

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



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

Last Update (27.04.2024)

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Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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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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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

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 ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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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