

0068000	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® HEAT 180 SiD	

Application

ÖLFLEX® HEAT 180 SiD are silicone-single cores and recommended for use in the case of raised ambient temperatures under sufficient ventilation and small mechanical stress.

ÖLFLEX® HEAT 180 SiD are largely resistant to oil, alcohol, acids, caustic solutions, salt solutions and salt water.

Typical fields of application: control cabinet manufacturing, appliances and apparatus engineering, electric motor industry, sauna/solarium construction, thermal and heating elements, lighting technology, ventilator engineering, air-conditioning technology, furnace construction, polymer processing, generator and transformer manufacturing.

Design

Conductor	tinned solid copper wire acc. to IEC 60228 resp. VDE 0295, Class 1
Insulation	silicone compound EI2 acc. to VDE 0207-363-1
Core identification code	Available core colours: GN-YE / BK / BU / BN / BG / YE / GN / VT / PK / OG / RD / WH / GR

Electrical properties at 20°C

Specific volume resistivity	> 200 GΩ x cm
Rated voltage	300 / 500 V
Test voltage	2000 V

Mechanical and thermal properties

Minimum bending radius	fixed installation: 6 x core Ø One bend at end of core: 3 x core Ø
Temperature range	-50 °C up to +180 °C max. conductor temperature Adequate ventilation must be ensured, since the mechanical properties of silicone cables decrease from +100°C in the absence of air. temporary: +200°C
Flammability	flame retardant acc. to IEC 60332-1-2 after combustion a SiO ₂ -ash skeleton remains, which has still good insulation properties but has no mechanical stability.
Halogen free	acc. to IEC 60754-1
Corrosivity of gases	acc. to IEC 60754-2
Tests	acc. to IEC 60811, EN 50395
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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