

|                           |                        |                                                                                     |
|---------------------------|------------------------|-------------------------------------------------------------------------------------|
| 4527001                   | <b>DATA SHEET</b>      |  |
| valid from:<br>28.09.2021 | <b>H07V-U (X07V-U)</b> |                                                                                     |

## Application

H07V-U (X07V-U) 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.

## 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<br>according to EN 13501-6 and EN 50575<br>(article/dimension range see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> ) |
| Conductor     | solid wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 1                                                                                                |
| Insulation    | PVC compound type TI 1 acc. to EN 50363-3                                                                                                                                   |

## Electrical properties at 20 °C

|                 |                                |
|-----------------|--------------------------------|
| Nominal voltage | U <sub>0</sub> /U: 450 / 750 V |
| Test voltage    | 2500 V AC                      |

## Mechanical and thermal properties

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | at intended use:<br>AD ≤ 8 mm: 4 x outer diameter                                                                                                                                                                               |
|                        | at cautious bending:<br>AD ≤ 8 mm: 2 x outer diameter                                                                                                                                                                           |
| Temperature range      | Fixed installation (without vibration): -40 °C to +70 °C<br>laying/ handling: min. +5 °C<br>short circuit and ground leakage: max. +160 °C<br>ambient temperature at storage: max. +40 °C<br>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](http://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

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