


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® HEAT 180 MS</b>	29.11.2013

Certified silicone cables for North America (AWM recognized)

Certified for the USA and Canada for export-oriented appliance and apparatus manufacturers

Thicker cable design meets the requirements of the FT-1 flame test and also approved for the external interconnection of apparatuses and appliances

Flexibility simplifies installation where space is limited

Possesses insulating properties after combustion due to remaining SiO<sub>2</sub> ash on the conductor



Halogen-free



Cold-resistant



Temperature-resistant



UV-resistant

### Info

MS = Multi-Standard For use in the USA and Canada

UL AWM Style 4476 (150°C/600V)

### Application range

Areas with high ambient temperatures where insulating and sheath materials of conventional cables will embrittle after a short while

Typical fields of application- Steel, ceramic and iron works- Bakery equipment and industrial furnaces- Electric motor industry- Sauna/solarium construction- Thermal and heating elements- Lighting technology- Ventilator engineering- Air-conditioning technology- Galvanisation technology

### Design

Fine-wire, tinned-copper conductor

Silicone-based core insulation

Cores twisted together

Silicone-based outer sheath, colour black

### Norm references / Approvals

UL AWM 4476 and cUL AWM II A/B Construction B, External interconnection

### Product features


Metric flexible conductor design

Halogen-free and flame-retardant (IEC 60332-1-2)

Good hydrolysis and UV-resistance

Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances

Product Management	Document: LAPP_PRO151EN.pdf	1 / 4
--------------------	-----------------------------	-------

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® HEAT 180 MS</b>	<b>29.11.2013</b>

### Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs are not to scale and do not represent detailed images of the respective products.

### Technical Data

Core identification code:	Colours according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Classification:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5 (Refer to Appendix T16 for the matching US conductor sizes in AWG standard)
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	$U_0/U$ : 300/500 V Working voltage UL: 600 V
Test voltage:	2000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	According to VDE: -50 °C to +180 °C Normatively acc. UL Style: up to +150 °C (adequate ventilation required)

Product Management	Document: LAPP_PRO151EN.pdf	2 / 4
--------------------	-----------------------------	-------

## ÖLFLEX® HEAT 180 MS

29.11.2013

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 MS				
0046600	2 X 0,5	7,4	9.8	72
0046601	3 G 0,5	7,8	14.7	83
00466023	4 G 0,5	8,5	19.6	99
00466033	5 G 0,5	9,2	24.5	119
0046604	7 G 0,5	9,9	34.3	142
0046612	2 X 1	8,2	19.2	93
0046613	3 G 1	8,7	28.8	110
00466143	4 G 1	9,4	38.4	133
00466153	5 G 1	10,3	48.0	160
0046616	7 G 1	11,1	67.2	195
0046617	12 G 1	14,9	115.2	345
0046618	2 X 1,5	8,8	28.8	113
0046619	3 G 1,5	9,3	43.2	135
00466203	4 G 1,5	10,1	57.6	165
00466213	5 G 1,5	11,1	72.0	200
0046622	7 G 1,5	12,0	100.8	246
0046623	12 G 1,5	16,1	172.8	437
0046625	18 G 1,5	18,8	259.2	613
0046626	25 G 1,5	22,9	360.0	904
0046628	2 X 2,5	9,6	48.0	146
0046629	3 G 2,5	10,2	72.0	178
00466303	4 G 2,5	11,1	96.0	220
00466313	5 G 2,5	12,2	120.0	269
0046633	3 G 4	11,5	115.2	246
00466343	4 G 4	12,6	153.6	307
00466353	5 G 4	14,2	192.0	389
0046636	3 G 6	14,9	172.8	396
00466373	4 G 6	16,4	230.4	495



**ÖLFLEX® HEAT 180 MS**

29.11.2013

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
00466383	5 G 6	18.0	288.0	608