

Screened silicone cables with increased mechanical characteristics

Product Description

Longer durability in harsh applications than conventional silicone cables; Notch and tear resistant outer sheath material reduces mechanical damage; Copper braiding assures EMC and screens against electromagnetic interference; Good flexibility ease the installation where space is limited; Due to special additives in EWKF silicone steel wire armoured cable versions partly can become unnecessary



Application range

- Areas with high ambient temperatures and additionally 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 - Galvanization technology - Polymer processing - Generator and transformer building - Wind turbine engineering

Benefits

- Longer durability in harsh applications than conventional silicone cables
- Notch and tear resistant outer sheath material reduces mechanical damage
- Copper braiding assures EMC and screens against electromagnetic interference
- Good flexibility ease the installation where space is limited
- Due to special additives in EWKF silicone steel wire armoured cable versions partly can become unnecessary

Design

- Fine strands of tinned copper wires
- Cores twisted together
- Silicone based core insulation
- Silicone based inner sheath
- Tinned copper screen braiding, interleaved plastic foil wrapping
- Notch resistant silicone based EWKF outer sheath, colour black (RAL 9005)



Product features

- Halogen-free and flame retardant (IEC 60332-1-2)
- Reduced smoke density
- Good hydrolysis and UV resistance
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and chemical media
- EWKF Formula: Increased initial tear propagation and notch resistance

Technical Data

Core identification code

Up to 5 cores: according to VDE 0293-308
(appendix T9)

Starting at 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 cable diameter
Fixed installed: 6 x outer diameter

Rated voltage

U0/U 300/500 V

Test voltage

2000 V

Protective conductor

G = with protective conductor GN/YE

X = without protective conductor

Range of temperature

-50 °C up to +180 °C (adequate ventilation provided)

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in 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

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil \leq 30 kg and \leq 250 m, otherwise drum

Please specify the desired packaging size (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.