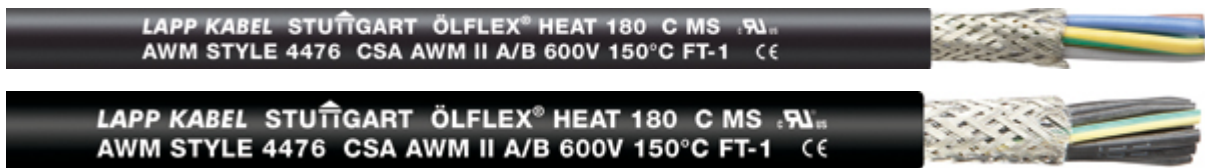


Screened and approved silicone cables for North America (AWM)

Product Description

Approved for the USA and Canada for export-oriented appliance and apparatus builders; Thicker cable design meets the requirements of the FT-1 flame test and is thus also approved for installation in accordance with UL outside of apparatus and appliances; Good flexibility eases the installation where space is limited; Copper braiding assures EMC and screens 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-, cement-, 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 - Galvanization technology - Polymer processing - Generator and transformer building - Wind turbine engineering

Benefits

- Approved for the USA and Canada for export-oriented appliance and apparatus builders
- Thicker cable design meets the requirements of the FT-1 flame test and is thus also approved for installation in accordance with UL outside of apparatus and appliances
- Good flexibility eases the installation where space is limited
- Copper braiding assures EMC and screens against electromagnetic interference

Design

- Fine strands of tinned copper wires
- Silicone based core insulation
- Cores twisted together
- Tinned copper screen braiding, interleaved plastic foil wrapping
- Silicone based outer sheath, colour black (RAL 9005)



Approvals (Norm references)

- UL AWM 4476 and cUL AWM II A/B
- Also available on request as special product with AWM rating 200°C/600 V
- Multi-conductor Type AWM cables (Appliance Wiring Material) shall be permitted for industrial machinery (US) when part of a listed assembly suitable for the intended use only. NFPA 79 Edition 2007 §12.2.7.3

Product features

- Metric flexible conductor design
- Halogen-free and flame retardant (IEC 60332-1-2)
- Reduced smoke density
- Good hydrolysis and UV resistance
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and chemical media

Technical Data

Core identification code

Colour coded according to VDE 0293-308, see Appendix T9

Starting at 6 cores: Black with white numbers

Approvals

UL AWM Style 4476 (Construction B)

cUL AWM II A/B (Canada)

Specific insulation resistance

>200 GOhm x cm

Conductor stranding

Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5

(For matching US conductor sizes according AWG please see technical table T16)

Minimum bending radius

Occasional flexing: 20 x cable diameter

Fixed installation: 6 x cable diameter

Rated voltage

VDE U0/U: 300/500 V Working voltage UL: 600 V

Test voltage

2000 V

Protective conductor

G = with protective conductor GN/YE

X = without protective conductor

Range of temperature

According VDE: -50 °C up to +180 °C

According to UL-Style: up to +150 °C (adequate ventilation provided)

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in 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	65.0	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	65.0	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	11.0	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 G 10	22,8	508.4	802

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (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.