

## Description

Outdoor drop coaxial cable with messenger rope - 75 Ohm  
 Outdoor cable for hung-up installation (Screening Class A+)

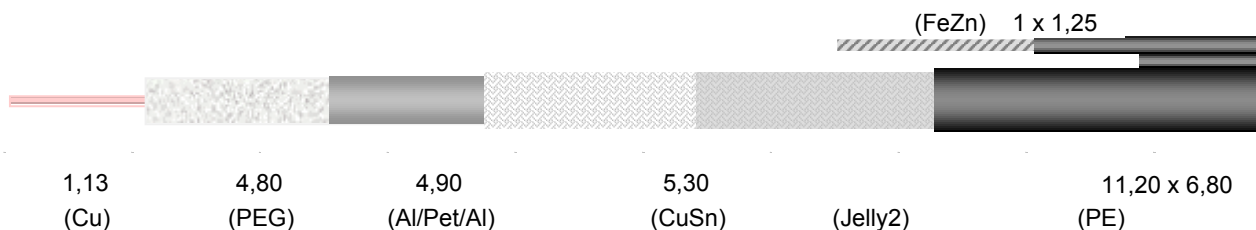
Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG113PEM



## 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 %	
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter under Sheath		5,30	mm
Outer sheath of Polyethylene black with carbonblack (Q4)	(PE)	6,80 ± 0,15	mm
Messenger rope of zinc-plated steel	(FeZn)	1 x 1,25	mm

Printed each meter by yellow ink-jet :

**CAVEL DG 113 PEM MADE IN ITALY 75 Ohm EN50117-2-5 ss/aa m**

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

Maximum breakage load 200 kg

## 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)	5	kV
Maximum current (I <sub>eff</sub> )	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		

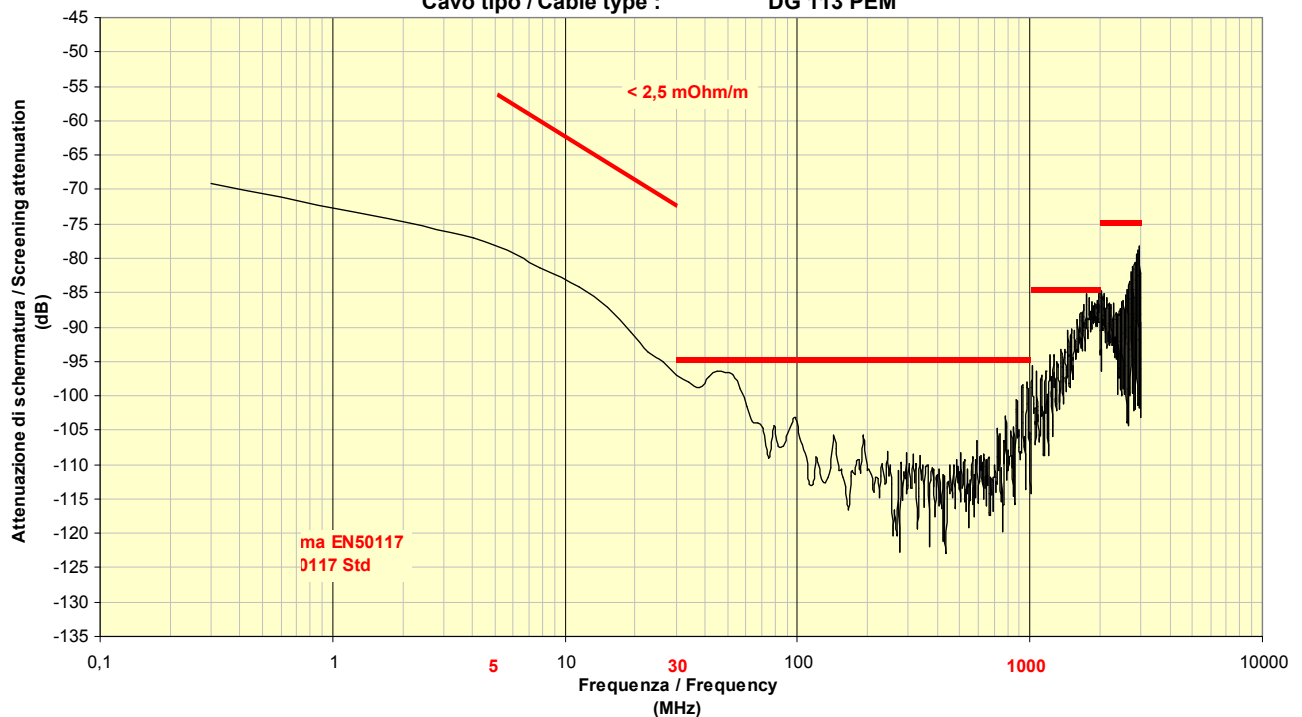
**Mechanical data**

Weight of copper conductors	19,20	kg/km
Total weight of cable	58,70	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Max. cable pulling strength	150	N
Maximum pulling strength during the installation	150	N

**Attenuazione di schermatura / Screening Attenuation**

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

Cavo tipo / Cable type : **DG 113 PEM**



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