

4725001	DATA SHEET	
valid from: 2026-06-16	H05Z-K 90°C	

Application

H05Z-K 90°C is a halogen-free, low smoke cable with cross-linked insulation and low emission of corrosive gases. For internal wiring of machine tools, for wiring of lamps 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 50525-3-41
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 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: 300/500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Minimum bending radius	at intended use: 4 x outer diameter at cautious bending: 2 x outer diameter
Temperature range	Fixed installation: -40 °C to +90 °C During installation: -5 °C to +90 °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

Creator: LABU / PDC	Document: DB4725001EN	Page 1 of 1
Released: ALTE / PDC	Version: 11	