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0046001	DATA SHEET	LAPP
valid from: 07.09.2023	ÖLFLEX® HEAT 180 SiHF	

Application

ÖLFLEX® HEAT 180 SiHF are silicone cables designed for use as power and control cables at high ambient temperatures. The use of these cables is recommended for example in the following fields:
Steel and iron works, cement and ceramic works, foundries, bakery equipment, electric motor industry, sauna and solarium construction, thermal and heating elements, lighting technology, ventilator engineering, air conditioning technology, oven construction, galvanization technology and polymer processing.

Design

Design	based on EN 50525-2-83
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. EN 60228, Class 5
Insulation	silicone compound EI2 acc. to EN 50363-1
Core identification code	starting at 3 cores with GN/YE ground conductor up to 5 cores coloured acc. to VDE 0293-308 starting at 6 cores: Black cores with white numbers
Stranding	cores are stranded in layers 7-core cables with 1+6 stranding
Outer sheath	silicone compound EM9 acc. to EN 50363-2-1 Coral red like RAL 3016

Electrical properties at 20 °C

Nominal voltage	300/500 V
Test voltage	core/core: 2000 V

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -25˚C bis +180˚C (adequate ventilation provided) fixed installation: -60˚C bis +180˚C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2
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).

We reserve all rights according to DIN ISO 16016.