



DATA SHEET	0046900
ÖLFLEX® HEAT 180 H05SS-F EWKF	valid from : 14.12.2007

Application

ÖLFLEX® HEAT 180 H05SS-F EWKF is a harmonised silicone cable for the European market with improved mechanical properties, i.e. the jacket is more initial-, tear- and notch resistant than a cable with a standard silicon compound jacket. The cables are recommended for use with high ambient temperatures or close to hot surface areas under sufficient ventilation. These cables are used for fixed indoor installation, at lamp attachments, in smelting works, steel works and hot-rolling mills, in electric motor engineering, shipbuilding and aircraft construction, in sauna- and solarium production, as well as many other areas. In the case of room temperature ÖLFLEX® HEAT 180 H05SS-F EWKF is generally resistant against oils, alcohols, acids, caustic solutions, salt solution and salt water, furthermore is the cable resistant against UV-radiation. At installation keep in mind that the cables are not damaged by sharp edges or by abrasion.

Design

Conductor	fine wire strand of tinned copper acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	Silicone based compound EI2 acc. to HD 22.1 resp. VDE 0282-1
Core identification	acc. to VDE 0293-1, with or without gn/ye ground conductor up to 5 cores coloured in acc. to HD 308 S2 resp. VDE 0293-308
Outer sheath	Silicone compound EM9 acc. to HD 22.1 resp. VDE 0282-1, colour black

Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Temperature range	-50 °C up to +180 °C max. conductor temperature pay attention to sufficient ventilation, if ignoring the max. conductor temperature is +100 °C.
Min. bending radius	15 x cable diameter for flex. applications
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 after combustion a SiO ₂ -ash skeleton remains, which has still good insulation properties but has no more any mechanical stability
Halogen-free	acc. to IEC 60754-1 resp. VDE 0472 part 815
Corrosivity	acc. to IEC 60754-2 resp. VDE 0482 part 267-2-3
Approvals	acc. to HD 22.15 S1 resp. VDE 0282-15
Tests	in acc. to IEC 60811-x-x resp. VDE 0473-396, VDE 0481-395
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).

elaborated by: TE-K: M. Herb / R. Krämer	Document: DB0046900EN	page 1 of 1
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