0065101	DATA SHEET	LAPP
valid from: 04.04.2023	ÖLFLEX® HEAT 180 SiF/GL	

Application

ÖLFLEX® HEAT 180 SiF/GL are silicone-single cores with glass fibre braiding and recommended for use in the case of raised ambient temperatures under sufficient ventilation and small mechanical stress.
ÖLFLEX® HEAT 180 SiF/GL 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	fine wire strands of tinned copper acc. to IEC 60228 resp. EN 60228, Class 5
Insulation	Silicone based compound EI2 in acc. to EN 50363-1
Core identification code	white
Outer sheath	Cover made of impregnated glass fibre braiding, natural colour

Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 6 x outer diameter
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.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 after combustion a SiO2-ash skeleton remains, which has still good insulation properties but has no mechanical stability.
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).