

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® HEAT 180 EWKF C</b>	12.09.2012

Screened silicone cables with increased mechanical characteristics  
 Longer durability in harsh applications than conventional silicone cables  
 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



#### Info

Proven notch-resistant EWKF quality  
 EMC compliant copper screening

#### Application range

Areas with high ambient temperatures and very high mechanical stress  
 Typical fields of application - Steel, cement, 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

#### Design

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, notch-resistant, black (RAL 9005)

#### 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: Increased initial tear propagation and notch resistance

#### Remark

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 Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://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 are not to scale and do not represent detailed images of the respective products.

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### Technical Data

Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Specific insulation resistance:	>200 GOhm x cm
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:	U <sub>0</sub> /U: 300/500 V
Test voltage:	2000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	-50 °C to +180 °C (adequate ventilation required)

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Part number	Number of cores and mm <sup>2</sup> 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
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