4726001	DATA SHEET	LAPP
valid from: 01.01.2019	H07Z-K 90°C	

Application

H07Z-K 90°C is a halogen-free, low smoke cable with cross-linked insulation and low emission of corrosive gases. For wiring of lamps, machine tools and splitter and especially for applications where low smoke density and low emission of corrosive gases are required in case of fire.
Application range:
For installation in tubes, on, in and under plaster as well as in closed installation ducts. Suitable for fix, protected installation and use, also in or on luminaries or control and switching devices up to 1000 VAC or up to 750 VDE to ground.

Design

Design	acc. to EN 50525-3-41 (VDE 0285-525-3-41)
Conductor	fine-wire copper conductor acc. IEC 60228 resp. EN 60228 (VDE 0295), Class 5
Insulation	halogen-free, cross-linked compound EI 5 acc. EN 50363-5 (VDE 0207-363-5) The cable is marked with the ⊲HAR⊳ HAR-sign or HAR-identification thread.
Core identification code	different colours

Electrical properties at 20°C

Rated voltage	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: -40°C to +90°C During installation: -5 °C to +90 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2)
Halogen free	acc. to EN 50525-1 (VDE 0285-525-1), appendix B; EN 60754-1 (VDE 0482-754-1)
Corrosivity of gases	acc. to EN 60754-2 (VDE 0482-754-2)
Smoke density	acc. to EN 61034-2 (VDE 0482-1034-2)
Tests	acc. to EN 60811-100 (VDE 0473-811-100); EN 50395 (VDE 0481-395); EN 50396 (VDE 0473-396);
General requirements	These cables are conform to the EU Directive 2014/35/EU (Low Voltage Directive)

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