1600804	DATA SHEET	LAPP
valid from: 2026-06-16	H07ZZ-F (X07ZZ-F)	

Application

H07ZZ-F (X07ZZ-F) are halogen-free, heat-resistant flexible cables for heavy stress and especially for applications where low smoke density and low emission of corrosive gases are required at in case of fire. Suitable for connection with equipment and machine tools, where cables for heavy mechanical stress are required. In dry, damp or wet rooms. Also for installation e.g. on plaster in temporary buildings and residential barracks.

Design

Design	acc. to EN 50525-3-21
Certification	The cable is characterized with the ⊲HAR⊳ HAR-sign or HAR-identification thread. Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine-wire copper conductor acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	halogen-free rubber compound EI8 acc. to EN 50363-5
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 with or without GN-YE ground conductor starting at 6 cores: black cores with white numbers with GN-YE ground conductor acc. to EN 50334
Outer sheath	for cable up to 50 mm²: single-layered: EM 8 acc. to EN 50363-6 for cable starting at 70 mm²: double-layered: inner layer EM 8 or EM 10 acc. to EN 50363-6 outer sheath: EM 8 acc. to EN 50363-6

Electrical properties at 20 °C

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

Mechanical and thermal properties

Minimum bending radius	4 to 8 x outer diameter acc. to EN 50565-1
Temperature range	occasional flexing: - 5 °C to +90 °C max. conductor temperature fixed installation: -40 °C to +90 °C max. conductor temperature
Flammability	flame retardant acc. to EN 60332-1-2 resp. IEC 60332-1-2 No Flame propagation acc. IEC 60332-3-24 resp. EN IEC 60332-3-24
Halogen free	acc. to EN 50525-1 Appendix B and C
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2
Smoke density	acc. to IEC 61034-2 resp. EN 61034-2
Ozone resistance	acc. to EN 50363-6, EN 60811-403 method A, EN 50396 8.1.3 method B
Oil resistance	acc. to EN 50363-6, test method acc. to EN 60811-404
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). A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
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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