0046500	DATA SHEET	LAPP
valid from: 05.08.2019	ÖLFLEX® HEAT 180 EWKF	

Application

ÖLFLEX® HEAT 180 EWKF are notch resistant silicone cables with increased mechanical characteristics 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, bakery equipment and industrial furnaces, electric motor industry, sauna and solarium construction, thermal and heating elements, lighting technology, ventilator engineering, air conditioning technology, galvanization technology and polymer processing, generator and transformer building, wind turbine engineering.

Design

Design	based on VDE 0285-525-2-83
Conductor	fine wire strand of tinned copper acc.to IEC 60228 resp. VDE 0295, class 5
Insulation	notch resistant silicone compound EI2 acc. to VDE 0207-363-1
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 acc. to DIN EN 50334 resp. VDE 0293-334
Stranding	cores are stranded in layers 7-core cables with 1+6 stranding
Outer sheath	notch resistant silicone compound EM9 acc. to VDE 0207-363-2-1 colour: black, similar RAL 9005

Electrical properties at 20°C

Specific volume resistivity	> 200 GΩ x cm
Nominal voltage	U_0/U: 300/500 V
Test voltage	2000 V AC

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 fixed installation: -60˚C bis +180˚C (adequate ventilation provided) temporary: +200˚C
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Halogen free	acc. to IEC 60754-1
Corrosivity of gases	acc. to IEC 60754-2
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

We reserve all rights according to DIN ISO 16016.