

Tuesday 4 October 2011

Due Fili video door entry system cables: specifications and types of use

Art.732H/xx (cable with BLUE outer sheath)

- Cable for wiring audio and video door entry systems in Two-Wire installations
- PVC sheath, comprises two 1 mm² twisted conductors in 50, 100, 500 m roll
- Conforms to the requirements of CEI EN60332-3-25 CE

Use:

Suitable for fixed internal installation on masonry and metal structures by routing in cable trays, raceways or tubing.

The cable is NOT suitable for installation in underground conduits.

It is recommended to lay the cable at a minimum distance of at least 0.3 m from power cables.

Specifications:

- Measurement indicator with metric progression printed on the sheath
- Operating voltage $\leq 50\text{Vdc} - 75\text{Vac}$
- External diameter max 6.5 mm
- Operating temperature $-25^{\circ}\text{C} / +70^{\circ}\text{C}$
- Short-circuit temperature 160°C
- Rated insulation voltage 450/750 V
- Attenuation ≤ 5 dB at 10 MHz (data relative to 100m of cable)
- Electrical resistance 19.5 Ohm/Km
- Low halogen emission $\leq 22\%$
- Bend radius 5 times the cable diameter
- Fire retardant
- Maximum tensile strength 50N/mm²

Article specifications:

- art. 732H/50: supplied in 50 m roll
- art. 732H/100: supplied in 100 m roll
- art. 732H/500: supplied in 500 m roll



Art.732I/xx (cable with GREEN outer sheath)

- Cable for wiring audio and video door entry systems in Two-Wire installations
- Sheath and insulation in non-toxic LSZH thermoplastic, comprises two 1mm² twisted conductors, in 100 and 500 m roll
- Conforms to the requirements of CEI EN 60332-3-25 CEI EN 50267-2-1/2

(The use of LSZH sheathing is mandatory for the creation of installations in rooms in which legislation requires extremely low smoke emissions and zero halogen emission in case of fire.)

Use:

Suitable for fixed internal installation on masonry and metal structures by routing in cable trays, raceways or tubing, where required by relevant legislation governing rooms with crowding rating.

Suitable for underground installation in dry tubing or with drainage capability (maximum time in wet environment: 24 hours).

The cable must NOT be buried directly.

It is recommended to lay the cable at a minimum distance of at least 0.3 m from power cables.

Specifications:

- Measurement indicator with metric progression printed on the sheath
- Operating voltage ≤ 50Vdc - 75Vac
- External diameter 7.6 mm
- Operating temperature - 25°C / + 70°C
- Short-circuit temperature 160°C
- Rated insulation voltage 600/1000 V
- Attenuation ≤ 5 dB at 10 MHz (data relative to 100m of cable)
- Electrical resistance 19.5 Ohm/Km
- Does not emit halogens in case of fire
- Low smoke emission in case of fire
- Bend radius 6 times the nominal diameter
- Fire retardant
- Maximum tensile strength 50N/mm²

Article specifications:

- art. 732I/100: supplied in 100 m roll
- art. 732I/500: supplied in 500 m roll



Modes of use summary table

| Posa \ Passaggio | Cavo libero | In canalina | In tubazione | In passerella |
|-------------------------------|-------------|-------------|--------------|---------------|
| | Interrato | - | - | 732I # |
| Muro sottotraccia | - | - | 732H | - |
| | | | 732I * | |
| Fissaggio a muro | - | 732H | 732H | 732H |
| | | 732I * | 732I * | 732I * |
| Interno a struttura metallica | - | - | 732H | - |
| | | | 732I * | |

* = Where required by legislation on rooms with occupancy rating (CEI EN 60332-3-25 CEI EN 50267-2-1/2)

= Suitable for underground installation in dry tubing or with drainage capability (maximum time in wet environment: 24 hours)

Please also be reminded that with Elvox cables **art. 732I/xx** and **art. 732H/xx** it is possible to realise **Due Fili installations with sections up to 300 m in both B/W and colour.**