



E_{ca}

Nexans Ref.: 10564777
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FIRE PERFORMANCE CLASS



E_{ca}



CONTACT

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H07V-U Eca is an installation wire in a handy VOBbox / VDbox. H07V-U Eca is a solid PVC installation wire intended for protected fixed domestic and industrial installations. Installation may be in pipes or gutters embedded in the wall or floor or surface mounted. H07V-U Eca has a very low friction factor which makes it easy to slide and pull into pipes. In addition, H07V-U Eca is **easy to strip**, making it quick to process. **The box of the VOBbox has the same color as the wire in it.** The section is also clearly legible on all sides. This ensures that you have the right wire in place immediately. The cardboard of the VOBbox-VDbox is also **extra moisture-resistant**, ideal for damp construction sites. Furthermore, the box is designed to keep spiral formation to a minimum. This further **facilitates the wire pulling and makes it even easier to work with.** H07V-U Eca meets fire class Eca according to EN 50575.

STANDARDS

Product EN 50525-2-31; IEC 60228

APPLICATION

The colored box packaging **VOBbox (VDbox in The Netherlands)** is made of special strong moisture resistant cardboard. Easy to use in humid conditions or in bad weather. The **VOBbox** is available in different colors, with the color of the box corresponding to the color of the wire inside.

H07V-U Eca is an installation wire according to fire classification Eca for use indoor in residential and similar installations with a low fire hazard level. They have a low friction coefficient and are suitable for fixed installation in tubes or skirting-board systems.

DESIGN

- Conductor: Bare copper, solid, class 1
- Insulation: Special PVC, with enhanced sliding properties
- Section: 1.5 mm² and 2.5 mm²
- Packaging: 100m in the VOBbox (VDbox), a moisture-proof cardboard with color recognition
- Available colours: Green/yellow, brown, blue, black, grey, red, orange and black-white



Conductor flexibility
Solid class 1



Halogen free
No



Rated Voltage U_o/U_i
(Um)
450/750 V



Bending factor
when laying
4 (xD)



Max. conductor
temp. in service
70 °C



Operating temp.
-15 ... 70 °C



Chemical
resistance
Medium



Minimum
installation
temperature
5 °C

CHARACTERISTICS

Construction characteristics

| | |
|-----------------------|----------------|
| Conductor material | Copper |
| Conductor shape | Round, massive |
| Conductor flexibility | Solid class 1 |
| Insulation | PVC |
| Wire colour | Black |
| Halogen free | No |

Dimensional characteristics

| | |
|------------------------------|---------------------|
| Number of cores | 1 |
| Conductor cross-section | 2.5 mm ² |
| Average insulation thickness | 0.8 mm |
| Nominal outer diameter | 3.4 mm |
| Approximate weight | 30 kg/km |

Electrical characteristics

| | |
|---|-------------|
| Rated Voltage U ₀ /U (U _m) | 450/750 V |
| Permissible current rating in open air | 24 A |
| Voltage drop, single phase | 24.2 V/A.km |

Usage characteristics

| | |
|---------------------------------------|---------------|
| Bending factor when laying | 4 (xD) |
| Field of application | Indoor |
| Max. conductor temperature in service | 70 °C |
| Operating temperature, range | -15 ... 70 °C |
| Resistance to vibrations | Moderate |
| Chemical resistance | Medium |
| Packaging | Box |
| Length | 100 m |
| Minimum installation temperature | 5 °C |