

4726001	DATA SHEET	
valid from: 2026-06-16	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 VDC to ground.

Design

Design	acc. to EN 50525-3-41
Certification	The cable is marked with the <HAR> HAR-sign or HAR-identification thread.
Conductor	fine wire strands of bare copper acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	halogen-free, cross-linked compound EI 5 acc. to EN 50363-5
Core identification code	different colours

Electrical properties at 20 °C

Nominal 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: -40 °C to +90 °C max. conductor temperature During installation: -5 °C to +90 °C max. conductor temperature highest permissible short-circuit temperature on the conductor: +250 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to EN 50525-1, appendix B acc. to IEC 60754-1 resp. EN 60754-1
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2
Smoke density	acc. to IEC 61034-2 resp. EN 61034-2
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).
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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