

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	(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.

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

Date

29/02/2016

Responsible

Albero Scardovi

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable (Screening Class A+)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG163

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

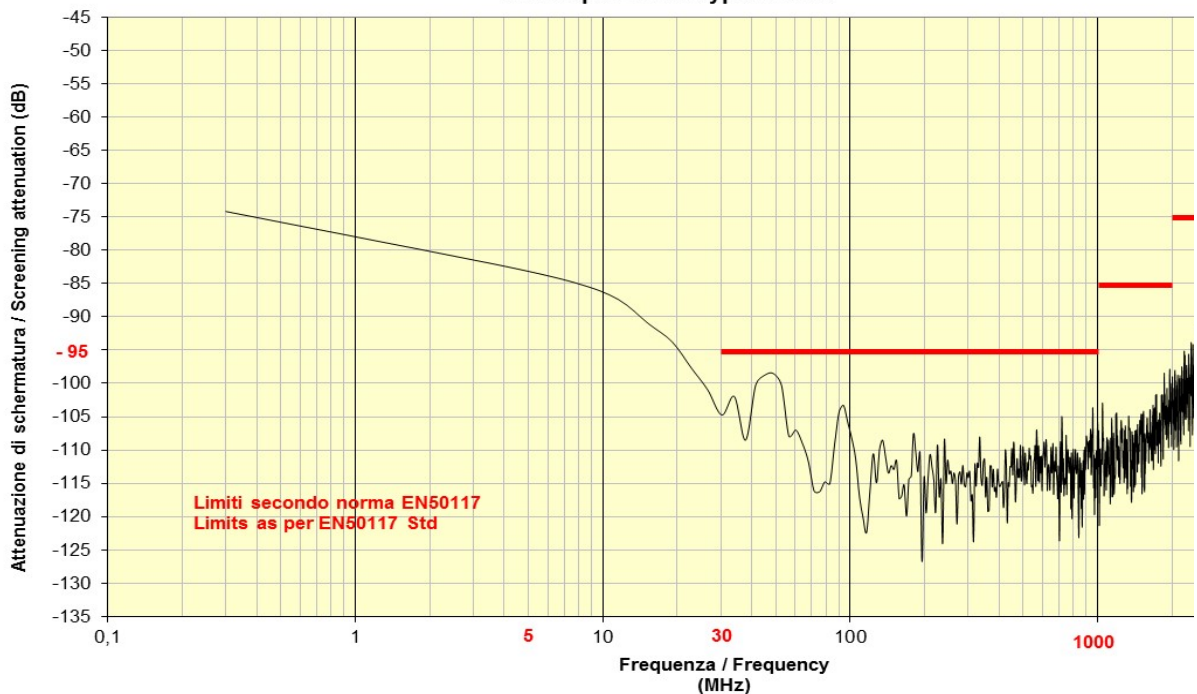
Attenuation (at 20°C)

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

ITALIANA CONDUTTORI s.r.l.

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

Date

29/02/2016

Responsible

Albero Scardovi

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable (Screening Class A+)

**Data Sheet****DG163****↑↑↑ Connectors**

- 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

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

29/02/2016

Responsible

Albero Scardovi