® LAPP GROUP

Expanded ambient temperatures • Silicone cables (-50°C to +180°C)

















ÖLFLEX® HEAT 180 C MS

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



- MS = Multi-Standard For use in the USA and Canada
- UL AWM Style 4476 (150°C/600V)
- · Metric flexible conductor design

LAPP KABEL STUTTGART ÖLFLEX® HEAT 180 C MS



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Benefits

- 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
- Copper braiding screens the cable against electromagnetic interference

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 5.0 Class-ID: EC001578 ETIM 5.0 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

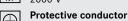


Nominal voltage U₀/U: 300/500 V

Working voltage UL: 600 V



Test voltage 2000 V



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



Temperature range

According to VDE: -50 °C to +180 °C UL/cUL: up to +150°C (adequate ventilation required)

Article number	Number of cores and mm² 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	10.0	60.2	137		
0046708	2 X 1	9.0	48.2	104		
0046709	3 G 1	9.5	65	131		
0046710	4 G 1	10.2	74.6	152		
0046711	5 G 1	11.0	91.5	181		
0046712	7 G 1	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		

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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	11.0	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	12.3	165.9	261
0046735	4 G 4	13.4	211.5	325
0046736	5 G 4	14.9	257.2	389
0046740	4 G 6	17.2	302.8	482
0046741	5 G 6	18.7	367.6	580
0046742	4 C 10	22.0	E00 /	002

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 ≤ 30 kg or ≤ 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.

Similar products

• ÖLFLEX® HEAT 180 MS refer to page 178

Accessories

KS 20 cable shears refer to page 999