

ÖLFLEX® HEAT 180 MS**DB 0046600****valid from: 02.09.2016****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

Conductor	Fine strands of tinned copper wires, according to IEC 60228 resp. VDE 0295, class 5
Conductor resistance	according to IEC 60228 resp. VDE 0295
Core insulation	Silicone rubber compound according to UL AWM Style 3529 (UL 150°C)
Color code	according to VDE 0293-1, with gn/ye or without gn/ye ground conductor up to 5 cores colored in according to HD 308 S2 resp. VDE 0293-308 more than 5 cores black with white numbers acc. to DIN EN 50334
Jacket	silicone compound according to UL AWM Style 4476 (UL 150°C), color black

Electrical properties at 20°C

Nominal voltage U_0/U	UL/CSA: 600 V IEC: 300/500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Temperature range	UL/CSA: -50°C up to +150°C (max. conductor temperature) IEC: occasional flexing -50°C up to +180°C (max. conductor temperature) fixed installation -60°C up to +180°C (max. conductor temperature)
Min. bending radius	occasional flexing: 15 x cable diameter fixed installation: 4 x cable diameter
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 SiO ₂ -ash skeleton remains, which has still good insulation properties but has no more any mechanical stability.
Halogen-free	according to IEC 60754-1 resp. EN 60754-1
Corrosivity	according to IEC 60754-2 resp. EN 60754-2
Approvals	UL AWM Style 4476 / 3529 & CSA AWM I A/B II A/B Marking of approval is printed on the cable sheath
EU directives	The cable conforms to the EC low voltage directive 2014/35/EU