



# ÖLFLEX® HEAT 180 SiF A

UL-AWM certified Silicone single core cable with extended temperature range

**Info**

- A for Advanced here: certification for USA and Canada
- UL AWM Style 3644 (150°C/1000 V)



- Benefits**
- Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
  - Possesses insulating properties after combustion due to remaining SiO<sub>2</sub> ash on the conductor

- Application range**
- Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while
  - Typical fields of application
    - Control cabinet manufacturing
    - Appliances and apparatus engineering
    - Electric motor industry
    - Sauna/solarium construction
    - Thermal and heating elements
    - Lighting technology
    - Ventilator engineering
    - Air-conditioning technology
    - Furnace construction
    - Polymer processing
    - Generator and transformer manufacturing

- Product features**
- Fire behaviour:
    - Flame-retardant (IEC 60332-1-2)
    - Halogen-free (IEC 60754-1)
    - No corrosive gases (IEC 60754-2)
    - Low smoke density (IEC 61034-2)
    - Low toxicity (EN 50305)
  - Flame retardance rating (UL): FT2 (Horizontal flame test)
  - Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances

- Norm references / Approvals**
- UL AWM Style 3644
  - UL File No. E63634

- Product Make-up**
- Fine-wire, tinned-copper conductor
  - Silicone-based insulation

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000993  
ETIM 5.0/6.0 Class-Description: Single core cable
- Conductor stranding**  
Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm<sup>2</sup>
- Minimum bending radius**  
Fixed installation: 6 x core diameter  
One bend at end of core:  
3 x cable diameter
- Nominal voltage**  
UL: 1000 V  
IEC: U<sub>0</sub>/U 600/1000 V
- Test voltage**  
3000 V
- Temperature range**  
IEC: -50°C up to +180°C  
UL (AWM): up to +150°C (adequate ventilation required)

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	brown	black	grey	blue	green/yellow	orange	dark blue
<b>ÖLFLEX® HEAT 180 SiF A</b>										
0.25	2.2	2.4	6.8	1249560	1249520	1249620	1249540	1249500	1249680	1249660
0.5	2.4	4.8	10.9	1249562	1249522	1249622	1249542	1249502	1249682	1249662
0.75	2.7	7.2	14	1249563	1249523	1249623	1249543	1249503	1249683	1249663
1	2.8	9.6	17.2	1249564	1249524	1249624	1249544	1249504	1249684	1249664
1.5	3.1	14.4	22.2	1249565	1249525	1249625	1249545	1249505	1249685	1249665
2.5	3.5	24	33.1	1249566	1249526	1249626	1249546	1249506	1249686	1249666
4	4.1	38	49.5	1249567	1249527	1249627	1249547	1249507		
6	5.5	58	78.3	1249568	1249528	1249628	1249548	1249508		
10	7.6	96	132.7	1249569	1249529		1249549	1249509		
16	8.4	154	192	1249570	1249530		1249550	1249510		
25	9.8	240	288.9		1249531		1249551	1249511		
35	10.9	336	386		1249532					
50	13.5	480	557.6		1249533					
70	15.5	672.2	775.2		1249534					
95	17.5	912	1004.4		1249535					

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	white	green	yellow	violet	red
<b>ÖLFLEX® HEAT 180 SiF A</b>								
0.25	2.2	2.4	6.8	1249600	1249720	1249700	1249640	1249580
0.5	2.4	4.8	10.9	1249602	1249722	1249702	1249642	1249582
0.75	2.7	7.2	14	1249603	1249723	1249703	1249643	1249583
1	2.8	9.6	17.2	1249604	1249724	1249704	1249644	1249584
1.5	3.1	14.4	22.2	1249605	1249725	1249705	1249645	1249585
2.5	3.5	24	33.1	1249606	1249726	1249706	1249646	1249586
4	4.1	38	49.5	1249607				1249587
6	5.5	58	78.3	1249608				1249588
10	7.6	96	132.7	1249609				1249589
16	8.4	154	192	1249610				1249590
25	9.8	240	288.9	1249611				1249591
35	10.9	336	386					1249592
50	13.5	480	557.6					1249593

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 ≤ 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 and graphics are not to scale and do not represent detailed images of the respective products.  
 Cross-section 0.25 - 4 mm<sup>2</sup> only available as 100 m box  
 Other colours are available upon request