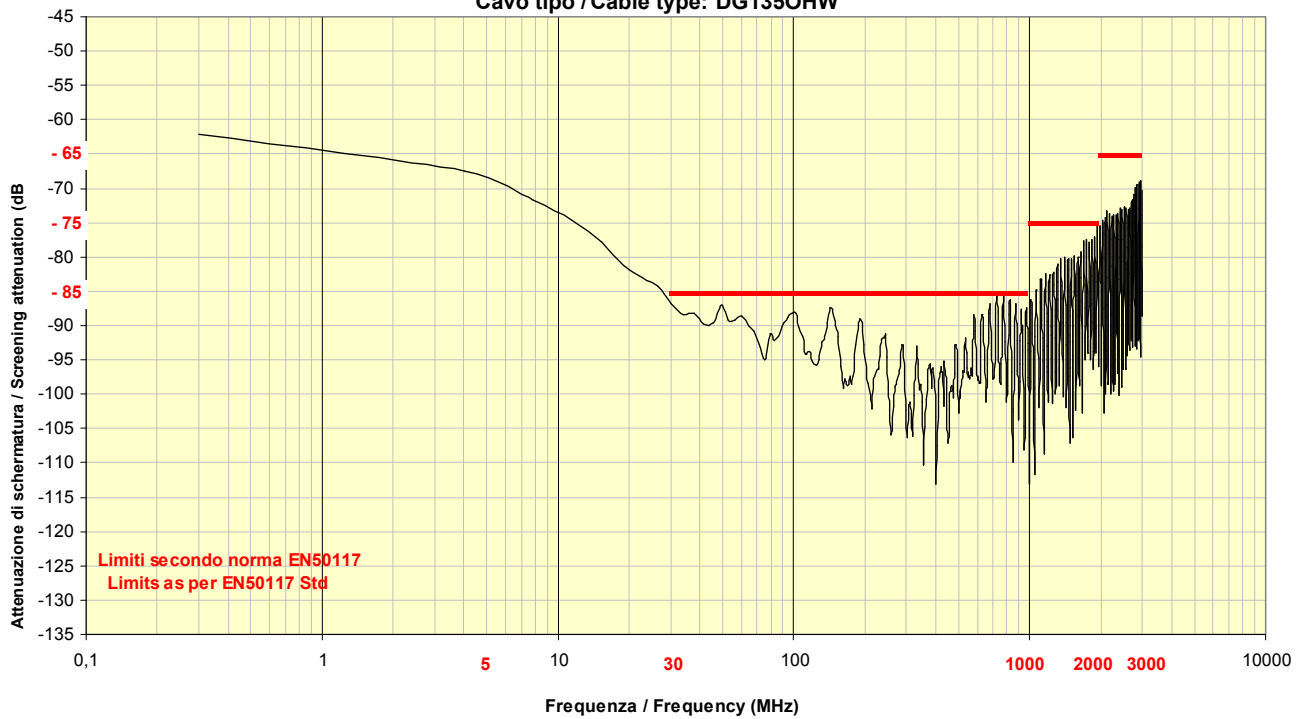
Mechanical data

Weight of copper conductors	8,85	kg/km
Total weight of cable	38,80	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Maximum pulling strength during the installation	150	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: DG1350HW



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