



ÖLFLEX® HEAT 180 EWKF C

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Application

ÖLFLEX® HEAT 180 EWKF C are screened 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

Conductor	fine strands of tinned copper wires
Insulation	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
Stranding	cores are stranded in layers 7-core cables with 1+6 stranding
Inner sheath	silicone compound EM9 acc. to VDE 0207-363-2-1 coral red like RAL 3016
Screen	Braiding with tinned copper wires, wrapping with foil on the screen
Outer sheath	notch resistant silicone compound EM9 acc. to VDE 0207-363-2-1 Black like RAL 9005

Electrical properties at 20°

Insulation resistance	> 200 GΩ x cm
Rated voltage	300/500 V
Test voltage	core/core 2000 V core/screen 2000 V

Mechanical and thermal properties

Bending radius	occasional flexing: 20 x cable Ø fixed installation: 6 x cable Ø
Temperature range	occasional flexing: -25 °C bis +180 °C fixed installation: -50 °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	in acc. with IEC 60754-1
Corrosivity of gases	in acc. with IEC 60754-2
EC directive	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).

Design based on standard VDE 0285-525-2-83