

0046900

**DATA SHEET**valid from:  
01.01.2019**ÖLFLEX® HEAT 180 H05SS-F EWKF****LAPP****Application**

ÖLFLEX® HEAT 180 H05SS-F EWKF 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.

The product is certified by a member of CENELEC and is marked with <HAR>.

**Design**

|                          |   |
|--------------------------|---|
| Design                   | nach EN 50525-2-83 bzw. VDE 0285-525-2-83   |
| Certification            | H05SS-F acc. to EN 50525-2-83 resp. VDE 0285-525-2-83   |
| Conductor                | fine wire strand of tinned copper acc.to IEC 60228 resp. VDE 0295, class 5                      |
| Insulation               | silicone compound EI2 acc. to VDE 0207-363-1, EWKF-quality                                      |
| Core identification code | starting at 3 cores with GN/YE ground conductor<br>up to 5 cores coloured acc. to VDE 0293-308  |
| Stranding                | cores are stranded in layers  |
| Outer sheath             | silicone compound EM9 acc. to VDE 0207-363-2-1, EWKF-quality<br>colour: black, similar RAL 9005 |

**Electrical properties at 20°C**

|                             |                              |
|-----------------------------|------------------------------|
| Specific volume resistivity | > 200 GΩ x cm                |
| Rated voltage               | U <sub>0</sub> /U: 300/500 V |
| Test voltage                | 2000 V AC                    |

**Mechanical and thermal properties**

|                        |   |
|------------------------|---|
| Minimum bending radius | occasional flexing: 15 x outer diameter<br>fixed installation: 4 x outer diameter |
| Temperature range      | occasional flexing: -50 °C bis +180 °C<br>fixed installation: -50 °C bis +180 °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)   |

AbN  
automation