

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm
Underground installation cable (Screening Class A+)



Data Sheet

DG163

Ø	1,63	7,20	7,37	7,85		10,10
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Jelly2)	(PE)

Standards

EN 50117-2-3

Construction data

Inner conductor of plain copper		(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	0,03	(PEG)	Ø 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		
Water repellent sealing (sheath)		(Jelly2)		
Diameter under Sheath			7,85	mm
Outer sheath of Polyethylene - black - with carbonblack		(PE)	Ø 10,10 ± 0,15	mm
Printed each meter by yellow ink-jet :				

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

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

Physical data

Weight of copper conductors			39,54	kg/km
Total weight of cable			91,74	kg/km
Minimum bending radius (single/repeated bending)			100	mm
Maximum cable pulling strength			300	N
Fire Load	2.144	MJ/km	596	kWh/km

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		7,50	Ohm/km
Loop resistance		16	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		16	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		

ITALIANA CONDUTTORI s.r.l.

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Screening Attenuation (SA)	SA-Class A+	Shield Transfer Impedance (Zt)	Zt-Class A
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 4 mOhm/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>85 dB		

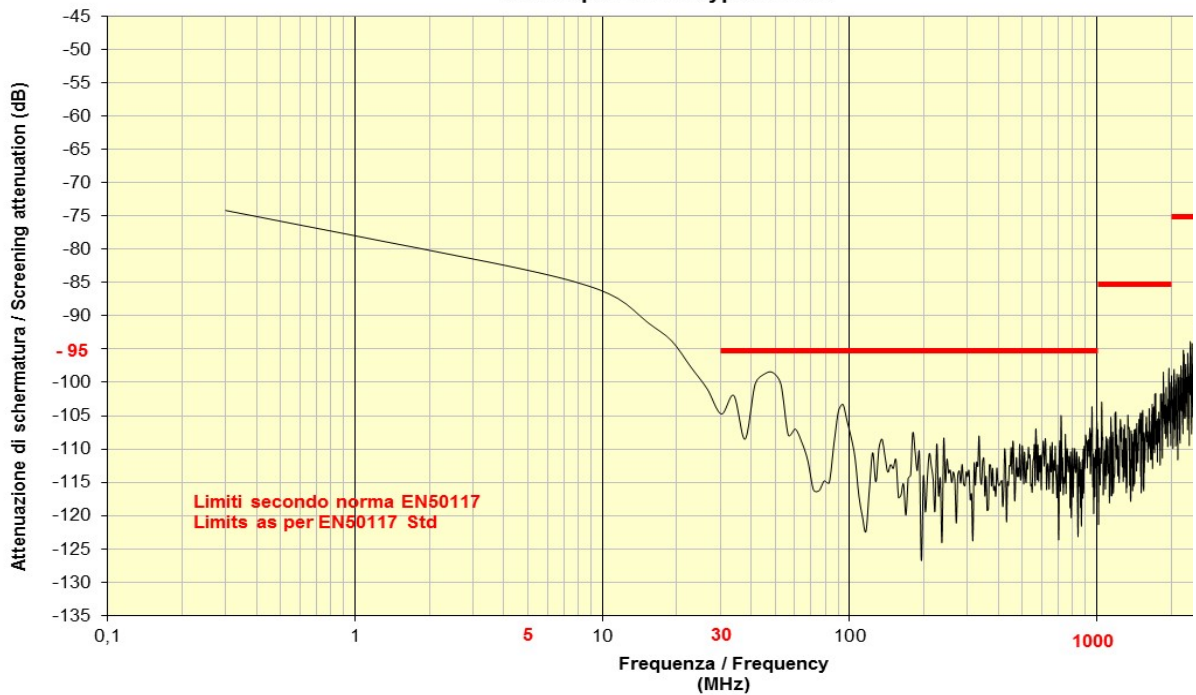
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type: DG163



Connectors

- F163** Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
- FA17/73** Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 33,0 mm x 14,5 mm
- FC11QM** Series F Compression, Quick Mount, for outdoor installation
- FM-32** Series F, male, for outdoor and underground installation, nitin-plated brass - 76,0 mm x 31,0 mm
- 3,5/12M-32** Serie 3,5/12", male, for outdoor and underground installation, nitin-plated brass - 65,5 mm x 24,5 mm
- IEC14M-32** Series IEC (no tool), male, for outdoor and underground installation, nitin-plated brass - 64,5 mm x 21,0 mm

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- NM-32** Serie N, male, for outdoor and underground installation, nitin-plated brass - 62,5 mm x 21,0 mm
- 5/8MU-32** Serie 5/8", male, for outdoor and underground installation, nitin-plated brass - 69,0 mm x 20,5 mm

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