Application

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

acc. to EN 50525-2-31 (VDE 0285-525-2-31)

Conductor
fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228 (VDE 0295), Class 5

Core insulation
PVC compound type TI 1 acc. to EN 50363-3 (VDE 0207-363-3)

Electrical properties

Nominal voltage $U_0/U$ 450 / 750 V
Test voltage 2500 V AC

Mechanical and thermal properties

Minimum bending radius at intended use:
- $AD \leq 8$ mm: 4 x outer diameter
- $8$ mm < $AD \leq 12$ mm: 5 x outer diameter
- $12$ mm < $AD$: 6 x outer diameter

at cautious bending:
- $AD \leq 8$ mm: 2 x outer diameter
- $8$ mm < $AD \leq 12$ mm: 3 x outer diameter
- $12$ mm < $AD$: 4 x outer diameter

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

Flammability
acc. to IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2)

Tests
acc. to EN 60811-100 (VDE 0473-811-100); EN 50395 (VDE 0481-395); EN 50396 (VDE 0473-396);

The cable is characterized with the \(<\text{HAR}\)> HAR-sign or HAR-identification thread.

EU-Directives
These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive), and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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