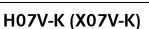
DATA SHEET 4520001 valid from:





Application

28.04.2020

H07V-K (X07V-K) are single-conductor cables with thermoplastic PVC-insulation for installation inside of closed conduits and cable ducting systems and on or under plaster as well as in similar closed systems. They are suitable for protected, stationary use in or on lighting installation or control units/ switchgear in conjunction with voltages up to 1000 V AC or 750 V DC to-ground.

Under individual part numbers, different core insulation colours and package types are offered for diverse application types. More and more automatic harnessing machines are made use of by the manufacturing sector for the harnessing of such hook-up wires. Especially therefor, we offer parts with embossed cable marking instead of printing and which are delivered inside big one-way cardboard boxes with enhanced cable amount per box. Further standard package types are classic coils with standard order length as well as spools with winded, fix standard length of this wire.

Package types

Coils: Seven-digit part without final, alphabetic character

Plastic spool (up to max. 2,5 mm²): Eight-digit part with final letter "S" on the eighth place Small version of big one-way cardboard box: Eight-digit part with final letter "K" on the eighth place Big version of big one-way cardboard box: Eight-digit part with final letter "E" on the eighth place

Design

Flammability

acc. to EN 50525-2-31 Design

Conductor fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, Class 5

Insulation PVC compound type TI 1 acc. to EN 50363-3

Electrical properties at 20°C

Rated voltage U₀/U: 450 / 750 V

2500 V AC Test voltage

Mechanical and thermal properties

Minimum bending radius at intended use:

AD ≤ 8 mm: 4 x outer diameter

 $8 \text{ mm} < AD \le 12 \text{ mm}$: $5 \times \text{ outer diameter}$

12 mm < AD: 6 x outer diameter

at cautious bending:

AD ≤ 8 mm: 2 x outer diameter

8 mm < AD ≤ 12 mm: 3 x outer diameter

12 mm < AD: 4 x outer diameter

fixed installation (without vibration): -40 °C to +80 °C Temperature range

moved operation: +5 °C to +70 °C laying/ handling: min. +5 °C

short circuit and ground leakage: max. +160 °C ambient temperature at storage: max. +40 °C

max. conductor temperature: +70 °C acc. to IEC 60332-1-2 resp. EN 60332-1-2

Ozone resistance acc. to EN 60811-403

acc. to EN 60811, EN 50395, EN 50396 Tests

The cable is characterized with the ⊲HAR⊳ HAR-sign or HAR-identification thread.

General requirements These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).