

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



| | | | | | | |
|---|------|-------|-----------------|--------|----------|-------|
| 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 |
| Aluminum/Polyester/Aluminum/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 |

ITALIANA CONDUTTORI s.r.l.

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

Date

12/05/2017

Responsible

PierPaolo Piccinini

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| | | | |
|---------------------------------------|--------|------|--------|
| 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 | | |

| | | | |
|----------------------------|-------------|-------------------------|------------|
| Screening Attenuation (SA) | SA-Class A+ | 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 | | |

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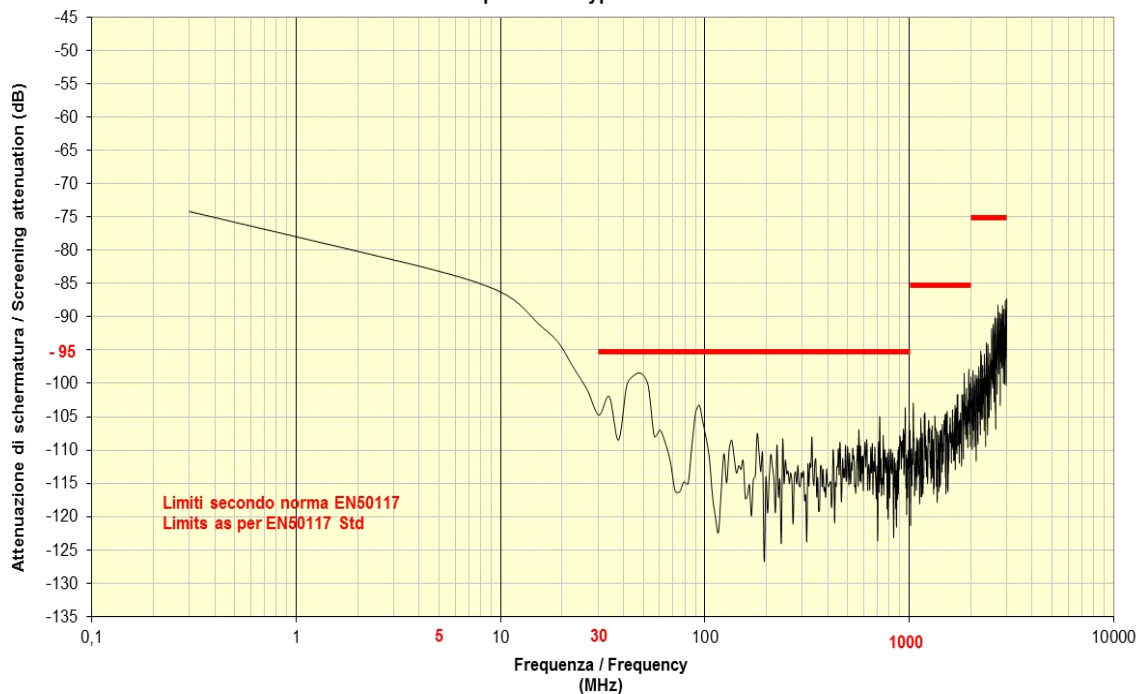
Data Sheet

DG163

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type: DG163



Connectors

- 3,5/12M-TL232** 3,5/12" connector, male, for UNDERGROUND (Hardline) installation -
- 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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