

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)

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

Fca

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 50117-2-3

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

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	%
Braid optical coverage (IEC 96-1) - External		75	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 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 Euroclass Fca EN50117-2-3 CEI-UNEL 36762 C-4 (U0 = 400V)**ULTRA HD / 4K gggaan m**

(ggg=day)(aa=year)(n=batch) (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
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	

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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 (I _{eff})	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

Screening Attenuation (SA)

SA-Class A+

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>85 dB

Shield Transfer Impedance (Zt)

Zt-Class A

5 - 30 MHz	< 4 mOhm/m
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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		

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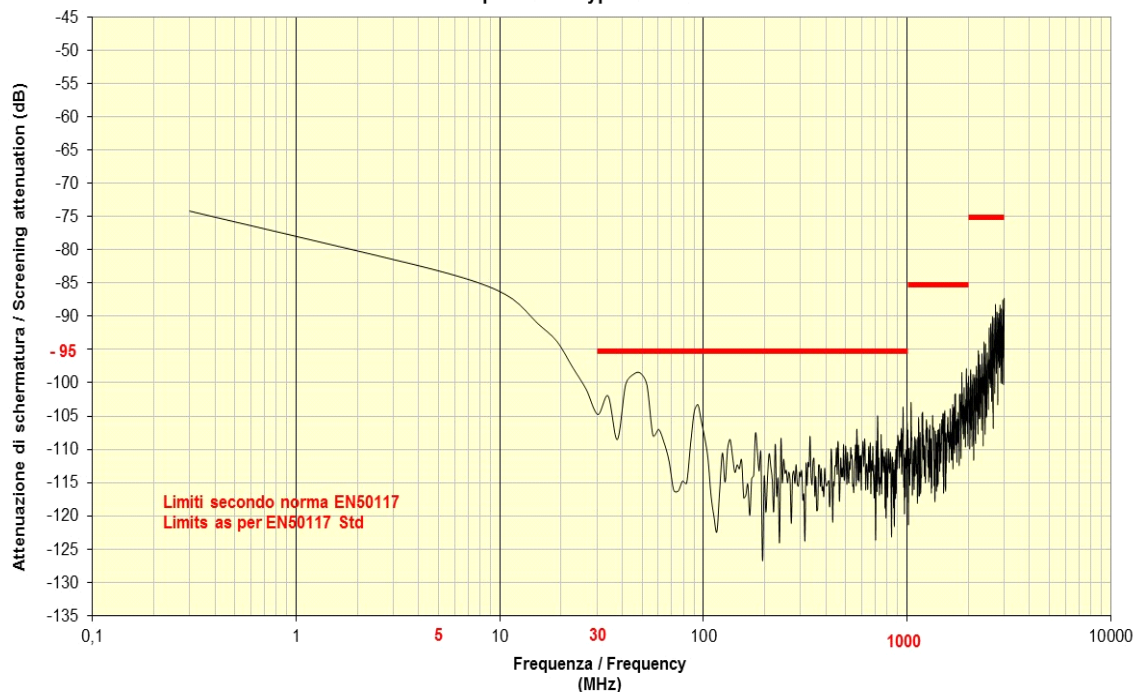
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DG163**Attenuazione di schermatura / Screening Attenuation****Cavo classe A+ / A+ Class Cable****Cavo tipo / Cable type: DG163****Connectors**

5/8MU-TL232	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 69,0 mm x 20,5 mm
F163	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm
FA17/73	Series 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-TL232	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-32	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 64,5 mm x 21,0 mm
NM-32	N Connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 62,5 mm x 21,0 mm
SR01-32	Adapter, for 11/50 - RG11, for UNDERGROUND (Hardline) installation

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