

**Description**

Indoor drop coaxial cable - 75 Ohm

Indoor installation cable (Screening Class B)

Coaxial Cables

**CAVEL®**

since 1968

**Data Sheet****KF114**

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

**Standards**

EN 50117-2-4

**Construction data**

|                                                             |          |                |
|-------------------------------------------------------------|----------|----------------|
| Inner conductor of plain copper                             | (Cu)     | 1,13 ± 0,02 mm |
| Dielectric of physical foam polyethylene                    | (PEG)    | 4,80 ± 0,10 mm |
| Water repellent sealing (dielectric)                        | (Jelly1) |                |
| Copper/Polyester tape longitudinally overlapped             | (Cu/Pet) |                |
| Braid of annealed copper wires                              | (Cu)     |                |
| Braid optical coverage (IEC 96-1)                           |          | 37 %           |
| Diameter under Sheath                                       |          | 5,30 mm        |
| Outer sheath of Polyvinylchloride - white (PVC) - lead-free | (PVC)    | 6,60 ± 0,10 mm |

Printed each meter by blue ink-jet :

**CAVEL KF 114 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m**

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

**Physical data**

|                                                  |           |             |
|--------------------------------------------------|-----------|-------------|
| Weight of copper conductors                      |           | 16,59 kg/km |
| Total weight of cable                            |           | 40,42 kg/km |
| Minimum bending radius (single/repeated bending) |           | 35/70 mm    |
| Maximum cable pulling strength                   |           | 150 N       |
| Fire Load                                        | 615 MJ/km | 171 kWh/km  |

**ITALIANA CONDUTTORI s.r.l.**

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Date

**27/02/2012**

Responsible

**PierPaolo Piccinini**

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**Data Sheet****KF114****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                    |         | 22     | Ohm/km |
| Loop resistance                               |         | 40     | Ohm/km |
| Insulation voltage of the sheath (spark test) |         | 3      | kV     |
| Maximum current (I <sub>eff</sub> )           |         | 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)**

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

**Transfer impedance**

5 - 30 MHz &lt; 15 mΩ/m

**Attenuation (at 20°C )**

| Frequency<br>[MHz] | Attenuation<br>[dB/100m] | Frequency<br>[MHz] | Attenuation<br>[dB/100m] |
|--------------------|--------------------------|--------------------|--------------------------|
| 5                  | 1,40                     | 862                | 16,50                    |
| 10                 | 2,00                     | 1000               | 17,80                    |
| 30                 | 3,00                     | 1750               | 24,20                    |
| 50                 | 3,70                     | 2150               | 27,10                    |
| 200                | 7,80                     | 2400               | 28,80                    |
| 300                | 9,60                     | 3000               | 32,60                    |
| 470                | 11,90                    |                    |                          |

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**Description**

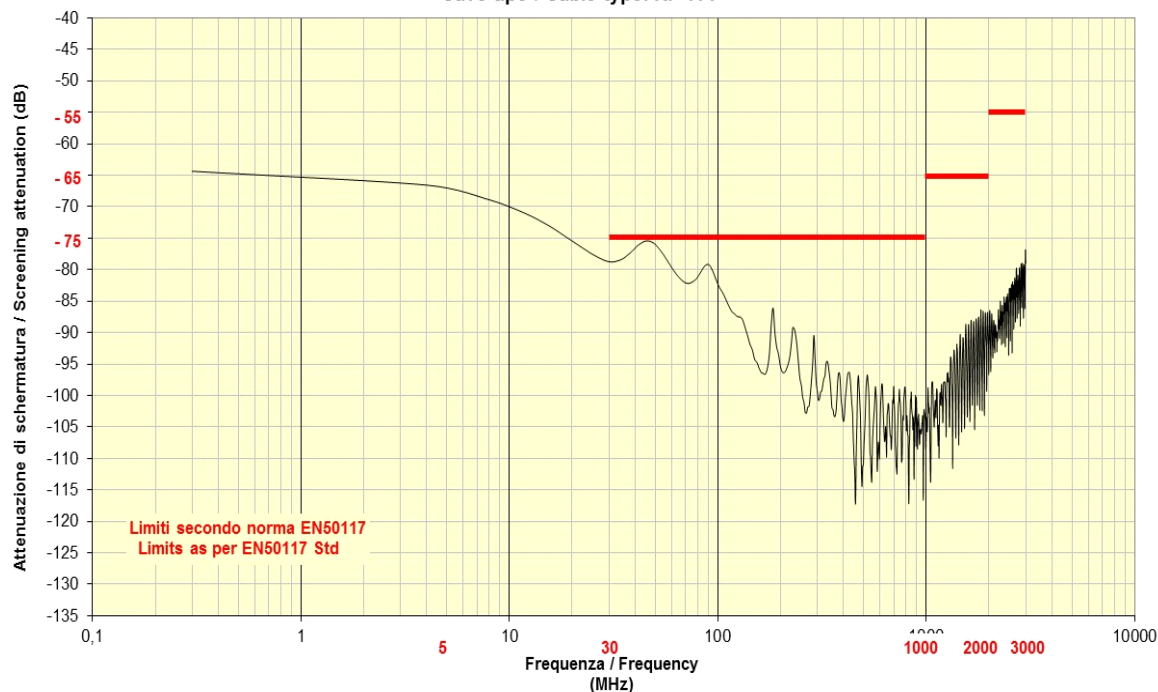
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**Data Sheet****KF114****Attenuazione di schermatura / Screening Attenuation****Cavo classe B / B Class Cable****Cavo tipo / Cable type: KF 114****Connector**

|                 |                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| <b>FA703</b>    | Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm             |
| <b>F703</b>     | Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm                  |
| <b>IECF5.1C</b> | Series IEC (no tool), female, no tool, for indoor installation                                            |
| <b>IECM5.1C</b> | Series IEC (no tool), male, no tool, for indoor installation                                              |
| <b>IECF90C</b>  | Series IEC (no tool), Ø 5,1 90° female, for indoor installation                                           |
| <b>IECM90C</b>  | Series IEC (no tool), Ø 5,1 90° male, for indoor installation                                             |
| <b>FCPO5.1C</b> | Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass                         |
| <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>IECF703</b>  | Serie IEC Compression, female, no tool, for outdoor installation                                          |
| <b>IECM703</b>  | Serie IEC Compression, male, for outdoor installation                                                     |
| <b>BNCC703</b>  | Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm |

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