

4724050	<b>DATA SHEET</b>	
valid from: 28.09.2021	<b>H05Z1-K(X05Z1-K)</b>	

## Application

H05Z1-K(X05Z1-K) 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:

Suitability for the laying inside of conduits installed on or under plaster in case of signal and control current circuits only.

## Design

Design	acc. to EN 50525-3-31
Certification	The cable is marked with the <HAR> HAR-sign or HAR-identification thread.
Conductor	fine-wire copper conductor acc. to IEC 60228 resp. EN 60228, class 5
Insulation	halogen-free, cross-linked compound T1 7 acc. to EN 50363-7
Core identification code	different colours

## Electrical properties at 20 °C

Nominal voltage	U <sub>0</sub> /U: 300/500 V
Test voltage	2000 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 +70°C During installation: +5 °C to +70 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to EN 50525-1, appendix B; EN 60754-1
Corrosivity of gases	acc. to IEC EN 60754-2 resp. EN 60754-2
Smoke density	acc. to EN 61034-2

**Tests** acc. to IEC 60811 resp. EN 60811, EN 50395 and EN 50396

**General requirements** These cables 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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