4520001	DATA SHEET	LAPP
valid from: 28.04.2020	H07V-K (X07V-K)	

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

Design	acc. to EN 50525-2-31
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	U_0/U: 450 / 750 V
Test voltage	2500 V AC

Mechanical and thermal properties

Minimum bending radius	at intended use: AD ≤ 8 mm: 4 x outer diameter 8 mm < AD ≤ 12 mm: 5 x 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
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
Ozone resistance	acc. to EN 60811-403
Tests	acc. to EN 60811, EN 50395, EN 50396 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).