LAPP GROUP	**DATA SHEET**	0046001
	ÖLFLEX® HEAT 180 SiHF	valid from : 11.12.2007

Application

ÖLFLEX® HEAT 180 SiHF are silicone cables and recommended for use in the case of high ambient temperatures under sufficient ventilation and small mechanical stress. In the case of room temperature, ÖLFLEX® HEAT 180 SiHF is largely resistant against oil, alcohol, acids, caustic solutions, salt solution and salt water.

Design

Conductor	fine wire strand of tinned copper acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	Silicone based compound EI2 in acc. to HD 22.1 resp. VDE 0282-1
Core Identification	acc. to VDE 0293-1, with gn/ye or without gn/ye ground conductor up to 5 cores coloured in acc. to HD 308 S2 resp. VDE 0293-308 more than 5 cores black with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Outer sheath	Silicone based compound EM9 in acc. to HD 22.1 resp. VDE 0282-1
Outer sheath colour	blazing red (similar RAL 3000)

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	4 x cable diameter for fixed installation 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 SiO2-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
Tests	in acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x, VDE 0472
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).