

Description

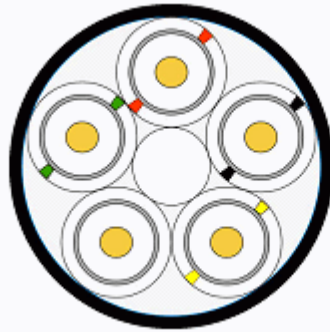
Multicore Caxial Cable
SMATV 1st IF Distribution

Coaxial Cables

CAVEL

since 1968

Data Sheet

5XDG80M**Standards**

EN 50117-2-5

Construction data

Polyester film spirally wrapped (Pet)

Attached Data Sheet**Sheath Colour**

DG80

white (PVC)
white with two yellow bands (RAL 1021)
white with two black bands (PVC)
white with two red bands (RAL 3000)
white with two green bands (RAL 6018)

| | | | |
|---|-------------|----------------|----|
| Central Filler | (PVC) white | Ø 3,50 | mm |
| Outer sheath of Thermoplastic material - black - halogen free and flame retardant | (LSZH) | Ø 15,00 ± 0,25 | mm |
| Zinc-plated steel rip cord | (FeZn) | Ø 0,40 | mm |

Printed each meter by yellow ink-jet :

**CAVEL 5 x DG 80 M MADE IN ITALY 75 Ohm EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K
ss/aa - m**

(ss=week, aa=year) (m=meter marking)

Physical data

| | | |
|----------------------------------|-----------|-------|
| Weight of copper conductors | 56,02 | kg/km |
| Total weight of cable | 202,42 | kg/km |
| Minimum installation temperature | -5 | °C |
| Operating temperature | -25 / +80 | °C |

Connectors

| | |
|-----------------|---|
| BNCC3.9C | Series BNC Compression, BNC Compression, for OUTDOOR installation |
| BNCC501 | Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm |
| F501 | Series F Crimp, Crimp F-59-ALM 3.9/6.4, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm |
| FA501 | Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm |
| FC5.0QMS | Series F Compression, Short Quick Mount, for OUTDOOR installation |
| FC501 | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm |
| FCEM5.0C | Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass |

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

Date

23/03/2017

Responsible

Giuseppe Guastella

Description

Multicore Caxial Cable
SMATV 1st IF Distribution

**Data Sheet****5XDG80M****↑↑↑ Connectors**

- FCPO3.9C** Series F Compression, Ø 3,9 Push-On, for OUTDOOR installation, nitin-plated brass
IECF905C Series IEC (toolless), Ø 3,9 90° female, for INDOOR installation
IECM905C Series IEC (toolless), Ø 3,9 90° male, for INDOOR installation

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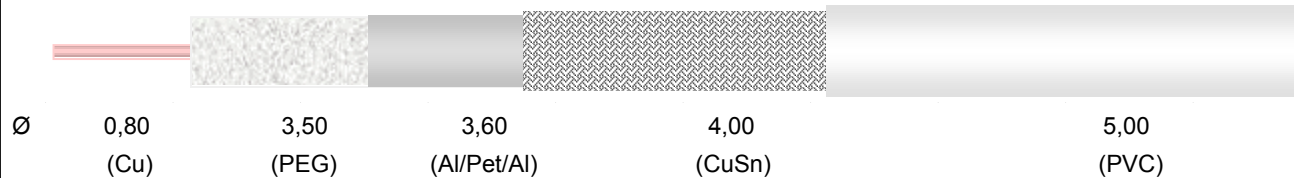
Description

Indoor drop coaxial cable for digital reception - 75 Ohm
Cable for digital reception (Screening Attenuation Class A)



Data Sheet

DG80
5XDG80M



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

E_{ca}

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

Construction data

| | | | |
|--|-------------|---------------|----|
| Inner conductor of plain copper | (Cu) | Ø 0,80 ± 0,02 | mm |
| Dielectric of physical foam polyethylene | (PEG) | Ø 3,50 ± 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) | | 65 | % |
| Outer sheath of Polyvinylchloride - white (PVC) - lead-free | (PVC) | Ø 5,00 ± 0,10 | mm |

Printed each meter by blue ink-jet :

**CAVEL DG 80 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA
HD / 4K gggaan m**

(gggaan=batch number m=meter marking)

Physical data

| | | |
|--|-----------|-------|
| Weight of copper conductors | 11,13 | kg/km |
| Total weight of cable | 25,73 | kg/km |
| Minimum bending radius (single/repeated bending) | 25/50 | mm |
| Maximum cable pulling strength | 90 | 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 | | 35 | Ohm/km |
| Outer conductor resistance | | 18,60 | Ohm/km |
| Loop resistance | | 53,60 | Ohm/km |
| Sheat Insulation voltage (spark test) | | 2,50 | kV |
| Maximum current (I _{eff}) | | 4 | A |
| Structural return loss (SRL) | 5 - 470 MHz | >30 dB | |

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Responsible

PierPaolo Piccinini

Description

Indoor drop coaxial cable for digital reception - 75 Ohm
 Cable for digital reception (Screening Attenuation Class A)



Data Sheet

DG80
5XDG80M

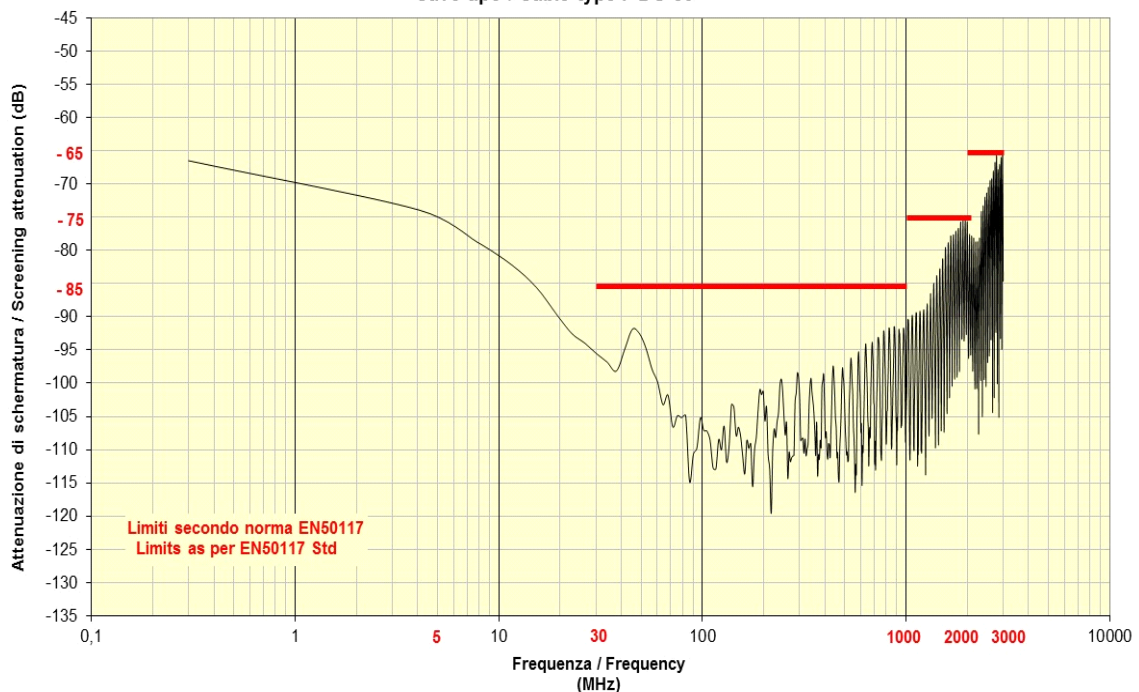
| | |
|-----------------|--------|
| 470 - 1000 MHz | >28 dB |
| 1000 - 2000 MHz | >26 dB |
| 2000 - 3000 MHz | >22 dB |

| | | | |
|----------------------------|------------|--------------------------------|------------|
| Screening Attenuation (SA) | SA-Class A | Shield Transfer Impedance (Zt) | Zt-Class B |
| 30 - 1000 MHz | >90 dB | 5 - 30 MHz | < 9 mOhm/m |
| 1000 - 2000 MHz | >75 dB | | |
| 2000 - 3000 MHz | >65 dB | | |

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DG 80



Connectors

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