


1600804	DATA SHEET	
valid from: 01.01.2019	H07ZZ-F (X07ZZ-F)	

Application

H07ZZ-F (X07ZZ-F) are halogen-free, heat-resistant hose cables for heavy stress and especially for applications where low smoke density and low emission of corrosive gases are required 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 (VDE 0285-525-3-21)
Conductor	fine-wire copper conductor acc. IEC 60228 resp. EN 60228 (VDE 0295), class 5
Insulation	halogen-free rubber compound EI8 acc. EN 50363-5 (VDE 0207-363-5)
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 (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 (VDE 0293-334)
Outer sheath	For cable up to 50 mm ² : Single-layered: EM 8 acc. EN 50363-6 (VDE 0207-363-6) For cable starting at 70 mm ² : Double-layered: Inner layer EM 8 or EM 10 acc. EN 50363-6 (VDE 0207-363-6) Outer sheath: EM 8 acc. EN 50363-6 (VDE 0207-363-6)

Electrical properties at 20°C

Rated 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 D acc. to DIN EN 50565-1 (VDE 0298-565-1)
Temperature range	flexible: - 5 °C to +70 °C fixed installation: -40 °C to +70 °C max. conductor temperature: +90 °C
Flammability	flame retardant acc. IEC 60332-1-2 bzw. EN 60332-1-2 (VDE 0482-332-1-2) flame propagation acc. IEC 60332-3-24 bzw. EN 60332-3-24 (VDE 0482-332-3-24)
Halogen free	acc. EN 50525-1 (VDE 0285-525-1) Appendix B and C
Corrosivity of gases	acc. EN 50267-2-2 (VDE 0482-267-2-2)
Smoke density	acc. EN 61034-2 (VDE 0482-1034-2)
Ozone resistance	acc. EN 50363-3 (VDE 0207-363-6); EN 60811-403 (VDE 0473-811-403) method A; EN 50396.8.1.3 (VDE 0473-396.8.1.3) method B
Tests	acc. EN 60811-100 (VDE 0473-811-100); EN 50395 (VDE 0481-395); EN 50396 (VDE 0473-396); EN 50363-3 (VDE 0207-363-6) The cable is characterized with the <HAR> HAR-sign or HAR-identification thread.
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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