

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
page 284

Technical data

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

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.

for current information see: www.lappusa.com • www.lappcanada.com

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
20 AWG (0.5 mm²)						
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
18 AWG (1 mm²)						
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
16 AWG (1.5 mm²)						
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
14 AWG (2.5 mm²)						
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
12 AWG (4 mm²)						
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
10 AWG (6 mm²)						
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
20 AWG (0.5 mm²)						
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
18 AWG (1 mm²)						
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
16 AWG (1.5 mm²)						
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
14 AWG (2.5 mm²)						
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
12 AWG (4 mm²)						
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
10 AWG (6 mm²)						
0046740	4	0.678	17.2	204	324	52032560
0046741	5	0.737	18.7	248	390	52032560
8 AWG (10 mm²)						
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.