

Description

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



Data Sheet

DG113PEM

					(FeZn) 1 x 1,25	
Ø	1,13	4,80	4,90	5,30		11,20 x 6,80
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(Jelly2)	(PE)

Class CPR acc. to UE 305/2011 (DoP)

F_{ca}

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 50117-2-5

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	(CuSn)		
Braid optical coverage (IEC 96-1)		72	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 5,30	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 11,20 x 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 Euroclass Fca EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V)
ULTRA HD / 4K gggan m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Messenger Maximum tensile strength	200	kg
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Physical data

Weight of copper conductors	19,20	kg/km
Total weight of cable	60,34	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Maximum tensile strength during the installation	150	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +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

ITALIANA CONDUTTORI s.r.l.

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Outer conductor resistance		13,90	Ohm/km
Loop resistance		31,90	Ohm/km
Sheat Insulation voltage (spark test)		5	kV
Maximum current (Ieff)		8	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)	SA-Class A+	Shield Transfer Impedance (Zt)	Zt-Class A
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 5 mΩ/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>75 dB		

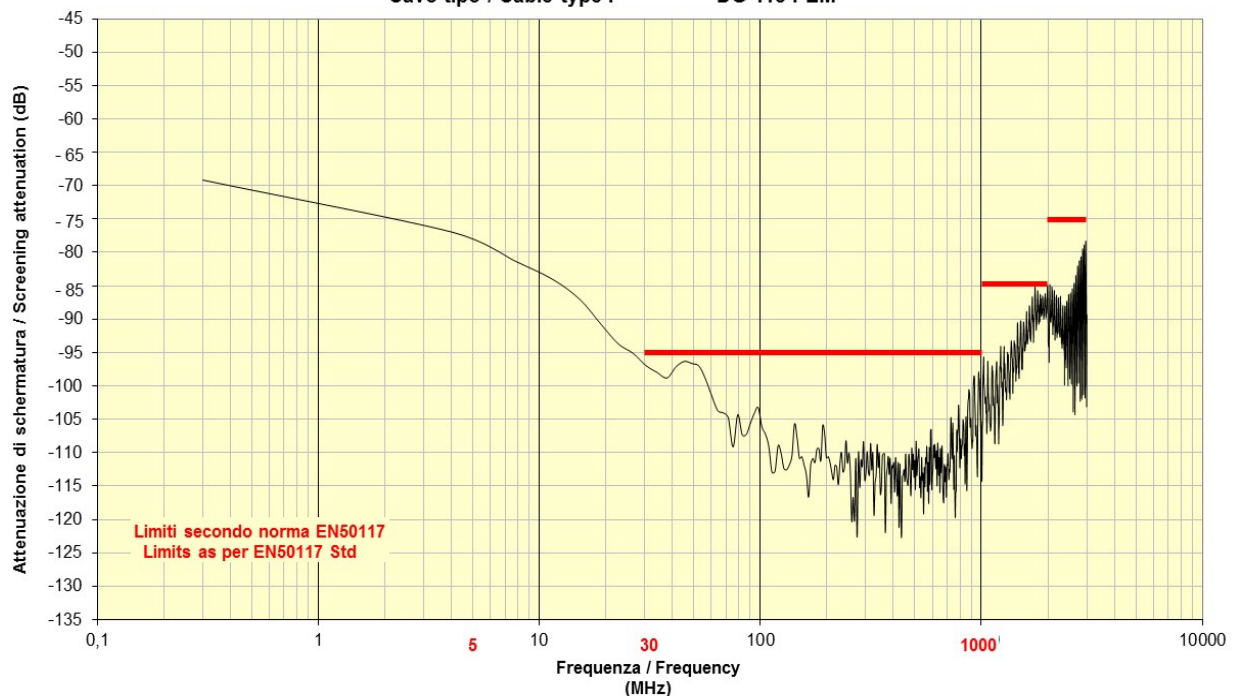
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

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



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**Data Sheet****DG113PEM****Connectors**

BNCC703	Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
FC7.0QM	Series F Compression, Quick Mount, for OUTDOOR installation
FC703	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FCEM7.0C	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass
FR703	Series F Crimp, F crimp, "Rapid", for INDOOR installation
IECF5.1C	Series IEC (toolless), female, no tool, for INDOOR installation
IECF703	Series IEC Compression, female, no tool, for OUTDOOR installation
IECM5.1C	Series IEC (toolless), male, no tool, for INDOOR installation
IECM703	Series IEC Compression, male, for OUTDOOR installation
F703	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
F90	Series F Crimp, F Crimp, for INDOOR installation
FA703	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm
IECF90C	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
IECM90C	Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation

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