



DATA SHEET	0046701
ÖLFLEX[®] HEAT 180 C UL/CSA cables	valid from : 01.04.2009

Application

ÖLFLEX[®] HEAT 180 C UL/CSA 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. In the case of room temperature ÖLFLEX[®] HEAT 180 C UL/CSA is generally resistant against oils, alcohol, acids, caustic solutions, salt solution and salt water, furthermore is the cable resistant against UV-radiation.

Use according to UL: Internal wiring and external interconnection of appliances, fixtures and electronic equipment. The copper braiding serves as protection against electrical interference and conforms to EMC.

Design

Conductor	fine wire strand of tinned copper acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	silicone based compound acc. to UL-Style 3529
Core identification	acc. to VDE 0293-1, with or without gn/ye ground conductor up to 5 cores coloured in acc. to HD 308 S2 resp. VDE 0293-308 more than 5 cores black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Screening	plastic foil wrapping, braiding of tinned copper wires, coverage 85% (nominal value) plastic foil wrapping
Outer sheath	silicone compound acc. to UL-Style 4476, colour black

Electrical properties at 20 °C

Nominal voltage	UL/CSA: 600 V
	IEC/VDE: 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 VDE: -50 °C up to +180 °C max. conductor temperature
Min. bending radius	6 x cable diameter for fixed installation 20 x cable diameter for flexible applications
Flammability	vertical flame test acc. to UL 1581 § 1061 and CSA FT-1 flame retardant in acc. 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 Corrosivity	acc. to IEC 60754-1 resp. VDE 0472 part 815 acc. to IEC 60754-2 resp. VDE 0482 part 267-2-3
Approvals	UL AWM Style 4476 / 3529 and CSA AWM I A/B II A/B Signation of approval is printed on the cable sheath
Tests	in acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x, VDE 0472
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).

elaborated by: PD-KL: Frank Hörtnagl	Document: DB0046701EN	page 1 of 1
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