

Expanded ambient temperatures

Silicone cables (-50°C up to +180°C)

ÖLFLEX® HEAT 180 SiHF

Silicone cables with extended temperature range



Info

- The classic for multisided use
- For thermal class H applications

Benefits

- High flexibility ease the installation where space is limited
- Possess still insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where insulating and sheath materials of conventional cables will embrittle after a short while
- Typical fields of application
 - Steel and iron works
 - Cement and ceramic works
 - Foundries
 - Bakery equipment
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air conditioning technology
 - Oven construction
 - Galvanization technology
 - Polymer processing
 - Generator and transformer building
 - Wind turbine engineering

Product features

- Halogen free and flame retardant (IEC 60332-1-2)
- Reduced smoke density
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and other chemical media

Approvals (Norm references)



Product Make-up

- Fine strands of tinned copper wires
- Silicone based core insulation
- Cores twisted in layers
- Silicone based outer sheath, colour redbrown

Technical data

- Core identification code**
colour coded according to VDE 0293-308, see Appendix T9
starting at 6 cores: black with white numbers
- Based on**
VDE regulation VDE 0250
- Specific insulation resistance**
>200 GOhm x cm
- Conductor stranding**
Fine wire in acc. to VDE 0295 Cl.5 / IEC 60228 Cl.5
- Minimum bending radius**
for flexible applications:
15 x cable diameter
fixed installation:
4 x cable diameter
- Rated voltage**
U_c/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)

Part number	Number of cores and mm ² per conductor	Outer diameter mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® HEAT 180 SiHF				
0046001	2 X 0.75	6.4	14.4	53.4
0046002	3 G 0.75	6.8	21.6	63.7
00460033	4 G 0.75	7.6	28.8	83.6
00460043	5 G 0.75	8.5	36.0	101.2
0046005	6 G 0.75	9.2	43.2	116.8
0046006	7 G 0.75	9.2	50.4	124.9
0046007	2 X 1	6.6	19.2	59.9
0046008	3 G 1	7.0	29.0	78.2
00460093	4 G 1	7.9	38.4	94.5
00460103	5 G 1	8.8	48.0	116.0
0046012	7 G 1	9.5	67.0	144.2
0046013	2 X 1.5	7.6	29.0	81.7
0046014	3 G 1.5	8.0	43.0	98.3
00460153	4 G 1.5	8.8	58.0	122.4
00460163	5 G 1.5	9.6	72.0	148.0
0046018	7 G 1.5	10.4	101.0	187.3
0046039	12 G 1.5	14.0	173.0	315.0
0046040	16 G 1.5	16.2	230.4	446.0
0046041	20 G 1.5	17.5	288.0	566.0

Part number	Number of cores and mm ² per conductor	Outer diameter mm approx.	Copper index kg/km	Weight kg/km approx.
0046042	24 G 1.5	19.8	345.6	722.0
0046019	2 X 2.5	8.8	48.0	135.0
0046020	3 G 2.5	9.7	72.0	152.3
00460213	4 G 2.5	10.6	96.0	188.7
00460223	5 G 2.5	11.6	120.0	229.3
0046024	7 G 2.5	12.6	168.0	293.4
0046025	2 X 4	10.8	76.8	181.4
0046026	3 G 4	11.5	115.0	224.0
00460273	4 G 4	12.6	154.0	294.8
00460283	5 G 4	14.0	192.0	359.4
0046030	7 G 4	15.6	269.0	480.0
0046031	2 X 6	12.4	116.0	274.2
0046032	3 G 6	13.2	173.0	338.4
00460333	4 G 6	14.7	230.0	442.1
00460343	5 G 6	16.6	288.0	535.1
0046036	7 G 6	18.6	403.0	685.5
00460373	4 G 10	19.4	384.0	707.1
00460453	5 G 10	21.6	480.0	866.6
00460383	4 G 16	22.0	614.0	987.5

Copper price basis: EUR 150 / 100 kg

Our standard lengths, please visit: www.lappkabel.de/en/cable-standardlengths

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

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® HEAT 180 H05SS-F EWKF* see page 173
- ÖLFLEX® HEAT 180 EWKF see page 175