ÖLFLEX® HEAT 180 EWKF

Silicone cables with increased mechanical characteristics

ÖLFLEX® HEAT 180 EWKF - silicone power and control cable, tear and notch resistant, for use in machines, plant construction and toolbuilding, suitable for +180 °C

Info

Proven notch-resistant EWKF quality
Further dimensions/colours on request
CPR: Article number choice under www.lappkabel.com/cpr

Halogen-free

Cold-resistant

Temperature-resistant

UV-resistant

Benefits

Longer durability in harsh applications than conventional silicone cables
Notch and tear-resistant silicone compounds reduce damage due to mechanical stress
Due to the use of special additives in EWKF silicone, armoured cable versions will not be required
Flexibility simplifies installation where space is limited
Possesses insulating properties after combustion due to remaining SiO2 ash on the conductor

Application range

Areas with high ambient temperatures and occasionally mechanical stress
Typical fields of application
- Steel, ceramic and iron works

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- 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

EWKF:
Initial tear propagation and notch resistance
Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2), 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
Adequate ventilation must be ensured, since the mechanical properties of silicone cables decrease from +100 °C in the absence of air

Norm references / Approvals

Based on EN 50525-2-83

Product Make-up

Fine-wire, tinned-copper conductor
Core insulation: based on EWKF silicone
Cores twisted together
Outer sheath: silicone-based EWKF, notch-resistant, black

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC001578 ETIM 6.0 Class-Description: Flexible cable
Core identification code:	Colours 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: 15 x outer diameter Fixed installation: 4 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
Temperature range:	-60 °C to +180 °C (adequate ventilation required)

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

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Please find our standard lengths at: 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 and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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0046500	2 X 0.75	6.4	15	49
0046501	3 G 0.75	6.9	22	60
00465023	4 G 0.75	7.6	29	76
00465033	5 G 0.75	8.5	36	96
0046506	2 X 1.0	6.8	20	56
0046507	3 G 1.0	7.1	29	68
00465083	4 G 1.0	7.9	39	88
00465093	5 G 1.0	8.8	48	110
0046110	7 G 1.0	9.5	67.2	137
0046511	2 X 1.5	8	29	77
0046512	3 G 1.5	8.4	43	94
00465133	4 G 1.5	9.5	58	117
00465143	5 G 1.5	10.4	72	143
0046115	7 G 1.5	11	101	180
0046116	12 G 1.5	14.9	173	319
0046117	16 G 1.5	17.1	230.4	424
0046119	24 G 1.5	21	345.6	637
0046520	2 X 2.5	9.4	48	110
0046521	3 G 2.5	9.8	72	146
00465223	4 G 2.5	11.1	96	181
00465233	5 G 2.5	11.9	120	222
0046131	3 G 4.0	11.5	114	213
00461323	4 G 4.0	12.5	152	267
00461333	5 G 4.0	13.9	190	334
0046141	3 G 6.0	13.2	174	297
00461423	4 G 6.0	14.7	232	381
00461433	5 G 6.0	16.5	290	481

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