

# ÖLFLEX® HEAT 180 MS/180 C MS

High temperature silicone control cable with North American approvals

LAPP KABEL STUTTGART ÖLFLEX® HEAT 180 MS

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ÖLFLEX® HEAT 180 MS is a high temperature silicone cable with North American approvals. It has a temperature rating of 180°C and is halogen-free. ÖLFLEX® HEAT 180 C MS is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed.

## Recommended applications

Foundries; steel mills; glass factories; furnaces; commercial baking equipment; other high-temperature applications

## Approvals



Cable attributes		page 648	
OIL	OR-02	FLAME	FR-02
MOTION	FL-01	MECH.	MP-01

## Unshielded construction

**Conductors:** finely stranded tinned copper

**Insulation:** silicone

**Jacket:** silicone; black

## Shielded construction

**Conductors:** finely stranded tinned copper

**Insulation:** silicone

**Shielding:** tinned copper braid (85% coverage); plastic foil wrap

**Jacket:** silicone; black

## Application advantage

- Rated for use up to 180°C and can handle rapid increases in heat
- Excellent low temperature rating of -50°C
- Passes FT1 vertical flame test
- Halogen-free & UV-resistant jacket
- Resistant to various oils, alcohols, vegetable & animal fats, and chemical substances

## Complete the installation



SKINDICHT® CN  
page 530



EPIC®  
connectors  
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## Technical data

<b>Minimum bend radius:</b>		<b>Conductor stranding:</b>	Class 5 fine wire
- unshielded:	4 x cable diameter	<b>Color code:</b>	
- shielded:	6 x cable diameter	- up to 5c:	VDE 0293-308: chart 6, page 681
<b>Temperature range:</b>		- 6c & higher:	black with white numbers, plus green/yellow ground
- UL:	-50°C to +150°C	<b>Approvals:</b>	UL: AWM 4476
- VDE:	-50°C to +180°C	Attributes:	NFPA 79
<b>Nominal voltage:</b>	600V	Canada:	cRU AWM II A/B FT1
<b>Test voltage:</b>	2000V	Additional:	CE & RoHS

High temperature cable

ÖLFLEX® HEAT 180 MS

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINDICHT® CN
		in	mm	lbs/mft	lbs/mft	PG thread
<b>20 AWG (0.5 mm<sup>2</sup>)</b>						
0046600	2	0.292	7.4	7	45	52032520
0046601	3	0.307	7.8	10	52	52032520
00466023	4	0.335	8.5	14	62	52032520
00466033	5	0.362	9.2	17	74	52032525
0046604	7	0.390	9.9	24	88	52032525
<b>18 AWG (1 mm<sup>2</sup>)</b>						
0046612	2	0.323	8.2	13	58	52032520
0046613	3	0.343	8.7	20	68	52032520
00466143	4	0.370	9.4	26	83	52032525
00466153	5	0.406	10.3	33	99	52032525
0046616	7	0.437	11.1	46	121	52032540
0046617	12	0.587	14.9	78	214	52032560
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
0046618	2	0.347	8.8	20	70	52032520
0046619	3	0.366	9.3	30	84	52032525
00466203	4	0.398	10.1	39	103	52032525
00466213	5	0.437	11.1	49	124	52032540

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINDICHT® CN
		in	mm	lbs/mft	lbs/mft	PG thread
0046622	7	0.473	12.0	69	153	52032540
0046623	12	0.634	16.1	117	272	52032560
0046625	18	0.741	18.8	175	381	52032560
0046626	25	0.902	22.9	242	562	52032570
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
0046628	2	0.378	9.6	33	91	52032525
0046629	3	0.402	10.2	49	111	52032525
00466303	4	0.437	11.1	65	137	52032540
00466313	5	0.481	12.2	81	167	52032540
<b>12 AWG (4 mm<sup>2</sup>)</b>						
0046633	3	0.453	11.5	78	165	52032540
00466343	4	0.496	12.6	104	206	52032540
00466353	5	0.559	14.2	130	261	52032560
<b>10 AWG (6 mm<sup>2</sup>)</b>						
0046636	3	0.587	14.9	116	246	52032560
00466373	4	0.646	16.4	155	308	52032560
00466383	5	0.709	18.0	194	378	52032560

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Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINDICHT® CN
		in	mm	lbs/mft	lbs/mft	PG thread
<b>20 AWG (0.5 mm<sup>2</sup>)</b>						
0046701	3	0.339	8.6	30	67	52032520
0046702	4	0.366	9.3	38	82	52032525
0046703	5	0.394	10.0	41	92	52032525
<b>18 AWG (1 mm<sup>2</sup>)</b>						
0046708	2	0.355	9.0	33	70	52032520
0046709	3	0.374	9.5	44	88	52032525
0046710	4	0.402	10.2	51	102	52032525
0046711	5	0.433	11.0	62	122	52032525
0046712	7	0.469	11.9	80	153	52032540
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
0046716	2	0.378	9.6	44	85	52032525
0046717	3	0.398	10.1	54	102	52032525
0046718	4	0.429	10.9	68	125	52032525
0046719	5	0.465	11.8	83	149	52032540
0046720	7	0.504	12.8	107	189	52032540

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINDICHT® CN
		in	mm	lbs/mft	lbs/mft	PG thread
0046721	12	0.666	16.9	165	290	52032560
0046723	18	0.772	19.6	233	403	52032570
0046724	25	0.942	23.9	334	560	52032570
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
0046728	3	0.433	11.0	78	132	52032525
0046729	4	0.469	11.9	99	164	52032540
0046730	5	0.508	12.9	120	196	52032540
<b>12 AWG (4 mm<sup>2</sup>)</b>						
0046734	3	0.485	12.3	112	175	52032540
0046735	4	0.528	13.4	143	218	52032540
0046736	5	0.587	14.9	173	261	52032560
<b>10 AWG (6 mm<sup>2</sup>)</b>						
0046740	4	0.678	17.2	204	324	52032560
0046741	5	0.737	18.7	248	390	52032560
<b>8 AWG (10 mm<sup>2</sup>)</b>						
0046742	4	0.898	22.8	342	539	52032570

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.