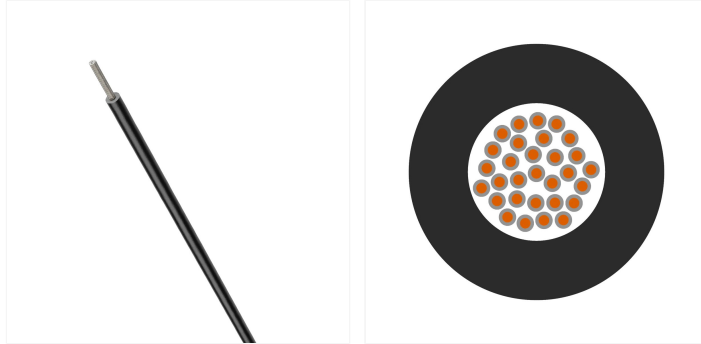


**ÖLFLEX® HEAT 180 SiF 1X0,5 BK****Article No.:** 0048001Single core; 1X0.5; black; U<sub>0</sub>/U: 300/500 V; Silicone; -50°C - 180°C; Fixed installation**CE****Details****Benefits**

- Withstands temperatures up to +180°C. Adequate ventilation is a prerequisite, as silicone cables prematurely reduce the mechanical properties from +100°C, without the need for oxygen.
- Halogen free product that does not produce corrosive acids or hazardous gases in the event of a fire.
- Low corrosiveness of gases in the event of fire (according to DIN EN IEC 60754-2).
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- Insulating properties after flame treatment when static, thanks to core insulation made of silicone compound.
- Different core insulation colours available.

**Application**

- For wiring circuits inside machines.
- For fixed installation.
- Can be used in dry and damp spaces.
- Suitable for light mechanical stress.
- Resistant to many oils, plant and animal fats and a wide range of chemicals.

**Notes**

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without surcharges and VAT. Sales only to business customers.

### Remarks

Adequate ventilation must be ensured, since the mechanical properties of silicone cables prematurely decrease from +100°C in the absence of air

### Technical Data

#### General information

Brand	ÖLFLEX®
Product type	Single core
Weight	9 kg/km
Copper index	4.8 kg/km
Industry segment	Construction Machinery Power Grids HVAC Processing Industries Rolling Stock Ships & boats

#### Electrical parameters

Nominal voltage	$U_0/U$ : 300/500 V AC rms according to IEC
Test voltage	2 kV
Max. conductor resistance at 20°C	40.1 $\Omega$ /km

#### Product design

Cable dimension	1X0.5
Nominal conductor cross-section (metric)	0.5 mm <sup>2</sup>
Conductor material	Tin-plated copper

Conductor design	IEC 60228 class 5: fine-wire
Number of cores	1
Nominal outer diameter	2.1 mm
Shape of cable	Round
Core insulation basic material	Silicone
Single core colour	black
Single core identification	Single-coloured

### Product features

Application area	Fixed installation
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in mm, fixed installation	12.6 mm
Minimum bending radius with careful bending	3 x outer diameter
Temperature, fixed installation	-50 °C to 180 °C max. conductor temperature:
Short-term temperature peaks	200 °C
Short term temperature max.	200 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
UV-resistant	No
Halogenfree	Yes
Halogen-free according to	IEC 60754-1
Oil-resistant	No
PWIS-free	No

### Certifications and standards

CE marked	Yes
EAC-certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ064.В.00130/20
UL recognized	No
UL listed	No

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cUR recognized	No
cUL listed	No
CSA certified	No
VDE certified	No

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**ÖLFLEX® HEAT 180 SiF**

Article No.	Name	Nominal conductor cross-section (metric)	Single core colour	Nominal core diameter	Copper index	Weight
0047000	ÖLFLEX® HEAT 180 SiF 1X0,25 GNYE	0.25 mm <sup>2</sup>	green/yellow		2.4 kg/km	5 kg/km
0047001	ÖLFLEX® HEAT 180 SiF 1X0,25 BK	0.25 mm <sup>2</sup>	black		2.4 kg/km	5 kg/km
0047002	ÖLFLEX® HEAT 180 SiF 1X0,25 BU	0.25 mm <sup>2</sup>	blue		2.4 kg/km	6 kg/km
0047003	ÖLFLEX® HEAT 180 SiF 1X0,25 BN	0.25 mm <sup>2</sup>	brown		2.4 kg/km	5 kg/km
0047005	ÖLFLEX® HEAT 180 SiF 1X0,25 YE	0.25 mm <sup>2</sup>	yellow		2.4 kg/km	5 kg/km
0047006	ÖLFLEX® HEAT 180 SiF 1X0,25 GN	0.25 mm <sup>2</sup>	green		2.4 kg/km	5 kg/km
0047007	ÖLFLEX® HEAT 180 SiF 1X0,25 VT	0.25 mm <sup>2</sup>	violet		2.4 kg/km	5 kg/km
0047008	ÖLFLEX® HEAT 180 SiF 1X0,25 PK	0.25 mm <sup>2</sup>	pink		2.4 kg/km	5 kg/km
0047009	ÖLFLEX® HEAT 180 SiF 1X0,25 OG	0.25 mm <sup>2</sup>	orange		2.4 kg/km	5 kg/km
0047104	ÖLFLEX® HEAT 180 SiF 1X0,25 RD	0.25 mm <sup>2</sup>	red		2.4 kg/km	5 kg/km
0047105	ÖLFLEX® HEAT 180 SiF 1X0,25 WH	0.25 mm <sup>2</sup>	white		2.4 kg/km	5 kg/km
0047106	ÖLFLEX® HEAT 180 SiF 1X0,25 GY	0.25 mm <sup>2</sup>	grey		2.4 kg/km	5 kg/km
0048000	ÖLFLEX® HEAT 180 SiF 1X0,5 GNYE	0.5 mm <sup>2</sup>	green/yellow		4.8 kg/km	9 kg/km
0048001	ÖLFLEX® HEAT 180 SiF 1X0,5 BK	0.5 mm <sup>2</sup>	black		4.8 kg/km	9 kg/km
0048002	ÖLFLEX® HEAT 180 SiF 1X0,5 BU	0.5 mm <sup>2</sup>	blue		4.8 kg/km	9 kg/km
0048003	ÖLFLEX® HEAT 180 SiF 1X0,5 BN	0.5 mm <sup>2</sup>	brown		4.8 kg/km	9 kg/km
0048005	ÖLFLEX® HEAT 180 SiF 1X0,5 YE	0.5 mm <sup>2</sup>	yellow		4.8 kg/km	9 kg/km
0048006	ÖLFLEX® HEAT 180 SiF 1X0,5 GN	0.5 mm <sup>2</sup>	green		4.8 kg/km	9 kg/km
0048007	ÖLFLEX® HEAT 180 SiF 1X0,5 VT	0.5 mm <sup>2</sup>	violet		4.8 kg/km	9 kg/km
0048008	ÖLFLEX® HEAT 180 SiF 1X0,5 PK	0.5 mm <sup>2</sup>	pink		4.8 kg/km	9 kg/km
0048009	ÖLFLEX® HEAT 180 SiF 1X0,5 OG	0.5 mm <sup>2</sup>	orange		4.8 kg/km	9 kg/km
0048104	ÖLFLEX® HEAT 180 SiF 1X0,5 RD	0.5 mm <sup>2</sup>	red		4.8 kg/km	9 kg/km
0048105	ÖLFLEX® HEAT 180 SiF 1X0,5 WH	0.5 mm <sup>2</sup>	white		4.8 kg/km	9 kg/km
0048106	ÖLFLEX® HEAT 180 SiF 1X0,5 GY	0.5 mm <sup>2</sup>	grey		4.8 kg/km	9 kg/km
0049000	ÖLFLEX® HEAT 180 SiF 1X0,75 GNYE	0.75 mm <sup>2</sup>	green/yellow		7.2 kg/km	12 kg/km
0049001	ÖLFLEX® HEAT 180 SiF 1X0,75 BK	0.75 mm <sup>2</sup>	black		7.2 kg/km	12 kg/km
0049002	ÖLFLEX® HEAT 180 SiF 1X0,75 BU	0.75 mm <sup>2</sup>	blue		7.2 kg/km	12 kg/km
0049003	ÖLFLEX® HEAT 180 SiF 1X0,75 BN	0.75 mm <sup>2</sup>	brown		7.2 kg/km	12 kg/km
0049005	ÖLFLEX® HEAT 180 SiF 1X0,75 YE	0.75 mm <sup>2</sup>	yellow		7.2 kg/km	12 kg/km
0049006	ÖLFLEX® HEAT 180 SiF 1X0,75 GN	0.75 mm <sup>2</sup>	green		7.2 kg/km	12 kg/km

Article No.	Name	Nominal conductor cross-section (metric)	Single core colour	Nominal core diameter	Copper index	Weight
0049007	ÖLFLEX® HEAT 180 SiF 1X0,75 VT	0.75 mm <sup>2</sup>	violet		7.2 kg/km	12 kg/km
0049008	ÖLFLEX® HEAT 180 SiF 1X0,75 PK	0.75 mm <sup>2</sup>	pink		7.2 kg/km	12 kg/km
0049009	ÖLFLEX® HEAT 180 SiF 1X0,75 OG	0.75 mm <sup>2</sup>	orange		7.2 kg/km	12 kg/km
0049104	ÖLFLEX® HEAT 180 SiF 1X0,75 RD	0.75 mm <sup>2</sup>	red		7.2 kg/km	12 kg/km
0049105	ÖLFLEX® HEAT 180 SiF 1X0,75 WH	0.75 mm <sup>2</sup>	white		7.2 kg/km	12 kg/km
0049106	ÖLFLEX® HEAT 180 SiF 1X0,75 GY	0.75 mm <sup>2</sup>	grey		7.2 kg/km	12 kg/km
0050000	ÖLFLEX® HEAT 180 SiF 1X1 GNYE	1 mm <sup>2</sup>	green/yellow		9.6 kg/km	15 kg/km
0050001	ÖLFLEX® HEAT 180 SiF 1X1 BK	1 mm <sup>2</sup>	black		9.6 kg/km	15 kg/km
0050002	ÖLFLEX® HEAT 180 SiF 1X1 BU	1 mm <sup>2</sup>	blue		9.6 kg/km	15 kg/km
0050003	ÖLFLEX® HEAT 180 SiF 1X1 BN	1 mm <sup>2</sup>	brown		9.6 kg/km	15 kg/km
0050005	ÖLFLEX® HEAT 180 SiF 1X1 YE	1 mm <sup>2</sup>	yellow		9.6 kg/km	15 kg/km
0050006	ÖLFLEX® HEAT 180 SiF 1X1 GN	1 mm <sup>2</sup>	green		9.6 kg/km	15 kg/km
0050007	ÖLFLEX® HEAT 180 SiF 1X1 VT	1 mm <sup>2</sup>	violet		9.6 kg/km	15 kg/km
0050008	ÖLFLEX® HEAT 180 SiF 1X1 PK	1 mm <sup>2</sup>	pink		9.6 kg/km	15 kg/km
0050009	ÖLFLEX® HEAT 180 SiF 1X1 OG	1 mm <sup>2</sup>	orange		9.6 kg/km	15 kg/km
0050104	ÖLFLEX® HEAT 180 SiF 1X1 RD	1 mm <sup>2</sup>	red		9.6 kg/km	15 kg/km
0050105	ÖLFLEX® HEAT 180 SiF 1X1 WH	1 mm <sup>2</sup>	white		9.6 kg/km	15 kg/km
0050106	ÖLFLEX® HEAT 180 SiF 1X1 GY	1 mm <sup>2</sup>	grey		9.6 kg/km	15 kg/km
0051000	ÖLFLEX® HEAT 180 SiF 1X1,5 GNYE	1.5 mm <sup>2</sup>	green/yellow		14.4 kg/km	20 kg/km
0051001	ÖLFLEX® HEAT 180 SiF 1X1,5 BK	1.5 mm <sup>2</sup>	black		14.4 kg/km	20 kg/km
0051002	ÖLFLEX® HEAT 180 SiF 1X1,5 BU	1.5 mm <sup>2</sup>	blue		14.4 kg/km	20 kg/km
0051003	ÖLFLEX® HEAT 180 SiF 1X1,5 BN	1.5 mm <sup>2</sup>	brown		14.4 kg/km	20 kg/km
0051005	ÖLFLEX® HEAT 180 SiF 1X1,5 YE	1.5 mm <sup>2</sup>	yellow		14.4 kg/km	20 kg/km
0051006	ÖLFLEX® HEAT 180 SiF 1X1,5 GN	1.5 mm <sup>2</sup>	green		14.4 kg/km	20 kg/km
0051007	ÖLFLEX® HEAT 180 SiF 1X1,5 VT	1.5 mm <sup>2</sup>	violet		14.4 kg/km	20 kg/km
0051008	ÖLFLEX® HEAT 180 SiF 1X1,5 PK	1.5 mm <sup>2</sup>	pink		14.4 kg/km	20 kg/km
0051009	ÖLFLEX® HEAT 180 SiF 1X1,5 OG	1.5 mm <sup>2</sup>	orange		14.4 kg/km	20 kg/km
0051104	ÖLFLEX® HEAT 180 SiF 1X1,5 RD	1.5 mm <sup>2</sup>	red		14.4 kg/km	20 kg/km
0051105	ÖLFLEX® HEAT 180 SiF 1X1,5 WH	1.5 mm <sup>2</sup>	white		14.4 kg/km	20 kg/km
0051106	ÖLFLEX® HEAT 180 SiF 1X1,5 GY	1.5 mm <sup>2</sup>	grey		14.4 kg/km	20 kg/km

Article No.	Name	Nominal conductor cross-section (metric)	Single core colour	Nominal core diameter	Copper index	Weight
0052000	ÖLFLEX® HEAT 180 SiF 1X2,5 GNYE	2.5 mm <sup>2</sup>	green/yellow		24 kg/km	30 kg/km
0052001	ÖLFLEX® HEAT 180 SiF 1X2,5 BK	2.5 mm <sup>2</sup>	black		24 kg/km	30 kg/km
0052002	ÖLFLEX® HEAT 180 SiF 1X2,5 BU	2.5 mm <sup>2</sup>	blue		24 kg/km	32 kg/km
0052003	ÖLFLEX® HEAT 180 SiF 1X2,5 BN	2.5 mm <sup>2</sup>	brown		24 kg/km	30 kg/km
0052005	ÖLFLEX® HEAT 180 SiF 1X2,5 YE	2.5 mm <sup>2</sup>	yellow		24 kg/km	30 kg/km
0052006	ÖLFLEX® HEAT 180 SiF 1X2,5 GN	2.5 mm <sup>2</sup>	green		24 kg/km	30 kg/km
0052007	ÖLFLEX® HEAT 180 SiF 1X2,5 VT	2.5 mm <sup>2</sup>	violet		24 kg/km	30 kg/km
0052104	ÖLFLEX® HEAT 180 SiF 1X2,5 RD	2.5 mm <sup>2</sup>	red		24 kg/km	30 kg/km
0052105	ÖLFLEX® HEAT 180 SiF 1X2,5 WH	2.5 mm <sup>2</sup>	white		24 kg/km	30 kg/km
0052106	ÖLFLEX® HEAT 180 SiF 1X2,5 GY	2.5 mm <sup>2</sup>	grey		24 kg/km	30 kg/km
0053000	ÖLFLEX® HEAT 180 SiF 1X4 GNYE	4 mm <sup>2</sup>	green/yellow		38 kg/km	48 kg/km
0053001	ÖLFLEX® HEAT 180 SiF 1X4 BK	4 mm <sup>2</sup>	black		38 kg/km	50 kg/km
0053002	ÖLFLEX® HEAT 180 SiF 1X4 BU	4 mm <sup>2</sup>	blue		38 kg/km	48 kg/km
0053003	ÖLFLEX® HEAT 180 SiF 1X4 BN	4 mm <sup>2</sup>	brown		38 kg/km	48 kg/km
0053005	ÖLFLEX® HEAT 180 SiF 1X4 YE	4 mm <sup>2</sup>	yellow		38 kg/km	48 kg/km
0053006	ÖLFLEX® HEAT 180 SiF 1X4 GN	4 mm <sup>2</sup>	green		38 kg/km	48 kg/km
0053009	ÖLFLEX® HEAT 180 SiF 1X4 OG	4 mm <sup>2</sup>	orange		38 kg/km	48 kg/km
0053104	ÖLFLEX® HEAT 180 SiF 1X4 RD	4 mm <sup>2</sup>	red		38 kg/km	51 kg/km
0053105	ÖLFLEX® HEAT 180 SiF 1X4 WH	4 mm <sup>2</sup>	white		38 kg/km	48 kg/km
0053106	ÖLFLEX® HEAT 180 SiF 1X4 GY	4 mm <sup>2</sup>	grey		38 kg/km	48 kg/km
0054000	ÖLFLEX® HEAT 180 SiF 1X6 GNYE	6 mm <sup>2</sup>	green/yellow		58 kg/km	71 kg/km
0054001	ÖLFLEX® HEAT 180 SiF 1X6 BK	6 mm <sup>2</sup>	black		58 kg/km	73 kg/km
0054002	ÖLFLEX® HEAT 180 SiF 1X6 BU	6 mm <sup>2</sup>	blue		58 kg/km	71 kg/km
0054003	ÖLFLEX® HEAT 180 SiF 1X6 BN	6 mm <sup>2</sup>	brown		58 kg/km	71 kg/km
0054005	ÖLFLEX® HEAT 180 SiF 1X6 YE	6 mm <sup>2</sup>	yellow		58 kg/km	71 kg/km
0054006	ÖLFLEX® HEAT 180 SiF 1X6 GN	6 mm <sup>2</sup>	green		58 kg/km	71 kg/km
0054104	ÖLFLEX® HEAT 180 SiF 1X6 RD	6 mm <sup>2</sup>	red		58 kg/km	73 kg/km
0054105	ÖLFLEX® HEAT 180 SiF 1X6 WH	6 mm <sup>2</sup>	white		58 kg/km	71 kg/km
0054106	ÖLFLEX® HEAT 180 SiF 1X6 GY	6 mm <sup>2</sup>	grey		58 kg/km	71 kg/km
0055000	ÖLFLEX® HEAT 180 SiF 1X10 GNYE	10 mm <sup>2</sup>	green/yellow		96 kg/km	118 kg/km

Article No.	Name	Nominal conductor cross-section (metric)	Single core colour	Nominal core diameter	Copper index	Weight
0055001	ÖLFLEX® HEAT 180 SiF 1X10 BK	10 mm <sup>2</sup>	black		96 kg/km	118 kg/km
0055002	ÖLFLEX® HEAT 180 SiF 1X10 BU	10 mm <sup>2</sup>	blue		96 kg/km	118 kg/km
0055003	ÖLFLEX® HEAT 180 SiF 1X10 BN	10 mm <sup>2</sup>	brown		96 kg/km	118 kg/km
0055009	ÖLFLEX® HEAT 180 SiF 1X10 OG	10 mm <sup>2</sup>	orange		96 kg/km	118 kg/km
0055104	ÖLFLEX® HEAT 180 SiF 1X10 RD	10 mm <sup>2</sup>	red		96 kg/km	118 kg/km
0055105	ÖLFLEX® HEAT 180 SiF 1X10 WH	10 mm <sup>2</sup>	white		96 kg/km	118 kg/km
0055106	ÖLFLEX® HEAT 180 SiF 1X10 GY	10 mm <sup>2</sup>	grey		96 kg/km	118 kg/km
0056000	ÖLFLEX® HEAT 180 SiF 1X16 GNYE	16 mm <sup>2</sup>	green/yellow		154 kg/km	177 kg/km
0056001	ÖLFLEX® HEAT 180 SiF 1X16 BK	16 mm <sup>2</sup>	black		154 kg/km	177 kg/km
0056002	ÖLFLEX® HEAT 180 SiF 1X16 BU	16 mm <sup>2</sup>	blue		154 kg/km	177 kg/km
0056104	ÖLFLEX® HEAT 180 SiF 1X16 RD	16 mm <sup>2</sup>	red		154 kg/km	177 kg/km
0056105	ÖLFLEX® HEAT 180 SiF 1X16 WH	16 mm <sup>2</sup>	white		154 kg/km	177 kg/km
0056106	ÖLFLEX® HEAT 180 SiF 1X16 GY	16 mm <sup>2</sup>	grey		154 kg/km	177 kg/km
0057000	ÖLFLEX® HEAT 180 SiF 1X25 GNYE	25 mm <sup>2</sup>	green/yellow		240 kg/km	277 kg/km
0057001	ÖLFLEX® HEAT 180 SiF 1X25 BK	25 mm <sup>2</sup>	black		240 kg/km	277 kg/km
0057002	ÖLFLEX® HEAT 180 SiF 1X25 BU	25 mm <sup>2</sup>	blue		240 kg/km	277 kg/km
0057104	ÖLFLEX® HEAT 180 SiF 1X25 RD	25 mm <sup>2</sup>	red		240 kg/km	277 kg/km
0057106	ÖLFLEX® HEAT 180 SiF 1X25 GY	25 mm <sup>2</sup>	grey		240 kg/km	277 kg/km
0058000	ÖLFLEX® HEAT 180 SiF 1X35 GNYE	35 mm <sup>2</sup>	green/yellow		336 kg/km	374 kg/km
0058001	ÖLFLEX® HEAT 180 SiF 1X35 BK	35 mm <sup>2</sup>	black		336 kg/km	374 kg/km
0058002	ÖLFLEX® HEAT 180 SiF 1X35 BU	35 mm <sup>2</sup>	blue		336 kg/km	399 kg/km
0058104	ÖLFLEX® HEAT 180 SiF 1X35 RD	35 mm <sup>2</sup>	red		336 kg/km	374 kg/km
0059000	ÖLFLEX® HEAT 180 SiF 1X50 GNYE	50 mm <sup>2</sup>	green/yellow		480 kg/km	530 kg/km
0059001	ÖLFLEX® HEAT 180 SiF 1X50 BK	50 mm <sup>2</sup>	black		480 kg/km	530 kg/km
0059104	ÖLFLEX® HEAT 180 SiF 1X50 RD	50 mm <sup>2</sup>	red		480 kg/km	530 kg/km
0060001	ÖLFLEX® HEAT 180 SiF 1X70 BK	70 mm <sup>2</sup>	black		672 kg/km	724 kg/km
0060002	ÖLFLEX® HEAT 180 SiF 1X70 BU	70 mm <sup>2</sup>	blue		672 kg/km	724 kg/km
0061000	ÖLFLEX® HEAT 180 SiF 1X95 GNYE	95 mm <sup>2</sup>	green/yellow		912 kg/km	982 kg/km
0061001	ÖLFLEX® HEAT 180 SiF 1X95 BK	95 mm <sup>2</sup>	black		912 kg/km	982 kg/km
0061105	ÖLFLEX® HEAT 180 SiF 1X95 WH	95 mm <sup>2</sup>	white		912 kg/km	982 kg/km

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Article No.	Name	Nominal conductor cross-section (metric)	Single core colour	Nominal core diameter	Copper index	Weight
0062000	ÖLFLEX® HEAT 180 SiF 1X120 GNYE	120 mm <sup>2</sup>	green/yellow		1152 kg/km	1219 kg/km
0062001	ÖLFLEX® HEAT 180 SiF 1X120 BK	120 mm <sup>2</sup>	black		1152 kg/km	1219 kg/km
0063001	ÖLFLEX® HEAT 180 SiF 1X150 BK	150 mm <sup>2</sup>	black		1440 kg/km	1524 kg/km
0064001	ÖLFLEX® HEAT 180 SiF 1X185 BK	185 mm <sup>2</sup>	black		1776 kg/km	1915 kg/km

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