

ÖLFLEX® HEAT 180 EWKF C

Screened silicone cables with increased mechanical characteristics

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

Info

Proven notch-resistant EWKF quality

EMC compliant copper screening

CPR: Article number choice under www.lappkabel.com/cpr



Halogen-free



Cold-resistant



Interference signals



Temperature-resistant



UV-resistant

Benefits

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

Last Update (24.04.2024)

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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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

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

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, 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:

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

Temperature range:

-60 °C to +180 °C

(adequate ventilation required)

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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.

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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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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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 1.0	9	43	116
0046308	3 G 1.0	9.7	55.7	142
00463093	4 G 1.0	10.9	67.8	175
00463103	5 G 1.0	11.6	80.3	203
0046312	7 G 1.0	12.3	113.9	250
0046313	2 X 1.5	10.8	58	166
0046314	3 G 1.5	11.2	74	188
00463153	4 G 1.5	12	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 4.0	16	218	448
00463283	5 G 4.0	17.2	262.9	531
0046330	3 G 6.0	16.4	240.5	489
00463313	4 G 6.0	17.9	304.7	591
00463323	5 G 6.0	19.4	370	706