DATA SHEET

valid from: 01.01.2019

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ÖLFLEX® HEAT 180 MS



Application

ÖLFLEX® HEAT 180 MS is an approved silicone cable for the North American market. 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 hotrolling mills, in electric motor engineering, shipbuilding and aircraft construction, in sauna- and solarium production, as well as many other areas.

At room temperature ÖLFLEX® HEAT 180 MS is generally resistant against oils, alcohol, acids, caustic solutions, salt solution and salt water, furthermore the cable is resistant against UV-radiation.

Use according to UL: Internal wiring and external interconnection of appliances, fixtures and electronic equipment.

Design

Certification UL AWM Style 4476 / 3529 & CSA AWM I A/B II A/B

Marking of approval is printed on the cable sheath

Conductor Fine strands of tinned copper wires, according to IEC 60228 resp. VDE 0295, class 5

Insulation Silicone rubber compound according to UL AWM Style 3529 (UL 150°C)

Core identification code acc. to VDE 0293-1, with or without GN/YE ground conductor

up to 5 cores coloured in acc. to HD 308 S2 that is VDE 0293-308

starting at 6 cores: Black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334

Outer sheath silicone compound according to UL AWM Style 4476 (UL 150°C),

colour: black

Electrical properties at 20°C

Rated voltage UL/CSA: 600 V

IEC: 300/500 V

Test voltage 2000 V AC

Mechanical and thermal properties

Minimum bending radius occasional flexing: 15 x outer diameter

fixed installation: 4 x outer diameter

Temperature range UL/CSA: up to +150°C (max. conductor temperature)

IEC: occasional flexing fixed installation -50°C up to +180°C (max. conductor temperature) -60°C up to +180°C (max. conductor temperature)

Adequate ventilation must be ensured, since the mechanical properties of silicone cables decrease

from +100°C in the absence of air.

Flammability vertical flame test according to UL 1581 § 1061 & CSA FT-1

flame retardant according 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 Corrosivity of gases acc. to IEC 60754-2

General requirements These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)