| 0068000 | DATA SHEET | LAPP |
|---|---|---|
| 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

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|---|---|
| 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:<br>GN-YE / BK / BU / BN / BG / YE / GN / VT / PK / OG / RD / WH / GR |

## Electrical properties at 20°C

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

## Mechanical and thermal properties

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| Minimum bending radius | fixed installation: 6 x core Ø<br>One bend at end of core: 3 x core Ø |
| Temperature range | -50 °C up to +180 °C max. conductor temperature<br>Adequate ventilation must be ensured, since the mechanical properties of silicone cables decrease from +100°C in the absence of air.<br>temporary: +200°C |
| Flammability | flame retardant acc. to IEC 60332-1-2<br>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 |
| 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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