

**Description**

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



**Data Sheet**

**DG163ZH**



1,63 (Cu)	7,20 (PEG)	7,37 (Al/Pet/Al/Sur)	7,85 (CuSn)	10,10 (LSZH)
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**Constructive data**

Inner conductor of plain copper	(Cu)	1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	(PEG)	7,20 ± 0,10	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		78 %	
Tracer Identifier	Year + Flag		mm
Diameter under Sheath		7,85	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant (Q8)	(LSZH)	10,10 ± 0,15	mm

Printed each meter by black ink-jet :

**CCS TV 75 Ohm CAVEL DG 163 ZH MADE IN ITALY EN50117-2-3 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m**

(ss=week, aa=year) (m=meter marking)

**Electrical data**

Characteristic impedance (@ 200 MHz)	75 ± 2	Ohm
Capacitance (@1kHz)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	7,50	Ohm/km
Loop resistance	16	Ohm/km
Insulation voltage of the sheath (spark test)	5	kV
Maximum current (I <sub>eff</sub> )	16,00	A

**Structural return loss (SRL)**

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>23 dB
2000 - 3000 MHz	>20 dB

**Screening attenuation (SA)**

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>80 dB

**Transfer impedance**

5 - 30 MHz < 0,25 mOhm/m

**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

**Date**

03/11/2008

**Responsible**

PierPaolo Piccinini

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Coaxial Cables

CAVEL®

since 1968

Data Sheet

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	12,30
10	1,50	1000	13,20
30	2,20	1750	17,90
50	2,80	2150	20,10
200	5,60	2400	21,60
300	6,90	3000	24,80
470	8,80		

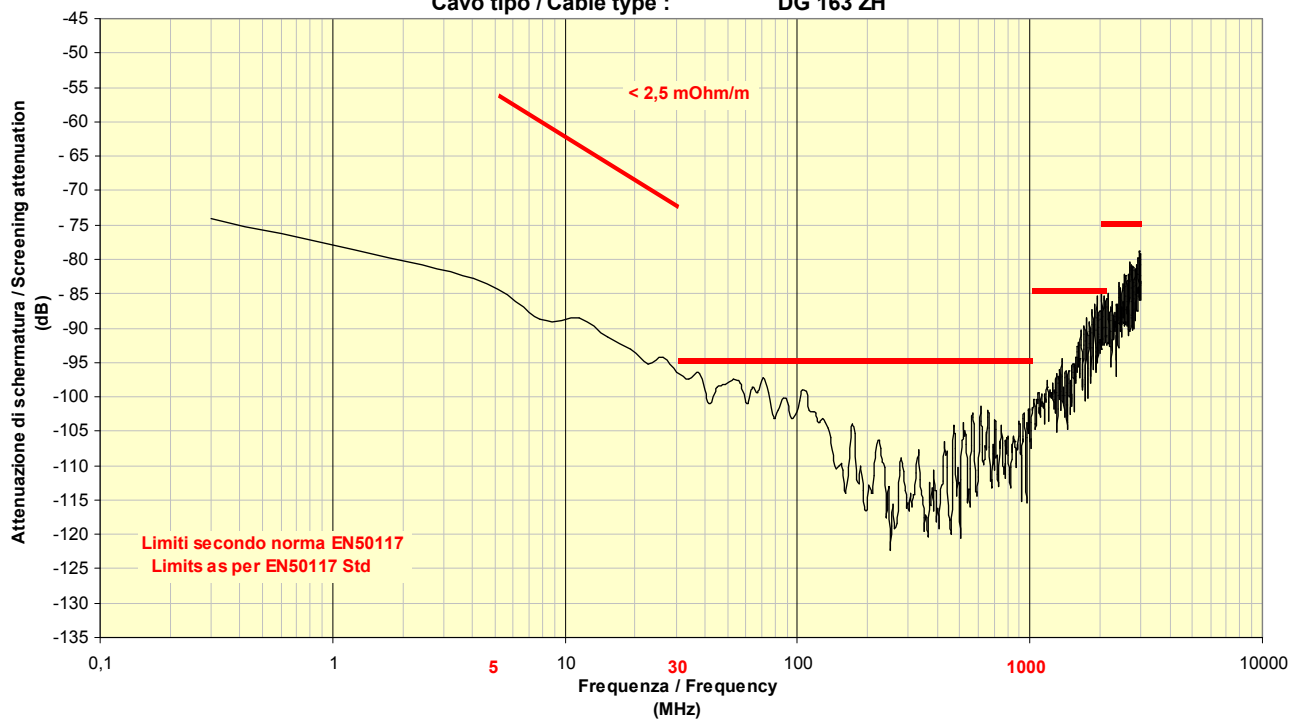
## Mechanical data

Weight of copper conductors	40,50	kg/km
Total weight of cable	102,00	kg/km
Minimum bending radius (single/repeated bending)	100	mm
Max. cable pulling strength	300	N

## Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type : DG 163 ZH



## Connector

<b>FA17/73</b>	F male twist-on connector for indoor installation, nitin-plated brass - 33,0 x 14,5 mm
<b>F163</b>	F male crimp connector for indoor installation, nitin-plated brass - 35,0 x 14,0 mm
<b>FC11</b>	F male compression connector for outdoor installation, nitin-plated brass - 45,0 x 16,0 mm
<b>FM-32</b>	F male connector for outdoor and underground installation, nitin-plated brass - 56,4 x 20,5 mm
<b>IEC14M-32</b>	IEC male connector for outdoor and underground installation, nitin-plated brass - 64,5 x 21,0 mm
<b>NM-32</b>	N male connector for outdoor and underground installation, nitin-plated brass - 62,5 x 21,0 mm
<b>5/8MU-32</b>	5/8" connector for outdoor and underground installation, nitin-plated brass - 69,0 x 20,5 mm
<b>3,5/12M-32</b>	3,5/12" connector for outdoor and underground installation, nitin-plated brass - 65,5 x 24,5 mm

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