ÖLFLEX® HEAT 180 SiF A

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

ÖLFLEX® HEAT 180 SiF A - fine wire silicone single core for use in machines, plant construction and toolbuilding for temperatures up to +180 °C, UL AWM 3644

Info

A for Advanced
here: certification for USA and Canada
UL AWM Style 3644 (150 °C/1000 V)
CPR: Article number choice under www.lappkabel.com/cpr



Halogen-free

Cold-resistant

Temperature-resistant

Benefits

Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
Possesses insulating properties after combustion due to remaining SiO2 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

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- 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)
UV-resistant according to ISO 4892-2, method A, and ozone resistant acc. to EN 50396 resp. VDE 0473-396, method B
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
UL certification acc. CSA AWM standard CSA C22.2 No. 210-05: cUL AWM I A/B

Product Make-up

Fine-wire, tinned-copper conductor
Silicone-based insulation

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000993 ETIM 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^2
Minimum bending radius:	Fixed installation: 3 x outer diameter Occasional flexing: 6 x outer diameter
Nominal voltage:	UL: 1000 V IEC: U_0/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)

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 ≤ 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.

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Prices are net prices without VAT and surcharges. Sale to business customers only.
Cross-section 0.25 - 4 mm^2 only available as 100 m box
Other colours are available upon request

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PRODUCT INFORMATION

Article number	Conductor cross-section (mm^2)	Outer diameter [mm]	Core colour	Copper index (kg/km)	Weight (kg/km)
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1249500	0.25	2.25	green/yellow	2.4	6.8
1249520	0.25	2.25	black	2.4	6.8
1249540	0.25	2.25	blue	2.4	6.8
1249560	0.25	2.25	brown	2.4	6.8
1249580	0.25	2.25	red	2.4	6.8
1249600	0.25	2.25	white	2.4	6.8
1249620	0.25	2.25	grey	2.4	6.8
1249640	0.25	2.25	violet	2.4	6.8
1249660	0.25	2.25	dark blue	2.4	6.8
1249680	0.25	2.25	orange	2.4	6.8
1249700	0.25	2.25	yellow	2.4	6.8
1249720	0.25	2.25	green	2.4	6.8
1249502	0.5	2.45	green/yellow	4.8	10.9
1249522	0.5	2.45	black	4.8	10.9
1249542	0.5	2.45	blue	4.8	10.9
1249562	0.5	2.45	brown	4.8	10.9
1249582	0.5	2.45	red	4.8	10.9
1249602	0.5	2.45	white	4.8	10.9
1249622	0.5	2.45	grey	4.8	10.9
1249642	0.5	2.45	violet	4.8	10.9
1249662	0.5	2.45	dark blue	4.8	10.9
1249682	0.5	2.45	orange	4.8	10.9
1249702	0.5	2.45	yellow	4.8	10.9
1249722	0.5	2.45	green	4.8	10.9
1249503	0.75	2.75	green/yellow	7.2	14
1249523	0.75	2.75	black	7.2	14
1249543	0.75	2.75	blue	7.2	14
1249563	0.75	2.75	brown	7.2	14
1249583	0.75	2.75	red	7.2	14
1249603	0.75	2.75	white	7.2	14
1249623	0.75	2.75	grey	7.2	14
1249643	0.75	2.75	violet	7.2	14
1249663	0.75	2.75	dark blue	7.2	14

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1249683	0.75	2.75	orange	7.2	14
1249703	0.75	2.75	yellow	7.2	14
1249723	0.75	2.75	green	7.2	14
1249504	1.0	2.85	green/yellow	9.6	17.2
1249524	1.0	2.85	black	9.6	17.2
1249544	1.0	2.85	blue	9.6	17.2
1249564	1.0	2.85	brown	9.6	17.2
1249584	1.0	2.85	red	9.6	17.2
1249604	1.0	2.85	white	9.6	17.2
1249624	1.0	2.85	grey	9.6	17.2
1249644	1.0	2.85	violet	9.6	17.2
1249664	1.0	2.85	dark blue	9.6	17.2
1249684	1.0	2.85	orange	9.6	17.2
1249704	1.0	2.85	yellow	9.6	17.2
1249724	1.0	2.85	green	9.6	17.2
1249505	1.5	3.15	green/yellow	14.4	22.2
1249525	1.5	3.15	black	14.4	22.2
1249545	1.5	3.15	blue	14.4	22.2
1249565	1.5	3.15	brown	14.4	22.2
1249585	1.5	3.15	red	14.4	22.2
1249605	1.5	3.15	white	14.4	22.2
1249625	1.5	3.15	grey	14.4	22.2
1249645	1.5	3.15	violet	14.4	22.2
1249665	1.5	3.15	dark blue	14.4	22.2
1249685	1.5	3.15	orange	14.4	22.2
1249705	1.5	3.15	yellow	14.4	22.2
1249725	1.5	3.15	green	14.4	22.2
1249506	2.5	3.55	green/yellow	24	33.1
1249526	2.5	3.55	black	24	33.1
1249546	2.5	3.55	blue	24	33.1
1249566	2.5	3.55	brown	24	33.1
1249586	2.5	3.55	red	24	33.1
1249606	2.5	3.55	white	24	33.1
1249626	2.5	3.55	grey	24	33.1

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1249646	2.5	3.55	violet	24	33.1
1249666	2.5	3.55	dark blue	24	33.1
1249686	2.5	3.55	orange	24	33.1
1249706	2.5	3.55	yellow	24	33.1
1249726	2.5	3.55	green	24	33.1
1249507	4.0	4.15	green/yellow	38	49.5
1249527	4.0	4.15	black	38	49.5
1249547	4.0	4.15	blue	38	49.5
1249567	4.0	4.15	brown	38	49.5
1249587	4.0	4.15	red	38	49.5
1249607	4.0	4.15	white	38	49.5
1249627	4.0	4.15	grey	38	49.5
1249508	6.0	5.5	green/yellow	58	78.3
1249528	6.0	5.5	black	58	78.3
1249548	6.0	5.5	blue	58	78.3
1249568	6.0	5.5	brown	58	78.3
1249588	6.0	5.5	red	58	78.3
1249608	6.0	5.5	white	58	78.3
1249628	6.0	5.5	grey	58	78.3
1249509	10.0	7.65	green/yellow	96	132.7
1249529	10.0	7.65	black	96	132.7
1249549	10.0	7.65	blue	96	132.7
1249569	10.0	7.65	brown	96	132.7
1249589	10.0	7.65	red	96	132.7
1249609	10.0	7.65	white	96	132.7
1249510	16.0	8.45	green/yellow	154	192
1249530	16.0	8.45	black	154	192
1249550	16.0	8.45	blue	154	192
1249570	16.0	8.45	brown	154	192
1249590	16.0	8.45	red	154	192
1249610	16.0	8.45	white	154	192
1249511	25.0	9.85	green/yellow	240	288.9
1249531	25.0	9.85	black	240	288.9
1249551	25.0	9.85	blue	240	288.9

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1249591	25.0	9.85	red	240	288.9
1249611	25.0	9.85	white	240	288.9
1249532	35.0	10.95	black	336	386
1249592	35.0	10.95	red	336	386
1249533	50.0	13.5	black	480	557.6
1249593	50.0	13.5	red	480	557.6
1249534	70.0	15.5	black	672.2	775.2
1249535	95.0	17.5	black	912	1,004.4

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