

## ÖLFLEX® HEAT 180 C MS

Screened and approved silicone cables for North America (AWM recognized)

ÖLFLEX® HEAT 180 C MS - shielded silicone power and control cable, UL/cUL-AWM approved for machine and plant construction in North America, suitable for +180°C

### Info

MS = Multi-Standard

For use in the USA and Canada

UL AWM Style 4476 (150 °C/600 V)

CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)



Halogen-free



Cold-resistant



Interference signals



Temperature-resistant



UV-resistant

### Benefits

Certified for the USA and Canada for export-oriented machine, 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

Copper braiding screens the cable against electromagnetic interference

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

# ÖLFLEX® HEAT 180 C MS

## 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

## Product features

Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2)

Flame-retardant acc. to IEC 60332-1-2, Cable Flame Test, CSA FT 1

Good hydrolysis and UV-resistance

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

Adequate ventilation must be ensured, since the mechanical properties of silicone cables decrease from +100°C in the absence of air

## Norm references / Approvals

UL AWM 4476 and cUL AWM II A/B

Construction B, External wiring

UL File No. E63634

## Product Make-up

Fine-wire, tinned-copper conductor

Silicone-based core insulation

Cores twisted together

Tinned-copper screen braiding,

interleaved plastic foil wrapping

Silicone-based outer sheath,

colour black

## Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC001578

ETIM 5.0 Class-Description: Flexible cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC001578

ETIM 6.0 Class-Description: Flexible cable

Core identification code:

Colours according to VDE 0293-308, refer to Appendix T9

From 6 cores: black with white numbers

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: 20 x outer diameter

Fixed installation: 6 x outer diameter

Nominal voltage:

U0/U: 300/500 V

Working voltage UL: 600 V

Test voltage:

2000 V

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## ÖLFLEX® HEAT 180 C MS

Protective conductor:

G = with GN-YE protective conductor  
X = without protective conductor

Temperature range:

According to VDE: -60 °C to +180 °C  
UL/cUL: up to +150 °C  
(adequate ventilation required)

### Note

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

Copper price basis: EUR 150/100 kg. 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 and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 C MS				
0046701	3 G 0.5	8.6	43.4	100
0046702	4 G 0.5	9.3	55.4	122
0046703	5 G 0.5	10	60.2	137
0046708	2 X 1.0	9	48.2	104
0046709	3 G 1.0	9.5	65	131
0046710	4 G 1.0	10.2	74.6	152
0046711	5 G 1.0	11	91.5	181
0046712	7 G 1.0	11.9	117.9	228
0046716	2 X 1.5	9.6	65	126
0046717	3 G 1.5	10.1	79.4	152
0046718	4 G 1.5	10.9	101.1	186
0046719	5 G 1.5	11.8	122.7	222
0046720	7 G 1.5	12.8	158.7	281
0046721	12 G 1.5	16.9	245.2	431
0046723	18 G 1.5	19.6	346.1	600
0046724	25 G 1.5	23.9	495.7	833
0046728	3 G 2.5	11	115.5	197
0046729	4 G 2.5	11.9	146.7	244
0046730	5 G 2.5	12.9	177.9	291
0046734	3 G 4.0	12.3	165.9	261
0046735	4 G 4.0	13.4	211.5	325
0046736	5 G 4.0	14.9	257.2	389
0046740	4 G 6.0	17.2	302.8	482
0046741	5 G 6.0	18.7	367.6	580
0046742	4 G 10.0	22.8	508.4	802

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