

Expanded ambient temperatures Silicone cables (-50°C to +180°C)















ÖLFLEX® HEAT 180 EWKF C

Screened silicone cables with increased mechanical characteristics

LAPP KABEL STUTTGART ÖLFLEX® HEAT 180 EWKF C CE

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Benefits

· Longer durability in harsh applications than conventional silicone cables

Proven notch-resistant EWKF quality **EMC** compliant copper screening

- Notch and tear-resistant outer sheath material reduces mechanical damage
- · Copper braiding screens the cable against electromagnetic interference
- Flexibility simplifies installation where space is limited
- Due to the use of special additives in EWKF silicone, armoured cable versions will not be required

Application range

- · Areas with high ambient temperatures and occasionally mechanical stress
- Typical fields of application
- Steel, ceramic and iron works
- Bakery equipment and industrial furnaces
- Electric motor industry
- Sauna/solarium construction
- Thermal and heating elements
- Lighting technology
- Ventilator engineering
- Air-conditioning technology
- Galvanisation technology

Product features

- · Halogen-free and flame-retardant (IEC 60332-1-2)
- Good hydrolysis and UV-resistance
- Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances
- EWKF:

Initial tear propagation and notch resist-

■ Product make-up

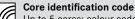
- Fine-wire, tinned-copper conductor
- Cores twisted together
- Silicone-based core insulation
- Silicone-based inner sheath
- Tinned-copper screen braiding, interleaved plastic foil wrapping
- Outer sheath: silicone-based EWKF, notchresistant, black

Technical data

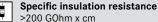


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ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable



Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers



Conductor stranding

Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5

Minimum bending radius

Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter

Nominal voltage U₀/U: 300/500 V

Test voltage 2000 V

Protective conductor

G = with GN-YE protective conductor X = without protective conductor

(adequate ventilation required)

Temperature range -50 °C to +180 °C

number m	nm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)				
ÖLFLEX® HEAT 180 EWKF C								
0046301	2 X 0.75	8.6	37.5	104				
0046302	3 G 0.75	8.9	46.1	118				
00463033	4 G 0.75	10.2	57.3	152				
00463043	5 G 0.75	10.9	67.3	176				
0046307	2 X 1	9.0	43.0	116				
0046308	3 G 1	9.7	55.7	142				
00463093	4 G 1	10.9	67.8	175				
00463103	5 G 1	11.6	80.3	203				
0046312	7 G 1	12.3	113.9	250				
0046313	2 X 1.5	10.8	58.0	166				
0046314	3 G 1.5	11.2	74.0	188				

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
00463153	4 G 1.5	12.0	91.4	222
00463163	5 G 1.5	12.8	121.7	273
0046318	7 G 1.5	13.6	157.2	341
0046320	3 G 2.5	12.8	121.2	271
00463213	4 G 2.5	13.9	150.9	328
00463223	5 G 2.5	14.8	180.5	387
00463273	4 G 4	16.0	218.0	448
00463283	5 G 4	17.2	262.9	531
0046330	3 G 6	16.4	240.5	489
00463313	4 G 6	17.9	304.7	591
00463323	5 G 6	19.4	370.0	706

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. 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: $coil \le 30$ 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 are not to scale and do not represent detailed images of the respective products.

■ Similar products

- ÖLFLEX® HEAT 180 H05SS-F EWKF refer to page 167
- ÖLFLEX® HEAT 180 EWKF refer to page 170

Accessories

- SKINTOP® MS-SC-M refer to page 674
- SKINTOP® MS-SC refer to page 733
- SKINTOP® MS-M BRUSH refer to page 675