

**Description**

Halogen free, low smoke emission and UV resistant coaxial cable - 75 Ohm  
Outdoor installation cable (Screening Class A+)



**Data Sheet**

**DG113ZH**



1,13 (Cu)	4,80 (PEG)	4,90 (Al/Pet/Al)	5,30 (CuSn)	6,60 (LSZH)
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**Constructive data**

Inner conductor of plain copper	(Cu)	1,13 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 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)		72 %
Diameter under Sheath		5,30 mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant (Q8)	(LSZH)	6,60 ± 0,10 mm

Printed each meter by black ink-jet :

**CAVEL DG 113 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	13,90	Ohm/km
Loop resistance	31,90	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	>95 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>80 dB

**Transfer impedance**

5 - 30 MHz < 0,3 mOhm/m

**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

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,60	862	17,10
10	2,30	1000	18,50
30	3,20	1750	24,90
50	4,10	2150	27,90
200	8,00	2400	29,60
300	9,80	3000	33,40
470	12,40		

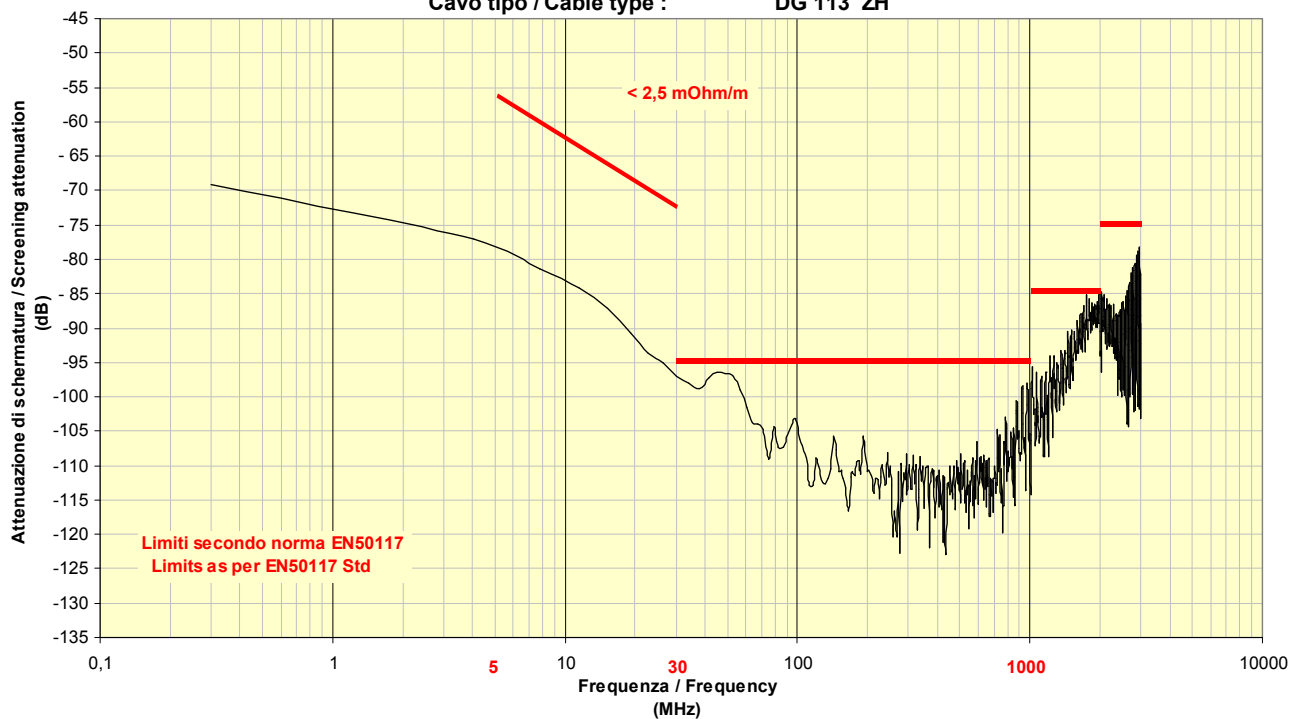
**Mechanical data**

Weight of copper conductors	19,20	kg/km
Total weight of cable	45,20	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Max. cable pulling strenght	150	N

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A+ / A+ Class Cable**

Cavo tipo / Cable type : DG 113 ZH



**Connector**

<b>FA703</b>	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
<b>F703</b>	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
<b>FC703</b>	F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm
<b>BNCC703</b>	BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm

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