1249500	DATA SHEET	LAPP
valid from: 15.03.2022	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 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 solaria construction as well as in other operating ranges.
Use acc. to UL: Internal wiring of appliances where totally enclosed.
Use 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 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. EN 60228, class 5
Insulation	Silicone compound acc. to UL 1581, table 50.210 (150°C) and EI2 acc. to EN 50363-1
Core identification code	Available core colours: GN-YE / BK / BN / BU / GY / WH / OG / GN / YE / VT / RD / DBU

Electrical properties at 20 °C

Nominal 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 outer diameter One bend at end of core: 3 x outer diameter
Temperature range	fixed installation: (UL/CSA) up to +150°C (EN) -50°C up to +180°C (adequate ventilation required)
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: Horizontal Flame Test
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2
Toxicity	acc. to EN 50305
UV resistance	acc. to EN ISO 4892-2, method A (change of color allowed)
Ozone resistance	acc. to EN 50396, method B

General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).