

## Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception (Screening Class A+)


Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG113



|   |      |       |             |        |       |
|---|------|-------|-------------|--------|-------|
| Ø | 1,13 | 4,80  | 4,90        | 5,30   | 6,60  |
|   | (Cu) | (PEG) | (Al/Pet/Al) | (CuSn) | (PVC) |

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

E<sub>ca</sub>

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 50117-2-4

## Fire-Resistance Rating

EN50575

## Construction data

|  |             |               |    |
|--|-------------|---------------|----|
| Inner conductor of plain copper                              | (Cu)        | Ø 1,13 ± 0,02 | mm |
| Dielectric of physical foam polyethylene                     | (PEG)       | Ø 4,80 ± 0,10 | mm |
| Aluminium/Polyester/Aluminium tape longitudinally overlapped | (Al/Pet/Al) |               |    |
| Water repellent sealing (dielectric)                         | (Jelly1)    |               |    |
| Braid of tinned copper wires                                 | (CuSn)      |               |    |
| Braid optical coverage (IEC 96-1)                            |             | 72            | %  |
| Diameter over Braid  |             | Ø 5,30        | mm |
| Outer sheath of Polyvinylchloride - white (PVC) - lead-free  | (PVC)       | Ø 6,60 ± 0,10 | mm |

Printed each meter by blue ink-jet :

**CAVEL DG 113 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 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                      | 19,20     | kg/km |
| Total weight of cable                            | 43,38     | kg/km |
| Minimum bending radius (single/repeated bending) | 35/70     | mm    |
| Maximum cable pulling strength                   | 150       | N     |
| Minimum installation temperature                 | -5        | °C    |
| Operating temperature                            | -40 / +80 | °C    |

## Electrical data

|                                       |         |        |        |
|---------------------------------------|---------|--------|--------|
| Characteristic impedance              | 200 MHz | 75 ± 3 | Ohm    |
| Capacitance (@1kHz)                   |         | 52 ± 2 | pF/m   |
| Velocity Ratio                        |         | 85 %   |        |
| Inner conductor resistance            |         | 18     | Ohm/km |
| Outer conductor resistance            |         | 13,90  | Ohm/km |
| Loop resistance                       |         | 31,90  | Ohm/km |
| Sheat Insulation voltage (spark test) |         | 3      | kV     |

## ITALIANA CONDUTTORI s.r.l.

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 Tel +39-382.815150 Fax +39-0382.814212

Date

14/11/2017

Responsible

PierPaolo Piccinini

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Maximum current (Ieff) 8 A

Structural return loss (SRL)

|                 |        |
|-----------------|--------|
| 5 - 470 MHz     | >30 dB |
| 470 - 1000 MHz  | >28 dB |
| 1000 - 2000 MHz | >26 dB |
| 2000 - 3000 MHz | >22 dB |

Screening Attenuation (SA)

SA-Class A+

Shield Transfer Impedance (Zt)

Zt-Class A

|                 |        |
|-----------------|--------|
| 30 - 1000 MHz   | >95 dB |
| 1000 - 2000 MHz | >85 dB |
| 2000 - 3000 MHz | >75 dB |

5 - 30 MHz

< 5 mOhm/m

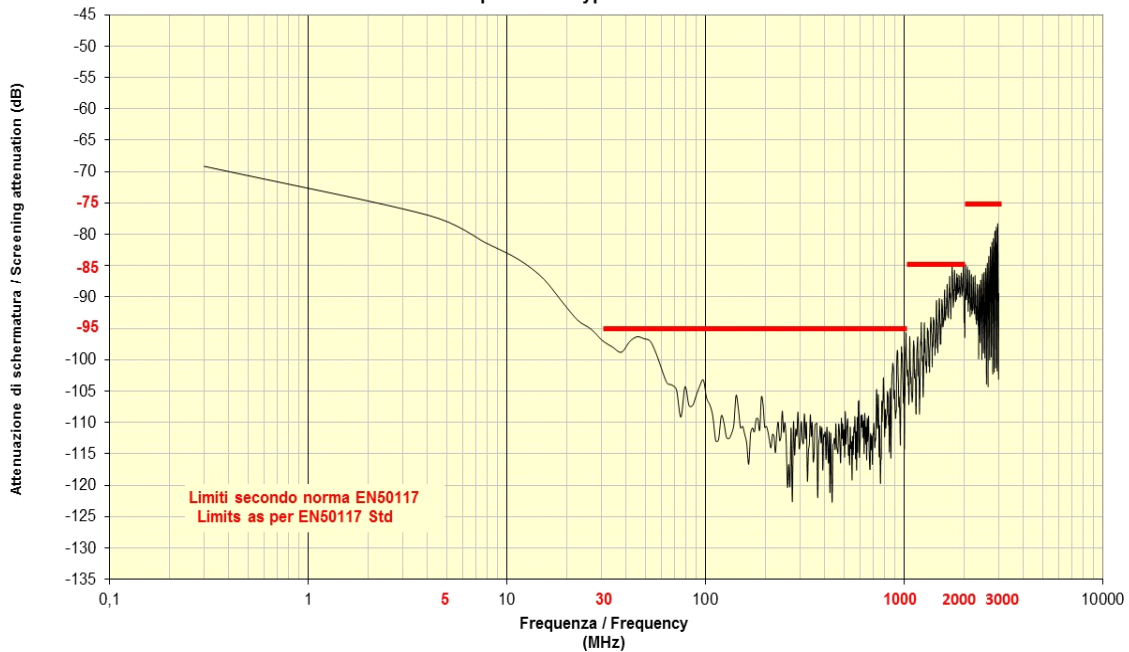
Attenuation (at 20°C )

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 5               | 1,60                  | 862             | 17,10                 |
| 10              | 2,30                  | 1000            | 18,50                 |
| 30              | 3,20                  | 1750            | 24,90                 |
| 50              | 4,10                  | 2150            | 27,90                 |
| 200             | 8,00                  | 2400            | 29,60                 |
| 300             | 9,80                  | 3000            | 33,40                 |
| 470             | 12,40                 |                 |                       |

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type : DG 113



**Connectors**

**BNCC703**

Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm

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|                 |   |
|-----------------|---|
| <b>F703</b>     | Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm              |
| <b>F90</b>      | Series F Crimp, F Crimp, for INDOOR installation  |
| <b>FA703</b>    | Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm        |
| <b>FC7.0QM</b>  | Series F Compression, Quick Mount, for OUTDOOR installation   |
| <b>FC703</b>    | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm |
| <b>FCEM7.0C</b> | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass                     |
| <b>FCPO5.1C</b> | Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass                     |
| <b>FR703</b>    | Series F Crimp, F crimp, "Rapid", for INDOOR installation   |
| <b>IECF5.1C</b> | Series IEC (toolless), female, no tool, for INDOOR installation                                       |
| <b>IECF90C</b>  | Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation                                      |
| <b>IECF703</b>  | Series IEC Compression, female, no tool, for OUTDOOR installation                                     |
| <b>IECM5.1C</b> | Series IEC (toolless), male, no tool, for INDOOR installation   |
| <b>IECM90C</b>  | Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation  |
| <b>IECMC703</b> | Series IEC Compression, male, for OUTDOOR installation  |

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