

4520001	DATA SHEET H07V-K (X07V-K)	 LAPP
valid from: 28.09.2021		

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

Certification

The cable is characterized with the <HAR> HAR-sign or HAR-identification thread.

Classification of fire behaviour
according to EN 13501-6 and EN 50575
(article/dimension range see www.lappkabel.com/cpr)

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

Nominal voltage U₀/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 +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

Tests

acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

General requirements

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

A part of these cables (see www.lappkabel.com/cpr) are classified
in accordance with the EU-Regulation no. 305/2011 (CPR).

Environmental information

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

Note

Trade product, no Lapp product

AbN
automation

Creator: LABU / PDC	Document: DB4520001EN	Page 1 of 1
Released: ALTE / PDC	Version: 14	