H07Z-K 90°C (X07Z-K 90°C)

DB 4726001EN
valid from: 10.09.2015

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 at 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
Core insulation	halogen-free rubber compound EI5 acc. EN 50363-5 (VDE 0207-363-5).

Electrical properties

Nominal voltage	U_0/U	450 / 750 V
Test voltage	A / A	2500 V AC

Mechanical and thermal properties

Min. 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)	
Smoke density	acc. to EN 61034-2 (VDE 0482-1034-2)	
Halogen-free	acc. to EN 50525-1 (VDE 0285-525-1), appendix B; EN 60754-1 (VDE 0482-754-1)	
Corrosivity	acc. to EN 60754-2 (VDE 0482-754-2)	
Tests	acc. to EN 60811-100 (VDE 0473-811-100); EN 50395 (VDE 0481-395); EN 50396 (VDE 0473-396);	

The cable is characterized with the ◁HAR▷ HAR-sign or HAR-identification thread.

EU-Directives	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive), and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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