

1249500	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® HEAT 180 SiF A	

Application

ÖLFLEX® HEAT SiF A are UL/cRU certified, heat resistant silicone single cores for the European and North American market, for occasional flexible use and fixed installation under low mechanical stress. They are halogen-free and feature low toxicity of gases and corrosivity in case of fire. They are characterized by good ozone and UV resistances and suitable for use under high ambient temperatures provided adequate ventilation.

Application range:

Control cabinets, wiring and connecting in devices and apparatus engineering, heating elements, air-conditioning, sauna and solarium construction as well as in other operating ranges.

Acc. to UL: Internal wiring of appliances where totally enclosed.

Acc. to cRU: CSA AWM I A/B, internal wiring of equipment with or without mechanical abuse.

Design

Design	based on EN 50525-2-41 resp. VDE 0285-525-2-41 acc. to UL 758, Style 3644 CSA AWM C22.2 No. 210-15
Certification	UL AWM Style 3644, UL 758 cRU AWM I A/B, C22.2 No. 210-15
Conductor	fine wire strands of non-porous tinned copper acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	Silicone compound acc. to UL 1581, table 50.210 (150°C) and EI2 acc. to VDE 0207-363-1
Core identification code	Available core colours: GN-YE / BK / BN / BU / GY / WH / OG / GN / YE / VT / RD / DBU

Electrical properties at 20°C

Rated voltage	U ₀ / U:	600/1000 V
	UL/cRU:	1000 V
Test voltage		3000 V AC

Mechanical and thermal properties

Minimum bending radius	fixed installation: 6 x core Ø One bend at end of core: 3 x core Ø
Temperature range	occasional flexing: acc. to UL/cRU up to +150°C max. conductor temp. acc. to IEC -50°C up to +180°C max. conductor temp. fixed installation: acc. to UL/cRU up to +150°C max. conductor temp. acc. to IEC -50°C up to +180°C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Horizontal Flame Test
Halogen free	acc. to IEC 60754-1
Corrosivity of gases	acc. to IEC 60754-2
Toxicity	acc. to EN 50305 resp. VDE 0260 part 305
UV resistance	acc. to EN ISO 4892-2-2013, method A (change of color allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Creator: LABU / PDC	Document: DB1249500EN	Page 1 of 1
Released: ALTE / PDC	Version: 02	