

0046701	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® HEAT 180 C MS	

Application

ÖLFLEX® HEAT 180 C MS is an approved silicone cable for the North American market with copper screen braiding. 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 C MS is generally resistant against oils, alcohol, acids, caustic solutions, salt solution and salt water, furthermore the cable is resistant against UV-radiation. The copper braiding serves as protection against electrical interference and conforms to EMC.

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
Screen	plastic foil wrapping braiding of tinned copper wires, coverage 85% (nominal value) plastic foil wrapping
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: 20 x outer diameter fixed installation: 6 x outer diameter
Temperature range	UL/CSA: 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) 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 SiO ₂ -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)

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