

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm

Underground installation cable

**Data Sheet****RG11FC**

| | | | | | | |
|---|--------|-------|-----------------|------|----------|-------|
| Ø | 1,63 | 7,20 | 7,37 | 8,01 | | 10,10 |
| | (FeCu) | (PEG) | (Al/Pet/Al/Sur) | (Al) | (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

Construction data

| | | | |
|---|-----------------|----------------|----|
| Inner conductor of copper clad steel | (FeCu) | 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 aluminium wires | (Al) | | |
| Braid optical coverage (IEC 96-1) | | 65 | % |
| Tracer Identifier | Year + Flag | | |
| Water repellent sealing (sheath) | (Jelly2) | | |
| Diameter over Braid | | Ø 8,01 | mm |
| Outer sheath of Polyethylene - black with two green bands - with carbonblack | (PE) | Ø 10,10 ± 0,15 | mm |

Printed each meter by yellow ink-jet :

CAVEL RG 11 FC MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-3 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

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

Physical data

| | | |
|--|-----------|-------|
| Total weight of cable | 73,74 | kg/km |
| Minimum bending radius (single/repeated bending) | 100 | mm |
| Maximum cable pulling strength | 800 | N |
| Minimum installation temperature | -5 | °C |
| Operating temperature | -40 / +80 | °C |

Electrical data

| | | |
|----------------------------|--------|--------|
| Characteristic impedance | 75 ± 2 | Ohm |
| Capacitance (@1kHz) | 53 ± 2 | pF/m |
| Velocity Ratio | 85 % | |
| Inner conductor resistance | 37,50 | Ohm/km |
| Outer conductor resistance | 11,50 | Ohm/km |
| Loop resistance | 49 | Ohm/km |

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Tel +39-382.815150 Fax +39-0382.814212

Date

12/05/2017

Responsible

Alberto Scardovi

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Coaxial Cables

CAVEL®

since 1968

Data Sheet

RG11FC

Sheat Insulation voltage (spark test)

8

kV

Maximum current (Ieff)

8

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

Shield Transfer Impedance (Zt)

Zt-Class B

30 - 1000 MHz >85 dB

5 - 30 MHz

< 15 mOhm/m

1000 - 2000 MHz >85 dB

2000 - 3000 MHz >85 dB

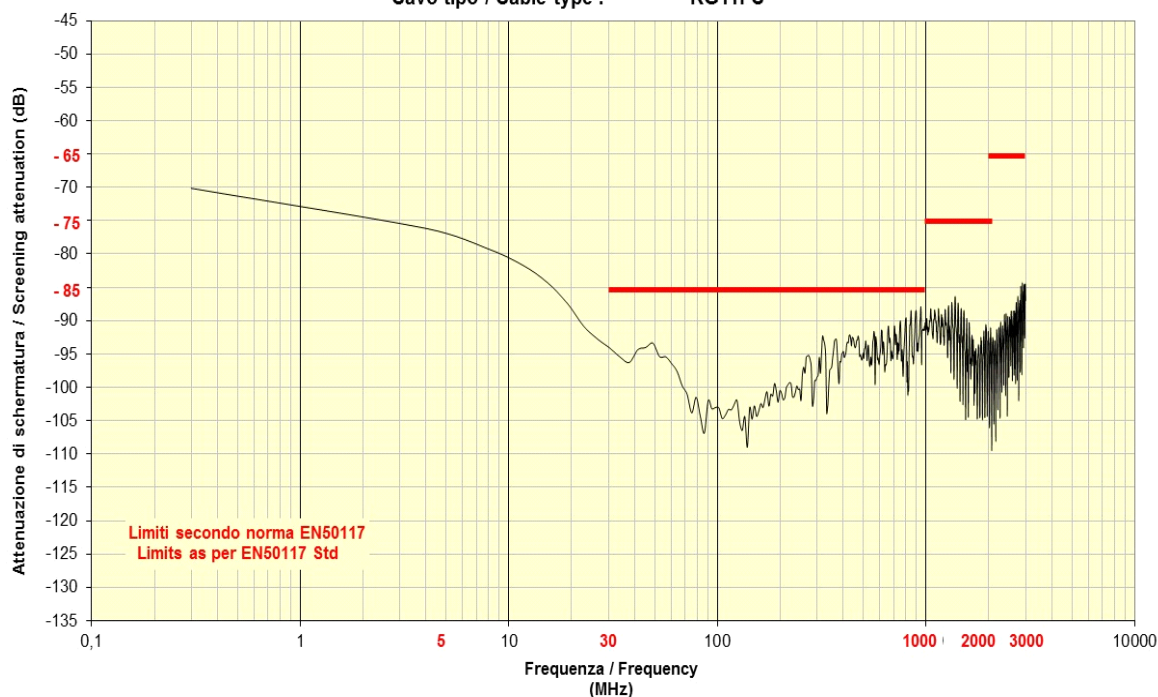
Attenuation (at 20°C)

| 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 | 18,50 |
| 50 | 2,80 | 2150 | 20,80 |
| 200 | 5,60 | 2400 | 22,20 |
| 300 | 6,90 | 3000 | 25,30 |
| 470 | 8,80 | | |

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : RG11FC

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**Data Sheet****RG11FC****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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