



ÖLFLEX® HEAT 105 MC

Colour-coded connection cables made of high heat-resistant PVC



Info

- Based on H05V2V2-F
- Further dimensions/colours on request
- CPR: Article number choice under www.lappkabel.com/cpr



Benefits

- Possible to operate at higher peak temperature (almost 30% more) compared to conventional PVC cables

Application range

- For connection of motors, transformers, reels, plants, machines, appliances, switch cabinets and other installations with a higher operating or ambient temperature
- For indoor and outdoor use

Product features

- Resistant to acids, alkalis and certain oils at room temperature
- Flame-retardant according IEC 60332-1-2
- Good UV-resistance

Norm references / Approvals

- Based on EN 50525-2-11

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: PVC, high heat-resistance
- Cores twisted in layers
- Outer sheath: PVC, heat-resistant, black (RAL 9005)

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 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: ÖLFLEX® colour code, refer to Appendix T7
	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 2500 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range Short-term: +105 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 105 MC				
0026001	2 X 0.75	6.2	14.4	53
0026002	3 G 0.75	6.5	21.6	62
00260033	4 G 0.75	7.1	28.8	76
00260043	5 G 0.75	8.0	36	95
0026005	7 G 0.75	9.7	50	113
0026006	2 X 1.0	6.5	19.2	61
0026007	3 G 1.0	6.9	29	74
00260083	4 G 1.0	7.7	38.4	89
00260093	5 G 1.0	8.4	48	110
0026010	7 G 1.0	10.2	67	130
0026011	2 X 1.5	7.5	29	78
0026012	3 G 1.5	8.1	43.2	98
00260133	4 G 1.5	8.9	57.6	122
00260143	5 G 1.5	10.0	72	144
0026015	7 G 1.5	12.3	101	180

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.

Similar products

- ÖLFLEX® HEAT 125 MC refer to page 188

Accessories

- SKINTOP® CLICK refer to page 682
- KNIPEX Cable shear refer to page 952

Power and control cables

Expanded ambient temperatures • Cross-linked cables



ÖLFLEX® HEAT 125 MC

Electron beam cross-linked cables for more demanding application requirements



Info

- CPR: Article number choice under www.lappkabel.com/cpr
- Improved characteristics in the event of a fire
- GL - Germanischer Lloyd approved

Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Certified for maritime applications

Application range

- For the wiring and connection of lighting, heating appliances, control cabinets, and distributors in mechanical and plant engineering
- For use in traffic regulation systems and outdoors
- Coil winding, electromagnets, pumps, electrical systems
- Heat treatment plants, pressure die casting, heating and cooling technology
- For outdoor applications

Product features

- Fire behaviour:
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Flame-retardant (IEC 60332-1-2, NF C 32-070 (C1) and NF-F 16-101 (Class C))
 - Low toxicity (EN 50305)
- No flame-propagation according to IEC 60332-3-22, IEC 60332-3-24 and IEC 60332-3-25 (Flame spread on vertical cable bundle)
- Oil-resistant acc. IEC 60227-1 (ST9) and EN 50264-1 (EM104)
- UV-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396

Norm references / Approvals

- GL - Germanischer Lloyd approved
- Based on EN 50525-3-21 and EN 50525-3-41

Product Make-up

- Fine-wire, tinned-copper conductor
- Electron beam cross-linked polyolefin copolymer insulation
- Cores twisted in layers
- Outer sheath: electron beam cross-linked polyolefin copolymer, black

Technical data

- Classification ETIM 5/6**
 ETIM 5.0/6.0 Class-ID: EC001578
 ETIM 5.0/6.0 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: 15 x outer diameter
 Fixed installation: 4 x outer diameter
- Nominal voltage**
 Up to 1.0mm² U0/U 300/500 V
 From 1.5mm² U0/U 450/750 V
 0.6/1kV from 1.5 mm² in the case of fixed and protected installation
- Test voltage**
 4000 V
- Protective conductor**
 G = with GN-YE protective conductor
 X = without protective conductor
- Temperature range**
 Occasional flexing: -35 °C to +120 °C
 Fixed installation: -55 °C to +125 °C
 Temporary (3.000h): up to +145 °C

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 MC 300/500 V				
1024300	2 X 0.5	6.0	9.6	38
1024301	3 G 0.5	6.3	14.4	46
1024302	4 G 0.5	6.9	19.2	55
1024307	2 X 0.75	6.4	14.4	40
1024308	3 G 0.75	6.8	21.6	53
1024309	4 G 0.75	7.4	28.8	69
1024310	5 G 0.75	8.3	36	86
1024311	7 G 0.75	9.0	50	127
1024315	2 X 1.0	6.6	19.2	50
1024316	3 G 1.0	7.0	28.8	67
1024317	4 G 1.0	7.8	38.4	87
1024318	5 G 1.0	8.6	48	107
1024319	7 G 1.0	9.5	67	152
1024320	12 G 1.0	12.8	115	221

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 MC 450/750 V				
1024323	2 X 1.5	7.6	29	71
1024324	3 G 1.5	8.3	43	96
1024325	4 G 1.5	9.0	58	123
1024326	5 G 1.5	10.1	72	156
1024327	7 G 1.5	11.2	101	224
1024328	12 G 1.5	15.1	173	316
1024333	2 X 2.5	9.0	48	102
1024334	3 G 2.5	9.8	72	145
1024335	4 G 2.5	10.8	96	189
1024336	5 G 2.5	11.9	120	235
1024337	7 G 2.5	13.2	168	344
1024341	4 G 4.0	12.7	154	276
1024342	5 G 4.0	14.0	192	334
1024346	4 G 6.0	14.1	230	341
1024347	5 G 6.0	15.8	288	431

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.

Accessories

- KNIPEX Cable shear refer to page 952
- STAR STRIP stripping tool refer to page 957
- EASY STRIP stripping and cutting tool refer to page 962



ÖLFLEX® HEAT 125 C MC

Electron beam cross-linked cables for more demanding application requirements



Info

- CPR: Article number choice under www.lappkabel.com/cpr
- Improved characteristics in the event of a fire
- GL - Germanischer Lloyd approved



Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000104
ETIM 5.0/6.0 Class-Description:
Control cable



Core identification code

Colour-coded according to VDE 0293-308, refer to Appendix T9 or black with white numbers refer to article table



Specific insulation resistance

>2 TOhm x cm



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: 5 x outer diameter



Nominal voltage

Up to 1.0mm² U0/U 300/500 V
From 1.5mm² U0/U 450/750 V
0.6/1kV from 1.5 mm² in the case of fixed and protected installation



Test voltage

C/C 4000 V, C/S 2500 V



Protective conductor

G = with GN-YE protective conductor
X = without protective conductor



Temperature range

Occasional flexing: -35 °C to +120 °C
Fixed installation: -55°C to +125°C
Temporary (3.000h): up to +145°C

Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Certified for maritime applications
- Copper braiding screens the cable against electromagnetic interference

Application range

- For outdoor applications
- For the wiring and connection of lighting, heating appliances, control cabinets, and distributors in mechanical and plant engineering
- For use in traffic regulation systems and outdoors
- Coil winding, electromagnets, pumps, electrical systems
- Heat treatment plants, pressure die casting, heating and cooling technology

Product features

- Fire behaviour:
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Flame-retardant (IEC 60332-1-2, NF C 32-070 (C1) and NF-F 16-101 (Class C))
 - Low toxicity (EN 50305)
- No flame-propagation according to IEC 60332-3-22, IEC 60332-3-24 and IEC 60332-3-25 (Flame spread on vertical cable bundle)
- Oil-resistant acc. IEC 60227-1 (ST9) and EN 50264-1 (EM104)
- UV-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396

Norm references / Approvals

- GL - Germanischer Lloyd approved
- Based on EN 50525-3-21 and EN 50525-3-41

Product Make-up

- Fine-wire, tinned-copper conductor
- Electron beam cross-linked polyolefin copolymer insulation
- Cores twisted in layers
- Tinned-copper braiding
- Outer sheath: electron beam cross-linked polyolefin copolymer, black

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 C MC 300/500 V - colour-coded				
1024400	2 X 0.5	6.8	41	45
1024401	3 G 0.5	7.1	45.5	59
1024407	2 X 0.75	7.2	46	79
1024408	3 G 0.75	7.6	57.9	96
1024409	4 G 0.75	8.4	64	116
1024410	5 G 0.75	9.1	77.4	139
1024415	2 X 1.0	7.4	56	90
1024416	3 G 1.0	8.0	65.3	104
1024417	4 G 1.0	8.6	78.1	129
1024418	5 G 1.0	9.6	89.4	153
ÖLFLEX® HEAT 125 C MC 450/750 V - colour-coded				
1024423	2 X 1.5	8.6	65	114
1024424	3 G 1.5	9.1	83	132
1024425	4 G 1.5	10.0	100	163
1024426	5 G 1.5	11.1	125	200
1024433	2 X 2.5	10.0	112	157
1024434	3 G 2.5	10.7	146	198
1024435	4 G 2.5	11.6	167	236
1024436	5 G 2.5	12.9	200	287
1024441	4 G 4.0	13.7	237	317
1024446	4 G 6.0	15.1	318	404
1024451	4 G 10.0	19.3	558	669

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 C MC 300/500 V - Black with white numbers				
1024480	2 X 0.75	7.2	46	79
1024481	3 X 0.75	7.6	57.9	96
1024482	4 X 0.75	8.4	64	116
1024411	7 G 0.75	10.0	102	186
1024483	7 X 0.75	10.0	102	186
1024412	12 G 0.75	13.4	177	219
1024484	2 X 1.0	7.4	56	90
1024485	3 X 1.0	8.0	65.3	104
1024419	7 G 1.0	10.3	113.3	211
1024420	12 G 1.0	14.0	188.1	266
ÖLFLEX® HEAT 125 C MC 450/750 V - Black with white numbers				
1024486	2 X 1.5	8.6	65	114
1024487	4 X 1.5	10.0	100	163
1024427	7 G 1.5	12.0	149	273
1024488	7 X 1.5	12.0	149	273
1024428	12 G 1.5	16.3	280	371
1024489	3 X 2.5	10.7	146	198
1024490	4 X 2.5	11.6	167	236
1024437	7 G 2.5	14.4	288	385
1024438	12 G 2.5	19.3	477.3	569

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.

Accessories

- SKINTOP® MS-M BRUSH refer to page 696
- SKINTOP® MS-SC refer to page 776
- EASY STRIP stripping and cutting tool refer to page 962

Power and control cables

Expanded ambient temperatures • Silicone cables



ÖLFLEX® HEAT 180 SiHF

Silicone cables with extended temperature range



Info

- The classic for multi-functional use
- Further dimensions/colours on request
- CPR: Article number choice under www.lappkabel.com/cpr

Benefits

- 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 where insulating and sheath materials of conventional cables will embrittle after a short while
- 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

- Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2), flame-retardant (IEC 60332-1-2)
- 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
- Silicone-based core insulation
- Cores twisted in layers
- Silicone-based outer sheath, colour red-brown

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 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)

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 SiHF				
0046001	2 X 0.75	6.4	14.4	59
0046002	3 G 0.75	6.8	21.6	70
00460033	4 G 0.75	7.6	28.8	89
00460043	5 G 0.75	8.5	36	112
0046005	6 G 0.75	9.2	43.2	131
0046006	7 G 0.75	9.2	50.4	136
0046007	2 X 1.0	6.6	19.2	66
0046008	3 G 1.0	7.0	29	79
00460093	4 G 1.0	7.9	38.4	101
00460103	5 G 1.0	8.8	48	127
0046012	7 G 1.0	9.5	67	156
0046013	2 X 1.5	7.6	29	90
0046014	3 G 1.5	8.0	43	109
00460153	4 G 1.5	8.8	58	134
00460163	5 G 1.5	9.6	72	163
0046018	7 G 1.5	10.4	101	202
0046039	12 G 1.5	14.0	173	361
0046040	16 G 1.5	16.2	230.4	478
0046041	20 G 1.5	17.5	288	574

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0046042	24 G 1.5	19.8	345.6	720
0046019	2 X 2.5	8.8	48	128
0046020	3 G 2.5	9.7	72	167
00460213	4 G 2.5	10.6	96	206
00460223	5 G 2.5	11.6	120	251
0046024	7 G 2.5	12.6	168	313
0046025	2 X 4.0	10.8	76.8	196
0046026	3 G 4.0	11.5	115	241
00460273	4 G 4.0	12.6	154	300
00460283	5 G 4.0	14.0	192	374
0046030	7 G 4.0	15.6	269	486
0046031	2 X 6.0	12.4	116	268
0046032	3 G 6.0	13.2	173	333
00460333	4 G 6.0	14.7	230	425
00460343	5 G 6.0	16.6	288	538
0046036	7 G 6.0	18.6	403	705
00460373	4 G 10.0	19.4	384	707
00460453	5 G 10.0	21.6	480	878
00460383	4 G 16.0	21.4	614	1004

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.

Similar products

- ÖLFLEX® HEAT 180 H05SS-F EWKF refer to page 191
- ÖLFLEX® HEAT 180 EWKF refer to page 194

Accessories

- SKINDICHT® SHV-M FKM refer to page 734
- SILVYN® HIPROJACKET refer to page 897



ÖLFLEX® HEAT 180 H05SS-F EWKF

Europe-wide standardised silicone connection cables with increased mechanical performance



Info

- International use in combination with proven EWKF quality



Benefits

- Harmonised use in Europe
- Notch and tear-resistant silicone compounds reduce damage due to mechanical stress
- For harsh environments, more durable than conventional H05SS-F standardised cables
- 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
 - 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

- EN 50525-2-83 (H05SS-F)

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 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 Class-Description: Flexible cable
	Core identification code Colours according to VDE 0293-308, refer to Appendix T9
	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 U ₀ /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)

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 H05SS-F EWKF				
0046900	2 X 0.75	6.4	14.4	54
0046901	3 G 0.75	7.0	21.6	67
00469023	4 G 0.75	7.6	28.8	87
00469033	5 G 0.75	8.5	36	105
0046904	2 X 1.0	6.8	19.2	63
0046905	3 G 1.0	7.2	28.8	81
00469063	4 G 1.0	7.9	38.4	98
00469073	5 G 1.0	8.8	48	121
0046908	2 X 1.5	8.4	28.8	84
0046909	3 G 1.5	8.9	43.2	103
00469103	4 G 1.5	9.9	57.6	128
00469113	5 G 1.5	10.9	72	154
0046912	2 X 2.5	9.8	48	141
0046913	3 G 2.5	10.4	72	158
00469143	4 G 2.5	11.6	96	195
00469153	5 G 2.5	12.9	120	241
0046916	3 G 4.0	12.3	115.2	239
00469173	4 G 4.0	13.7	153.6	312
0046919	3 G 6.0	14.0	172.8	345
00469203	4 G 6.0	15.6	230.4	451

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.

Similar products

- ÖLFLEX® HEAT 180 EWKF refer to page 194
- ÖLFLEX® HEAT 180 EWKF C refer to page 195

Accessories

- SKINDICHT® SHV-M refer to page 733
- SILVYN® HIPROJACKET refer to page 897

Power and control cables

Expanded ambient temperatures • Silicone cables



ÖLFLEX® HEAT 180 MS

Certified silicone cables for North America (AWM recognized)



Info

- MS = Multi-Standard
For use in the USA and Canada
- UL AWM Style 4476 (150 °C/600 V)
- CPR: Article number choice under
www.lappkabel.com/cpr

Benefits

- Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
- Thicker cable design meets the requirements of the FT-1 flame test and also approved for the external interconnection of apparatuses and appliances
- 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 where insulating and sheath materials of conventional cables will embrittle after a short while
- 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

- Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2)
- Flame-retardant acc. to IEC 60332-1-2, Cable Flame Test, CSA FT 1
- 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

- UL AWM 4476 and cUL AWM II A/B Construction B, External wiring
- UL File No. E63634

Product Make-up

- Fine-wire, tinned-copper conductor
- Silicone-based core insulation
- Cores twisted together
- Silicone-based outer sheath, colour black

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 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
(Refer to Appendix T16 for the matching US conductor sizes in AWG standard)



Minimum bending radius

Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter



Nominal voltage

U₀/U: 300/500 V
Working voltage UL: 600 V



Test voltage

2000 V



Protective conductor

G = with GN-YE protective conductor
X = without protective conductor



Temperature range

According to VDE: -60 °C to +180 °C
UL/cUL: up to +150 °C
(adequate ventilation required)

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 MS				
0046600	2 X 0.5	7.4	9.8	72
0046601	3 G 0.5	7.8	14.7	83
00466023	4 G 0.5	8.5	19.6	99
00466033	5 G 0.5	9.2	24.5	119
0046604	7 G 0.5	9.9	34.3	142
0046612	2 X 1.0	8.2	19.2	93
0046613	3 G 1.0	8.7	28.8	110
00466143	4 G 1.0	9.4	38.4	133
00466153	5 G 1.0	10.3	48	160
0046616	7 G 1.0	11.1	67.2	195
0046617	12 G 1.0	14.9	115.2	345
0046618	2 X 1.5	8.8	28.8	113
0046619	3 G 1.5	9.3	43.2	135
00466203	4 G 1.5	10.1	57.6	165

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
00466213	5 G 1.5	11.1	72	200
0046622	7 G 1.5	12.0	100.8	246
0046623	12 G 1.5	16.1	172.8	437
0046625	18 G 1.5	18.8	259.2	613
0046626	25 G 1.5	22.9	360	904
0046628	2 X 2.5	9.6	48	146
0046629	3 G 2.5	10.2	72	178
00466303	4 G 2.5	11.1	96	220
00466313	5 G 2.5	12.2	120	269
0046633	3 G 4.0	11.5	115.2	246
00466343	4 G 4.0	12.6	153.6	307
00466353	5 G 4.0	14.2	192	389
0046636	3 G 6.0	14.9	172.8	396
00466373	4 G 6.0	16.4	230.4	495
00466383	5 G 6.0	18.0	288	608

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.

Similar products

- ÖLFLEX® HEAT 180 SiF A refer to page 206
- ÖLFLEX® HEAT 180 C MS refer to page 193

Accessories

- KNIPEX Cable shear refer to page 952



ÖLFLEX® HEAT 180 C MS

Screened and approved silicone cables for North America (AWM recognized)



Info

- MS = Multi-Standard
For use in the USA and Canada
- UL AWM Style 4476 (150 °C/600 V)
- CPR: Article number choice under
www.lappkabel.com/cpr



Benefits

- Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
- Thicker cable design meets the requirements of the FT-1 flame test and also approved for the external interconnection of apparatuses and appliances
- Flexibility simplifies installation where space is limited
- Copper braiding screens the cable against electromagnetic interference

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, 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

- Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2)
- Flame-retardant acc. to IEC 60332-1-2, Cable Flame Test, CSA FT 1
- 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

- UL AWM 4476 and cUL AWM II A/B Construction B, External wiring
- UL File No. E63634

Product Make-up

- Fine-wire, tinned-copper conductor
- Silicone-based core insulation
- Cores twisted together
- Tinned-copper screen braiding, interleaved plastic foil wrapping
- Silicone-based outer sheath, colour black

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 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 (Refer to Appendix T16 for the matching US conductor sizes in AWG standard)
	Minimum bending radius Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
	Nominal voltage U0/U: 300/500 V Working voltage UL: 600 V
	Test voltage 2000 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range According to VDE: -60 °C to +180 °C UL/cUL: up to +150 °C (adequate ventilation required)

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 C MS				
0046701	3 G 0.5	8.6	43.4	100
0046702	4 G 0.5	9.3	55.4	122
0046703	5 G 0.5	10.0	60.2	137
0046708	2 X 1.0	9.0	48.2	104
0046709	3 G 1.0	9.5	65	131
0046710	4 G 1.0	10.2	74.6	152
0046711	5 G 1.0	11.0	91.5	181
0046712	7 G 1.0	11.9	117.9	228
0046716	2 X 1.5	9.6	65	126
0046717	3 G 1.5	10.1	79.4	152
0046718	4 G 1.5	10.9	101.1	186
0046719	5 G 1.5	11.8	122.7	222

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0046720	7 G 1.5	12.8	158.7	281
0046721	12 G 1.5	16.9	245.2	431
0046723	18 G 1.5	19.6	346.1	600
0046724	25 G 1.5	23.9	495.7	833
0046728	3 G 2.5	11.0	115.5	197
0046729	4 G 2.5	11.9	146.7	244
0046730	5 G 2.5	12.9	177.9	291
0046734	3 G 4.0	12.3	165.9	261
0046735	4 G 4.0	13.4	211.5	325
0046736	5 G 4.0	14.9	257.2	389
0046740	4 G 6.0	17.2	302.8	482
0046741	5 G 6.0	18.7	367.6	580
0046742	4 G 10.0	22.8	508.4	802

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.

Similar products

- ÖLFLEX® HEAT 180 MS refer to page 192

Accessories

- KNIPLEX Cable shear refer to page 952



ÖLFLEX® HEAT 180 EWKF

Silicone cables with increased mechanical characteristics



Info

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

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
 - 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 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 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)

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 EWKF				
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	8.0	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

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0046115	7 G 1.5	11.0	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	21.0	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

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.

Similar products

- ÖLFLEX® HEAT 180 H05SS-F EWKF refer to page 191
- ÖLFLEX® HEAT 180 EWKF C refer to page 195

Accessories

- SKINDICHT® SHV-M refer to page 733
- KNIPEX Cable shear refer to page 952



ÖLFLEX® HEAT 180 EWKF C

Screened silicone cables with increased mechanical characteristics



Info

- Proven notch-resistant EWKF quality
- EMC compliant copper screening
- CPR: Article number choice under www.lappkabel.com/cpr



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

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 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 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)

Article number	Number of cores and mm ² 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 1.0	9.0	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

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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 4.0	16.0	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

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.

Similar products

- ÖLFLEX® HEAT 180 C MS refer to page 193
- ÖLFLEX® HEAT 180 EWKF refer to page 194

Accessories

- KNIPEX Cable shear refer to page 952
- SKINTOP® MS-SC-M refer to page 695
- SKINTOP® MS-M BRUSH refer to page 696



ÖLFLEX® HEAT 180 GLS

Steel-armoured silicone cables for increased mechanical stress



Info

- Protected against thermal and mechanical loads

Benefits

- Close-meshed braid made of galvanised steel wires protects against mechanical damage
- Longer durability in harsh applications than conventional silicone cables
- 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 and glass works
 - Cement and ceramic works
 - Foundries
 - Shipbuilding industry
 - Furnace construction

Product features

- Halogen-free (IEC 60754-1), no corrosive gases (IEC 60754-2), flame-retardant (IEC 60332-1-2)
- Only suitable for use in dry conditions
- 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
- Silicone-based core insulation
- Cores twisted together
- Silicone-based outer sheath, colour red-brown
- Glass fibre wrapping
- Galvanised steel wire braiding

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 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: 20 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

-50 °C to +180 °C
(adequate ventilation required)

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 GLS				
0046201	2 X 0.75	7.6	14.4	84
0046202	3 G 0.75	8.0	21.6	96
00462033	4 G 0.75	8.8	28.8	118
00462043	5 G 0.75	9.7	36	145
0046205	6 G 0.75	10.4	43.2	167
0046206	7 G 0.75	10.4	50.4	171
0046207	2 X 1.0	7.8	19.2	92
0046208	3 G 1.0	8.2	28.8	106
00462093	4 G 1.0	9.1	38.4	132
00462103	5 G 1.0	10.0	48	161
0046212	7 G 1.0	10.7	67	205
0046213	2 X 1.5	8.8	29	119
0046214	3 G 1.5	9.2	43	140
00462153	4 G 1.5	10.0	57.6	168

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
00462163	5 G 1.5	10.8	72	212
0046218	7 G 1.5	11.8	101	255
0046237	12 G 1.5	15.4	173	433
0046219	2 X 2.5	10.0	48	162
0046220	3 G 2.5	10.9	72	217
00462213	4 G 2.5	12.0	96	260
00462223	5 G 2.5	13.0	120	310
0046224	7 G 2.5	14.0	168	362
0046226	3 G 4.0	12.9	115	300
00462273	4 G 4.0	14.0	154	365
00462283	5 G 4.0	15.4	192	446
00462313	4 G 6.0	16.1	230	500
00462343	4 G 10.0	20.8	384	807
00462353	4 G 16.0	22.8	614	1117

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.

Similar products

- ÖLFLEX® HEAT 260 GLS refer to page 200

Accessories

- KNIPEX Cable shear refer to page 952



ÖLFLEX® HEAT 205 MC

Fluorinated ethylene propylene cables for harsh applications

Info

- Good chemical resistance
- Wide temperature application range
- Thin, light and robust



Info

- EMC compliant copper screening



ÖLFLEX® HEAT 205 C MC PTFE/FEP

4-cored version with PTFE insulation and special core identity code

Benefits

- Space and weight-saving installations due to small cable diameters
- Resistant to contact with mostly all highly aggressive chemical media
- Low outgassing behaviour
- Due to good electrical and mechanical properties suitable for sensor technology

Application range

- For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces
- Typical fields of application
 - Industrial furnace construction
 - Foundries
 - Chemical industry
 - Power plant engineering
 - Paint shop line technology
 - Heating elements
 - Polymer processing
 - Wind turbine engineering
- Sensor systems, e.g. level sensors

Product features

- ÖLFLEX® HEAT 205 made of FEP
 - Outstanding resistance against acids, solvents, lacquers, petrol, oils and many other chemical media
 - Difficult to inflame
 - High dielectric strength and high abrasion resistance
 - Low water absorption
 - Resistant to microbes
 - Adhesion free insulation materials
 - Weather and ozone resistant
 - Hydrophobic and dirt-repellent
 - High elongation and tear resistance
 - Resistant against hydraulic fluids
- Flame-retardant

Product Make-up

ÖLFLEX® HEAT 205 MC

- Fine-wire, tinned-copper conductor
- FEP-based core insulation
- Cores twisted together
- FEP-based outer sheath, black

ÖLFLEX® HEAT 205 C MC PTFE/FEP

- Fine-wire, silver-plated copper conductor
- PTFE-based core insulation
- Cores twisted together
- Tinned-copper braiding
- Outer sheath: FEP-based, white

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 Class-Description: Flexible cable
	Core identification code ÖLFLEX® HEAT 205 MC Up to 5 cores: colour-coded acc. to VDE 0293-308 From 7 cores: ÖLFLEX® colour-codes, refer to Appendix T7 ÖLFLEX® HEAT 205 C MC PTFE/FEP Blue, red, grey, black
	Conductor stranding Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm ²
	Minimum bending radius Occasional flexing: 15 x outer diameter Fixed installation: 4 x outer diameter
	Nominal voltage U0/U: 300/500 V
	Test voltage ÖLFLEX® HEAT 205 MC 2500 V ÖLFLEX® HEAT 205 C MC PTFE/FEP C/C: 2500 V C/S: 2000 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range Fixed installation: -100°C to +205°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 205 MC				
0091200	2 X 0.25	3.1	5	17.2
0091201	3 G 0.25	3.3	7.5	22.2
00912023	4 G 0.25	3.6	10	27.5
0091210	2 X 0.5	3.8	9.8	21.6
0091211	3 G 0.5	4.0	14.7	32.8
00912123	4 G 0.5	4.4	19.6	44.4
0091220	2 X 0.75	4.2	14.4	31.5
0091221	3 G 0.75	4.6	21.6	46.1
00912223	4 G 0.75	4.9	29	57.9
0091230	2 X 1.0	4.5	19	41.6
0091231	3 G 1.0	4.8	29	55.6

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
00912323	4 G 1.0	5.3	38	70
0091100	3 G 1.5	5.6	43	70
00911033	4 G 1.5	6.1	58	98
00911013	5 G 1.5	6.8	72	117
0091102	7 G 1.5	7.4	101	184
0091236	3 G 2.5	6.6	72	86
00912353	4 G 2.5	7.3	96	115
00912373	5 G 2.5	8.2	120	144
00912423	4 G 4.0	8.7	154	180
00912433	5 G 4.0	9.6	192	225
ÖLFLEX® HEAT 205 C MC PTFE/FEP				
30016373	4 X 0.75	5.9	49	78

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.

Similar products

ÖLFLEX® HEAT 205 MC

- ÖLFLEX® HEAT 260 MC refer to page 198

Accessories

- SKINDICHT® SHV-M refer to page 733
- KNIPEX Cable shear refer to page 952



ÖLFLEX® HEAT 260 MC

Polytetrafluoroethylene cables for most extreme loads



Info

- Excellent chemical, thermal and electrical performance
- Thin, light and robust

Benefits

- Space-saving installation due to small cable diameters
- Stress crack resistant to frequent ambient temperature fluctuations
- Due to good electrical and mechanical properties suitable for sensor technology
- Low outgassing behaviour

Application range

- For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces
- ÖLFLEX® HEAT 260 has proven to be an effective solution in harsh environments such as paint shop lines
- Typical fields of application
 - Industrial furnace construction
 - Foundries
 - Chemical industry
 - Power plant engineering
 - Paint shop line technology
 - Heating elements
 - Polymer processing
 - Wind turbine engineering
- Sensor systems, e.g. level sensors

Product features

- ÖLFLEX® HEAT 260 made of PTFE
 - Outstanding resistance against acids, alkalis, solvents, lacquers, petrol, oils and many other chemical media
 - Difficult to inflame
 - High dielectric strength and high abrasion resistance
 - Low water absorption
 - Resistant to microbes
 - Adhesion-free insulation materials
 - Weather and ozone resistant
 - Hydrophobic and dirt-repellent
 - High elongation and tear resistance
 - Resists contact with liquid nitrogen
 - Resistant against hydraulic fluids
- Flame-retardant

Product Make-up

- Fine-wire strand made of nickel-plated copper
- PTFE-based core insulation
- Cores twisted together
- PTFE-based outer sheath, black

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 Class-Description: Flexible cable
	Core identification code Colours according to VDE 0293-308, refer to Appendix T9
	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 2500 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range Fixed installation: -190°C to +260°C Short-term: up to +300°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 260 MC				
0091300	2 X 0.5	3.9	9.6	22
0091301	3 G 0.5	4.1	14.4	33
0091302	4 G 0.5	4.5	19.2	45
0091305	2 X 0.75	4.2	14.4	32
0091306	3 G 0.75	4.4	21.6	47
0091307	4 G 0.75	5.1	28.8	58
0091310	2 X 1.0	4.8	19.2	42
0091311	3 G 1.0	5.1	28.8	56
0091312	4 G 1.0	5.8	38.4	71
0091315	3 G 1.5	5.6	43.2	72
0091316	4 G 1.5	6.1	57.6	98
0091317	5 G 1.5	7.0	72	118
0091320	3 G 2.5	7.1	72	87
0091321	4 G 2.5	7.7	96	116
0091322	5 G 2.5	8.5	120	145

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.

Similar products

- ÖLFLEX® HEAT 205 MC refer to page 197

Accessories

- SILVYN® HIPROJACKET refer to page 897
- EASY STRIP stripping and cutting tool refer to page 962
- STAR STRIP stripping tool refer to page 957



ÖLFLEX® HEAT 260 C MC

Copper-screened polytetrafluoroethylene cables for most extreme loads



Info

- Excellent chemical, thermal and electrical performance
- Thin, light and robust
- EMC compliant copper screening

Benefits

- Space and weight-saving installations due to small cable diameters
- Stress crack resistant to frequent ambient temperature fluctuations
- Resistant to contact with mostly all highly aggressive chemical media
- Low outgassing behaviour
- Due to good electrical and mechanical properties suitable for sensor technology

Application range

- For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces
- ÖLFLEX® HEAT 260 has proven to be an effective solution in harsh environments such as paint shop lines
- Typical fields of application
 - Industrial furnace construction
 - Foundries
 - Chemical industry
 - Power plant engineering
 - Paint shop line technology
 - Heating elements
 - Polymer processing
 - Wind turbine engineering
- Sensor systems, e.g. level sensors

Product features

- Copper braiding of screened version complies with EMC requirements and protects against electromagnetic interference
- ÖLFLEX® HEAT 260 made of PTFE
 - Outstanding resistance against acids, alkalis, solvents, lacquers, petrol, oils and many other chemical media
 - Difficult to inflame
 - High dielectric strength and high abrasion resistance
 - Low water absorption
 - Resistant to microbes
 - Adhesion-free insulation materials
 - Weather and ozone resistant
 - Hydrophobic and dirt-repellent
 - High elongation and tear resistance
 - Resists contact with liquid nitrogen
 - Resistant against hydraulic fluids
- Flame-retardant

Product Make-up

- Fine-wire strand made of nickel-plated copper
- PTFE-based core insulation
- Cores twisted together
- Special wrapping
- Nickel-plated copper braiding
- PTFE-based outer sheath, black

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 Class-Description: Flexible cable
	Core identification code Colours according to VDE 0293-308, refer to Appendix T9
	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 C/C: 2500 V C/S: 2000 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range Fixed installation: -190°C to +260°C Short-term: up to +300°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 260 C MC				
0091330	3 G 0.75	5.5	46	75
0091331	4 G 0.75	5.9	51	87
0091332	3 G 1.0	5.8	48	81
0091333	4 G 1.0	6.4	65	104
0091334	3 G 1.5	6.3	65	101
0091335	4 G 1.5	7.2	86	134
0091336	5 G 1.5	7.8	105	162
0091337	3 G 2.5	7.9	114	160
0091338	4 G 2.5	8.7	140	204
0091339	5 G 2.5	9.4	209	270

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.

Accessories

- EASY STRIP stripping and cutting tool refer to page 962
- STAR STRIP stripping tool refer to page 957

Power and control cables

Expanded ambient temperatures • PTFE cables



ÖLFLEX® HEAT 260 GLS

Steel-armoured PTFE cables for increased mechanical stress



Info

- Good thermal and mechanical performance
- Robust cable design
- GL - Germanischer Lloyd approved

Benefits

- Close-meshed braid made of galvanised steel wires protects against mechanical damage
- Small outer diameters for maximum saving of space and weight
- Germanischer Lloyd certification for use with ship diesel engines

Application range

- Extremely high temperatures and mechanical stress require special insulated and armoured cables
- Main applications
 - Ship-building
 - Signal systems
 - Monitoring devices
 - Diesel engines
 - Steam boiler units
 - Turbine manufacturing
- Electronics for industry and shipping, ship electrics

Product features

- Flame-retardant
- Stress crack resistant to frequent ambient temperature fluctuations
- High dielectric strength and high abrasion resistance
- High elongation resistance and tear strength
- Only suitable for use in dry conditions

Norm references / Approvals

- Germanischer Lloyd (GL) certificate no. 5449871 HH

Product Make-up

- Fine-wire strand made of nickel-plated copper
- PTFE-based core insulation
- Cores twisted together
- Impregnated glass fibre braiding
- Galvanised steel wire braiding

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 Class-Description: Flexible cable
- Core identification code**
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9
7-core version:
gn/ye, bl, bn, bk, bk, bk, tr
- Conductor stranding**
Fine wire according to VDE 0295
Class 5 / IEC 60228 Class 5
- Minimum bending radius**
In fixed installations:
5 x cable diameter
- Nominal voltage**
U0/U 300/500 V
according to GL: 250 V
- Test voltage**
1500 V
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
- Temperature range**
Fixed installation: -190°C to +260°C
According to GL: +205 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 260 GLS				
0091120	2 X 1.5	5.7	29	93
0091121	3 G 1.5	6.1	43	102
00911223	4 G 1.5	6.6	58	130
00911233	5 G 1.5	7.3	72	149
0091124	7 G 1.5	8.0	101	180

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.

Similar products

- ÖLFLEX® HEAT 180 GLS refer to page 196

Accessories

- EASY STRIP stripping and cutting tool refer to page 962



ÖLFLEX® HEAT 350 MC

Suitable for use in ambient temperature from -50 °C to +350 °C



Info

- Voltage rating: 230/400 V
- For use in dry conditions

Benefits

- Low conductor-resistance due to the nickel-plated copper conductors
- Wide operating temperature range allows the product to be used in applications under Thermal Class C (>180°C).

Application range

- Blast furnaces and glassworks
- Chemical and power station construction
- Motor and furnace construction
- Extrusion and drying systems
- Lighting, apparatus and instrument industry

Product features

- Flame-retardant
- Halogen-free
- Only suitable for use in dry conditions
- ÖLFLEX® HEAT 1565 MC is recommended if the peak temperature of the application may briefly go beyond 350°C

Product Make-up

- Fine-wire strand made of nickel-plated copper
- Core insulation: glass fibre covering and impregnated glass fibre braids
- Cores twisted together
- Outer sheath: impregnated glass fibre braiding, white (natural)

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 Class-Description:
Flexible cable



Core identification code

Colours according to VDE 0293-308, refer to Appendix T9



Conductor stranding

Fine wire according to VDE 0295
Class 5/ IEC 60228 Class 5



Minimum bending radius

Fixed installation: 6 x outer diameter



Nominal voltage

U0/U 230/400 V



Test voltage

1500 V



Temperature range

Fixed installation: -50°C to +350°C

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 350 MC				
0091375	2 X 1.0	6.8	19.2	56
0091376	3 G 1.0	7.4	28.8	70
0091377	4 G 1.0	8.2	38.4	88
0091380	2 X 1.5	7.8	28.8	77
0091381	3 G 1.5	8.4	43.2	93
0091382	4 G 1.5	9.4	57.6	118
0091383	5 G 1.5	10.3	72	140
0091390	3 G 2.5	8.9	72	124
0091391	4 G 2.5	9.8	96	160
0091392	5 G 2.5	10.1	120	194

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, 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.

Similar products

- ÖLFLEX® HEAT 350 SC refer to page 211
- ÖLFLEX® HEAT 1565 MC refer to page 202

Accessories

- SILVYN® HIPROJACKET refer to page 897

Power and control cables

Expanded ambient temperatures • Glass fibre cables



ÖLFLEX® HEAT 1565 MC

Suitable for use in ambient temperatures between -195 °C to +400 °C



Info

- Short-term: up to +1565 °C
- For use in dry conditions

Benefits

- Low conductor-resistance due to the nickel-plated copper conductors
- Able to withstand temporary contact with molten metal or glass

Application range

- Guarantees the circuit even in areas with extremely high ambient temperatures
- Blast furnaces and coking plants
- Refineries
- Glassworks
- Aluminium and steelworks

Product features

- Flame-retardant
- Halogen-free
- Only suitable for use in dry conditions

Product Make-up

- Fine-wire strand made of nickel-plated copper
- MICA tape wrapping and impregnated glass fibre braiding
- Cores twisted together
- Outer sheath: MICA tape-wrapping, impregnated glass fibre braiding, red

Technical data



Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 Class-Description:
Flexible cable



Core identification code

2-core cable:
blue, brown
4-core cable:
black, blue, yellow, red



Conductor stranding

Fine copper wire strands



Minimum bending radius

Fixed installation:
5 x cable diameter



Nominal voltage

U0/U: 300/500 V



Test voltage

2200 V



Temperature range

-195 °C to +400 °C
Short-term: up to +1565 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 1565 MC				
30020808	2 x 0.5	7.0	9.6	48
30020809	2 x 0.75	7.4	14.4	66
30016609	2 x 1.0	7.7	19.2	74
30016606	4 x 1.0	8.9	38.4	123
30016603	2 x 1.5	8.2	28.8	87
30016600	4 x 1.5	9.5	57.6	148
30020810	2 x 2.5	9.7	48	114
30020811	2 x 4.0	11.2	76.8	161

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, 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.

Accessories

- SILVYN® HIPROJACKET refer to page 897



ÖLFLEX® HEAT 125 SC

VDE tested single cores according to EN 50525-3-41 (H05Z-K & H07Z-K) for more demanding requirements



Info

- CPR: Article number choice under www.lappkabel.com/cpr
- VDE-tested and -marked
- Improved characteristics in the event of a fire



Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Certified for maritime applications

Application range

- For the wiring and connection of lighting, heating appliances, control cabinets, and distributors in mechanical and plant engineering
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- Coil winding, electromagnets, pumps, electrical systems
- Heat treatment plants, pressure die casting, heating and cooling technology
- Suitable for assembling cable harnesses and wiring during switch cabinet installation

Product features

- Fire behaviour:
 - Flame-retardant (IEC 60332-1-2)
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Low toxicity (EN 50305)
- Extended fire behaviour:
 - H05Z-K (0,5mm² up to 1,0mm²): see data sheet
 - H07Z-K (≥ 1,5mm²): no fire propagation according to IEC 60332-3-24 respectively IEC 60332-3-25
- Oil-resistant according to DIN EN 50290-2-22 (TM54)
- Abrasion and notch-resistant
- UV-resistant according to ISO 4892-2, method A, and ozone resistant acc. to EN 50396 resp. VDE 0473-396, method B

Norm references / Approvals

- Type H05Z-K and H07Z-K according to EN 50525-3-41 with advanced features
- Germanischer Lloyd (GL) certificate no. 11118-14HH

Product Make-up

- Fine-wire, tinned-copper conductor
- Electron beam cross-linked polyolefin copolymer insulation

Technical data

- Classification ETIM 5/6**
 ETIM 5.0/6.0 Class-ID: EC000993
 ETIM 5.0/6.0 Class-Description: Single core cable
- Conductor stranding**
 Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm²
- Minimum bending radius**
 Fixed installation: 4 x outer diameter
- Nominal voltage**
 Up to 1.0mm² U0/U 300/500 V
 From 1.5mm² U0/U 450/750 V
 0.6/1kV from 1.5 mm² in the case of fixed and protected installation
- Test voltage**
 4000 V
- Temperature range**
 Fixed installation: -55°C to +125°C
 Temporary (3.000h): up to +145°C

Conductor cross-section (mm²)	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet
ÖLFLEX® HEAT 125 SC - H05Z-K - U₀/U: 300/500 V											
0.5	2.2	100		4.8	8	1232106	1232105	1232005	1232009	1232104	1232007
0.75	2.4	100		7.2	11	1233106	1233105	1233005	1233009	1233104	1233007
0.75	2.4		2500	7.2	11	1233106K	1233105K		1233009K	1233104K	
1.0	2.5	100		9.6	14	1234106	1234105	1234005	1234009	1234104	1234007
1.0	2.5		2500	9.6	14	1234106K	1234105K		1234009K	1234104K	
ÖLFLEX® HEAT 125 SC - H07Z-K - U₀/U: 450/750 V											
1.5	3.0	100		14.4	21	1235106	1235105	1235005	1235009	1235104	1235007
1.5	3.0		2000	14.4	21	1235106K	1235105K		1235009K	1235104K	
2.5	3.6	100		24	33	1236106	1236105	1236005	1236009	1236104	1236007
4.0	4.3	100		38.4	49	1237106	1237105		1237009	1237104	
6.0	4.8	100		57.6	67	1238106				1238104	
10.0	6.2	100		96	112					1239104	
16.0	7.2	100		153.6	172					1240104	

Power and control cables



Expanded ambient temperatures • Cross-linked single cores

Conductor cross-section (mm²)	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue	green	brown	black	green/yellow	dark blue
ÖLFLEX® HEAT 125 SC - H05Z-K - U₀/U: 300/500 V											
0.5	2.2	100		4.8	8	1232002	1232006	1232003	1232001	1232000	1232114
0.5	2.2		3000	4.8	8				1232001K		
0.75	2.4	100		7.2	11	1233002	1233006	1233003	1233001	1233000	1233114
0.75	2.4		2500	7.2	11	1233002K		1233003K	1233001K		1233114K
1.0	2.5	100		9.6	14	1234002	1234006	1234003	1234001	1234000	1234114
1.0	2.5		2500	9.6	14	1234002K		1234003K	1234001K	1234000K	1234114K
ÖLFLEX® HEAT 125 SC - H07Z-K - U₀/U: 450/750 V											
1.5	3.0	100		14.4	21	1235002	1235006	1235003	1235001	1235000	1235114
1.5	3.0		2000	14.4	21	1235002K		1235003K	1235001K	1235000K	1235114K
2.5	3.6	100		24	33	1236002	1236006	1236003	1236001	1236000	1236114
2.5	3.6		1200	24	33				1236001K		
4.0	4.3	100		38.4	49	1237002		1237003	1237001	1237000	1237114
6.0	4.8	100		57.6	67	1238002		1238003	1238001	1238000	1238114
10.0	6.2	100		96	112	1239002		1239003	1239001	1239000	
16.0	7.2	100		153.6	172	1240002		1240003	1240001	1240000	1240114
25.0	8.9	100		240	262				1241001	1241000	
35.0	10.1	100		336	362				1242001	1242000	
50.0	12.5	100		480	512				1243001	1243000	
70.0	14.2	100		672	710				1244001	1244000	
95.0	16.6	100		912	937				1245001	1245000	
120.0	18.2	100		1152	1159				1246001		
150.0	20.6	100		1440	1447				1247001	1247000	
185.0	22.5	100		1776	1790				1248001		
240.0	26.4	100		2304	2318				1249001		

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.

- Accessories
- KNIPEX Cable shear refer to page 952
 - UNIVERSAL STRIP stripping tool refer to page 963



ÖLFLEX® HEAT 180 SiF

Versatile single core cable with extended temperature range



Info

- Flexible fine-wire copper conductor
- CPR: Article number choice under www.lappkabel.com/cpr

Benefits

- Possesses insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while
- Typical fields of application
 - Control cabinet manufacturing
 - Appliances and apparatus engineering
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air-conditioning technology
 - Furnace construction
 - Polymer processing
 - Generator and transformer manufacturing

Product features

- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
- Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Flame-retardant according IEC 60332-1-2
- 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
- Silicone-based insulation

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm ²
	Minimum bending radius Fixed installation: 6 x core diameter One bend at end of core: 3 x cable diameter
	Nominal voltage U ₀ /U: 300/500 V
	Test voltage 2000 V
	Temperature range -50 °C to +180 °C (adequate ventilation required) Short-term: +200 °C

Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet	blue
ÖLFLEX® HEAT 180 SiF										
0.25	1.9	2.4	5.4	0047106	0047105	0047005	0047009	0047104	0047007	0047002
0.5	2.1	4.8	9	0048106	0048105	0048005	0048009	0048104	0048007	0048002
0.75	2.4	7.2	12	0049106	0049105	0049005	0049009	0049104	0049007	0049002
1.0	2.5	9.6	15	0050106	0050105	0050005	0050009	0050104	0050007	0050002
1.5	2.8	14.4	20	0051106	0051105	0051005	0051009	0051104	0051007	0051002
2.5	3.4	24	32	0052106	0052105	0052005		0052104	0052007	0052002
4.0	4.2	38	50	0053106	0053105	0053005	0053009	0053104		0053002
6.0	5.0	58	73	0054106	0054105	0054005		0054104		0054002
10.0	6.6	96	118	0055106	0055105		0055009	0055104		0055002
16.0	7.4	154	177	0056106	0056105			0056104		0056002
25.0	9.2	240	277	0057106				0057104		0057002
35.0	10.3	336	374					0058104		0058002
50.0	12.2	480	530					0059104		
70.0	14.2	672	724							0060002
95.0	16.6	912	982		0061105					

Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	green	brown	black	green/yellow	pink
ÖLFLEX® HEAT 180 SiF								
0.25	1.9	2.4	5.4	0047006	0047003	0047001	0047000	0047008
0.5	2.1	4.8	9	0048006	0048003	0048001	0048000	0048008
0.75	2.4	7.2	12	0049006	0049003	0049001	0049000	0049008
1.0	2.5	9.6	15	0050006	0050003	0050001	0050000	0050008
1.5	2.8	14.4	20	0051006	0051003	0051001	0051000	0051008
2.5	3.4	24	32	0052006	0052003	0052001	0052000	
4.0	4.2	38	50	0053006	0053003	0053001	0053000	
6.0	5.0	58	73	0054006	0054003	0054001	0054000	
10.0	6.6	96	118		0055003	0055001	0055000	
16.0	7.4	154	177			0056001	0056000	
25.0	9.2	240	277			0057001	0057000	
35.0	10.3	336	374			0058001	0058000	
50.0	12.2	480	530			0059001	0059000	
70.0	14.2	672	724			0060001		
95.0	16.6	912	982			0061001	0061000	
120.0	18.0	1152	1219			0062001	0062000	
150.0	20.0	1440	1524			0063001		
185.0	22.5	1776	1915			0064001		

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). / Also available on large spools and non-returnable drums.

Photographs and graphics are not to scale and do not represent detailed images of the respective products. / Other colours are available upon request

Similar products

- ÖLFLEX® HEAT 180 SiF A refer to page 206



ÖLFLEX® HEAT 180 SiF A

UL-AWM certified Silicone single core cable with extended temperature range



Info

- A for Advanced here: certification for USA and Canada
- UL AWM Style 3644 (150°C/1000 V)
- CPR: Article number choice under www.lappkabel.com/cpr

Benefits

- Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
- Possesses insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while
- Typical fields of application
 - Control cabinet manufacturing
 - Appliances and apparatus engineering
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air-conditioning technology
 - Furnace construction
 - Polymer processing
 - Generator and transformer manufacturing

Product features

- Fire behaviour:
 - Flame-retardant (IEC 60332-1-2)
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Low toxicity (EN 50305)
- Flame retardance rating (UL): FT2 (Horizontal flame test)
- Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances

Norm references / Approvals

- UL AWM Style 3644
- UL File No. E63634
- UL certification acc. CSA AWM standard CSA C22.2 No. 210-05: cUL AWM I A/B

Product Make-up

- Fine-wire, tinned-copper conductor
- Silicone-based insulation

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable



Conductor stranding

Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm²



Minimum bending radius

Fixed installation: 6 x core diameter
One bend at end of core:
3 x cable diameter



Nominal voltage

UL: 1000 V
IEC: U₀/U 600/1000 V



Test voltage

3000 V



Temperature range

IEC: -50°C up to +180°C
UL (AWM): up to +150°C
(adequate ventilation required)

Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet	blue
ÖLFLEX® HEAT 180 SiF A										
0.25	2.2	2.4	6.8	1249620	1249600	1249700	1249680	1249580	1249640	1249540
0.5	2.4	4.8	10.9	1249622	1249602	1249702	1249682	1249582	1249642	1249542
0.75	2.7	7.2	14	1249623	1249603	1249703	1249683	1249583	1249643	1249543
1.0	2.8	9.6	17.2	1249624	1249604	1249704	1249684	1249584	1249644	1249544
1.5	3.1	14.4	22.2	1249625	1249605	1249705	1249685	1249585	1249645	1249545
2.5	3.5	24	33.1	1249626	1249606	1249706	1249686	1249586	1249646	1249546
4.0	4.1	38	49.5	1249627	1249607			1249587		1249547
6.0	5.5	58	78.3	1249628	1249608			1249588		1249548
10.0	7.6	96	132.7		1249609			1249589		1249549
16.0	8.4	154	192		1249610			1249590		1249550
25.0	9.8	240	288.9		1249611			1249591		1249551
35.0	10.9	336	386					1249592		
50.0	13.5	480	557.6					1249593		

Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	green	brown	black	green/yellow	dark blue
ÖLFLEX® HEAT 180 SiF A								
0.25	2.2	2.4	6.8	1249720	1249560	1249520	1249500	1249660
0.5	2.4	4.8	10.9	1249722	1249562	1249522	1249502	1249662
0.75	2.7	7.2	14	1249723	1249563	1249523	1249503	1249663
1.0	2.8	9.6	17.2	1249724	1249564	1249524	1249504	1249664
1.5	3.1	14.4	22.2	1249725	1249565	1249525	1249505	1249665
2.5	3.5	24	33.1	1249726	1249566	1249526	1249506	1249666
4.0	4.1	38	49.5		1249567	1249527	1249507	
6.0	5.5	58	78.3		1249568	1249528	1249508	
10.0	7.6	96	132.7		1249569	1249529	1249509	
16.0	8.4	154	192		1249570	1249530	1249510	
25.0	9.8	240	288.9			1249531	1249511	
35.0	10.9	336	386			1249532		
50.0	13.5	480	557.6			1249533		
70.0	15.5	672.2	775.2			1249534		
95.0	17.5	912	1004.4			1249535		

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. / Cross-section 0.25 - 4 mm² only available as 100 m box

Other colours are available upon request



ÖLFLEX® HEAT 180 SiD

Silicone single core cable with solid conductor



Info

- Solid single copper conductor

Benefits

- Possesses insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while
- Typical fields of application
 - Control cabinet manufacturing
 - Appliances and apparatus engineering
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air-conditioning technology
 - Furnace construction
 - Polymer processing
 - Generator and transformer manufacturing

Product features

- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Flame-retardant according IEC 60332-1-2
- 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

- Tinned solid copper wire
- Silicone-based insulation

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Solid single copper conductor
	Minimum bending radius Fixed installation: 6 x core diameter One bend at end of core: 3 x cable diameter
	Nominal voltage U ₀ /U: 300/500 V
	Test voltage 2000 V
	Temperature range -50 °C to +180 °C (adequate ventilation required) Short-term: +200 °C

Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	white	blue	brown	black	green/yellow
ÖLFLEX® HEAT 180 SiD								
0.5	2.0	4.8	9	0068105			0068001	
0.75	2.2	7.2	12	0069105	0069002	0069003	0069001	0069000
1.0	2.3	9.6	15	0070105	0070002	0070003	0070001	0070000
1.5	2.6	14.4	20	0071105	0071002	0071003	0071001	0071000
2.5	3.2	24	32		0072002		0072001	
4.0	3.9	38	50				0073001	
6.0	4.6	58	64.5		0074002		0074001	

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).
 Also available on large spools and non-returnable drums.
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.
 Other colours are available upon request

Similar products

- ÖLFLEX® HEAT 180 SiF refer to page 205
- ÖLFLEX® HEAT 180 SiF A refer to page 206



ÖLFLEX® HEAT 180 SiF/GL



Info

- With glass fibre protection braiding

ÖLFLEX® HEAT 180 SiZ



Info

- Separable twin conductor

ÖLFLEX® HEAT 180 FZLSi



Info

- 10 kV high-voltage ignition wire

Benefits

- Possesses insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while
- Typical fields of application
 - Control cabinet manufacturing
 - Appliances and apparatus engineering
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air-conditioning technology
 - Furnace construction
 - Polymer processing
 - Generator and transformer manufacturing
- ÖLFLEX® HEAT 180 SiZ is suitable as electrical sensor cable in pipe systems for modern solar hot water systems

Product features

- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Flame-retardant according to IEC 60332-1-2

- 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

ÖLFLEX® HEAT 180 FZLSi

- Increased voltage rating is not subject to the Low Voltage Directive 2014/35/EU

Product Make-up

ÖLFLEX® HEAT 180 SiF/GL

- Fine-wire, tinned-copper conductor
- Silicone-based insulation
- Impregnated glass fibre braiding
- White, with natural glass fibre braiding

ÖLFLEX® HEAT 180 SiZ

- Fine-wire, tinned-copper conductor
- Silicone-based insulation
- Colour of core insulation: red
- Cores connected in parallel with a separating strip
- One of the two cores is marked for identification

ÖLFLEX® HEAT 180 FZLSi

- Fine-wire, tinned-copper conductor
- Silicone-based insulation
- Colour of core insulation: red

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable



Conductor stranding

Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm²



Minimum bending radius

Fixed installation: 6 x core diameter
One bend at end of core:
3 x cable diameter



Nominal voltage

Version SiF/GL / SiZ:
U₀/U 300/500 V
Version FZLSi:
10 kV



Test voltage

Version SiF/GL / SiZ:
2000 V
Version FZLSi:
20 kV



Temperature range

-50 °C to +180 °C
(adequate ventilation required)
Short-term: +200 °C

Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 SiF/GL hook-up wire with glass fibre braiding				
0065102	0.5	2.5	4.8	11
0065103	0.75	2.8	7.2	14
0065104	1.0	2.9	9.6	17
0065105	1.5	3.2	14.4	23
0065106	2.5	3.8	24	36
0065107	4.0	4.6	38	54
0065108	6.0	5.4	58	80
0065109	10.0	7.6	96	133
0065110	16.0	8.4	154	198
0065111	25.0	10.2	240	301
0065112	35.0	11.3	336	401
0065113	50.0	13.4	480	567
ÖLFLEX® HEAT 180 SiZ twin conductor				
0065201	2 x 0.5	2.1 x 4.2	9.6	17
0065202	2 x 0.75	2.3 x 4.6	14.4	24
ÖLFLEX® HEAT 180 FZLSi high-voltage ignition wire				
2510001	1 (32 x 0,2)	7.0	9.6	68
2510005	1,5 (30 x 0,25)	7.6	14.4	83

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.



ÖLFLEX® HEAT 205 SC

For very high and low temperature requirements



Info

- Now available as spools
- Thermal and chemical resistance
- Space and weight-saving

Benefits

- Small outer diameters for maximum saving of space and weight
- Resistant to contact with mostly all highly aggressive chemical media

Application range

- For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces
- Typical fields of application
 - Control cabinets with high heat generation
 - Measuring instruments
 - Furnaces and brickworks
 - Heating equipment and kitchen appliances
 - Electric motor building
 - Installations in the chemical industry

Product features

- Flame-retardant
- ÖLFLEX® HEAT 205 made of FEP
 - Outstanding resistance against acids, solvents, lacquers, petrol, oils and many other chemical media
 - Difficult to inflame
 - High dielectric strength and high abrasion resistance
 - Low water absorption
 - Resistant to microbes
 - Adhesion free insulation materials
 - Weather and ozone resistant
 - Hydrophobic and dirt-repellent
 - High elongation and tear resistance
 - Resistant against hydraulic fluids

Product Make-up

- Fine-wire, tinned-copper conductor
- FEP core insulation
- FEP = fluorinated ethylene propylene

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm ²
	Minimum bending radius Fixed installation: 4 x outer diameter
	Nominal voltage U ₀ /U: 300/500 V
	Test voltage 2500 V
	Temperature range Fixed installation: -100 °C to +205 °C

Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet	blue
ÖLFLEX® HEAT 205 SC												
0.14	1.0	100		1.35	2.6		0080105	0080005		0080104		0080002
0.25	1.2	100		2.4	4	0081106	0081105	0081005	0081009	0081104		0081002
0.25	1.2		500	2.4	4							0081002S
0.25	1.2		500	2.4	4					0081104S		
0.5	1.4	100		4.8	6.8	0082106	0082105	0082005	0082009	0082104	0082007	0082002
0.5	1.4		500	4.8	6.8							0082002S
0.5	1.4		500	4.8	6.8					0082104S		
0.75	1.8	100		7.2	10.1		0083105	0083005		0083104		0083002
0.75	1.8		500	7.2	10.1							0083002S
0.75	1.8		500	7.2	10.1					0083104S		
1	1.9	100		9.6	12.8	0084106	0084105	0084005		0084104	0084007	0084002
1	1.9		500	9.6	12.8							0084002S
1	1.9		500	9.6	12.8					0084104S		
1.5	2.1	100		14.4	18		0085105	0085005		0085104		0085002
1.5	2.1		500	14.4	18							0085002S
1.5	2.1		500	14.4	18					0085104S		
2.5	2.6	100		24	29.5	0086106	0086105			0086104	0086007	0086002
2.5	2.6		500	24	29.5							0086002S
2.5	2.6		500	24	29.5					0086104S		
4	3.1	100		38	45		0087105	0087005		0087104		0087002
6	3.8			58	68					0088104		0088002
10	4.7			96	116	0089106	0089105			0089104		0089002
16	6.6			154	175					0090104		0090002

Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	green	brown	black	green/yellow	transparent
ÖLFLEX® HEAT 205 SC										
0.14	1.0	100		1.35	2.6	0080006		0080001		0080010
0.25	1.2	100		2.4	4	0081006		0081003	0081001	0081010
0.25	1.2		500	2.4	4		0081003S	0081001S		
0.5	1.4	100		4.8	6.8	0082006		0082003	0082001	0082000
0.5	1.4		500	4.8	6.8		0082003S	0082001S		0082010
0.75	1.8	100		7.2	10.1	0083006		0083003	0083001	0083000
0.75	1.8		500	7.2	10.1		0083003S	0083001S	0083000S	0083010
1	1.9	100		9.6	12.8	0084006		0084003	0084001	0084000
1	1.9		500	9.6	12.8		0084003S	0084001S	0084000S	0084010
1.5	2.1	100		14.4	18		0085003	0085001	0085000	0085010
1.5	2.1		500	14.4	18		0085003S	0085001S	0085000S	
2.5	2.6	100		24	29.5		0086003	0086001	0086000	0086010
2.5	2.6		500	24	29.5		0086003S	0086001S	0086000S	
4	3.1	100		38	45		0087003	0087001	0087000	0087010
6	3.8			58	68		0088003	0088001	0088000	0088010
10	4.7			96	116		0089003	0089001	0089000	0089010
16	6.6			154	175			0090001	0090000	

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 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. / Other colours are available upon request

Similar products

- ÖLFLEX® HEAT 260 SC refer to page 210

Accessories

- KNIPEX Diagonal cutter refer to page 951



ÖLFLEX® HEAT 260 SC

For use in the most extreme conditions



Info

- Excellent chemical, thermal and electrical performance
- Space and weight-saving

Benefits

- Small outer diameters for maximum saving of space and weight
- Resistant to contact with mostly all highly aggressive chemical media
- Stress crack resistant to frequent ambient temperature fluctuations

Application range

- For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces
- Typical fields of application
 - Aerospace engineering
 - High-frequency engineering
 - Control cabinets with high heat generation
 - Measuring instruments
 - Furnaces and brickworks
 - Heating equipment and kitchen appliances
 - Electric motor building
 - Installations in the chemical industry

Product features

- Flame-retardant
- ÖLFLEX® HEAT 260 made of PTFE
 - Outstanding resistance against acids, alkalis, solvents, lacquers, petrol, oils and many other chemical media
 - Difficult to inflame
 - High dielectric strength and high abrasion resistance
 - Low water absorption
 - Resistant to microbes
 - Adhesion-free insulation materials
 - Weather and ozone resistant
 - Hydrophobic and dirt-repellent
 - High elongation and tear resistance
 - Resists contact with liquid nitrogen
 - Resistant against hydraulic fluids
- Silver plated copper is characterized by good surface conductivity (skin effect) and good solderability

Product Make-up

- Silver-plated AWG copper conductor
- PTFE core insulation
- PTFE = Polytetrafluoroethylene

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable



Conductor stranding

AWG conductor sizes: 7, 19 or 37 wires



Minimum bending radius

Fixed installation: 4 x outer diameter



Nominal voltage

U0/U: 300/500 V



Test voltage

3400 V



Temperature range

Fixed installation: -190°C to +260°C

AWG No. and wire number	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet	blue
ÖLFLEX® HEAT 260 SC										
28 (7)	0.8	0.9	2	0094106	0094105	0094005	0094009	0094104	0094007	0094002
26 (7)	0.9	1.4	2.7	0095106	0095105		0095009	0095104	0095007	0095002
26 (19)	0.9	1.5	2.9	0106011				0096104		
24 (7)	1.1	2.2	3.8		0097105			0097104		0097002
24 (19)	1.1	2.3	4	0098106	0098105			0098104		0098002
22 (7)	1.2	3.4	5.4		0099105	0099005		0099104	0099007	0099002
22 (19)	1.2	3.7	5.7		0100105	0100005	0100009	0100104		0100002
20 (7)	1.4	5.4	7.7		0101105			0101104		0101002
20 (19)	1.4	5.9	8.2	0102106	0102105	0102005	0102009	0102104	0102007	0102002
18 (7)	1.7	8.6	12					0103104		
18 (19)	1.7	9.3	12		0104105	0104005	0104009	0104104	0104007	0104002
16 (19)	2.0	11.8	16		0105105	0105005	0105009	0105104	0105007	0105002
14 (19)	2.4	18.7	23	0106106	0106105	0106005		0106104		0106002
12 (19)	2.8	29.6	35		0107105	0107005	0107009			0107002
10 (37)	3.4	45.6	51		0108105			0108104		0108002

AWG No. and wire number	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	green	brown	black	green/yellow
ÖLFLEX® HEAT 260 SC							
28 (7)	0.8	0.9	2	0094006	0094003	0094001	0094000
26 (7)	0.9	1.4	2.7	0095006		0095001	
26 (19)	0.9	1.5	2.9	0096006		0096001	0096000
24 (7)	1.1	2.2	3.8		0097003	0097001	
24 (19)	1.1	2.3	4	0098006	0098003	0098001	0098000
22 (7)	1.2	3.4	5.4	0099006	0099003	0099001	
22 (19)	1.2	3.7	5.7		0100003	0100001	
20 (7)	1.4	5.4	7.7	0101006	0101003	0101001	
20 (19)	1.4	5.9	8.2	0102006	0102003	0102001	0102000
18 (7)	1.7	8.6	12			0103001	
18 (19)	1.7	9.3	12	0104006	0104003	0104001	0104000
16 (19)	2.0	11.8	16	0105006	0105003	0105001	0105000
14 (19)	2.4	18.7	23	0106006	0106003	0106001	0106000
12 (19)	2.8	29.6	35	0107006	0107003	0107001	0107000
10 (37)	3.4	45.6	51			0108001	0108000

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.

Packaging size: Coil 100m / Available as original coil goods only / Also available on large spools and non-returnable drums.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Other colours are available upon request

Similar products

- ÖLFLEX® HEAT 205 SC refer to page 209

Accessories

- EASY STRIP stripping and cutting tool refer to page 962



ÖLFLEX® HEAT 350 SC

Suitable for use in ambient temperature from -50 °C to +350 °C



Info

- For use in dry conditions

Benefits

- Low conductor-resistance due to the nickel-plated copper conductors

Application range

- Wide operating temperature range allows the product to be used in applications under Thermal Class C (>180°C).
- Blast furnaces and glassworks
- Chemical and power station construction
- Motor and furnace construction
- Lighting, apparatus and instrument industry

Product features

- Flame-retardant
- Halogen-free
- Only suitable for use in dry conditions
- ÖLFLEX® HEAT 650 SC and ÖLFLEX® HEAT 1565 SC are recommended if the peak temperature of the application may go beyond +350°C

Product Make-up

- Fine-wire strand made of nickel-plated copper
- Core insulation: glass fibre covering and impregnated glass fibre braids
- Core insulation from 16 mm²: mica wrapping and impregnated glass fibre braid
- Colour of core insulation: white

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
	Minimum bending radius Fixed installation: 5 x outer diameter
	Nominal voltage U0/U 230/400 V
	Test voltage 1500 V
	Temperature range Fixed installation: -50°C to +350°C

Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 350 SC				
0091350	0.5	2.5	4.8	13
0091351	0.75	3.0	7.2	15
0091352	1.0	3.4	9.6	17
0091353	1.5	3.5	14.4	23
0091354	2.5	3.7	24	34
0091355	4.0	4.2	38.4	54
0091356	6.0	6.2	57.6	84
0091357	10.0	7.3	96	120
0091358	16.0	8.0	153.6	199
0091359	25.0	9.5	240	300
0091360	35.0	10.9	336	399
0091361	50.0	13.2	480	540

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, 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.

Similar products

- ÖLFLEX® HEAT 650 SC refer to page 213
- ÖLFLEX® HEAT 1565 SC refer to page 212

Accessories

- KNIPEX Cable shear refer to page 952



ÖLFLEX® HEAT 1565 SC

Suitable for use in ambient temperatures between -195 °C to +400 °C



Info

- Short-term: up to +1565 °C
- For use in dry conditions

Benefits

- Low conductor-resistance due to the nickel-plated copper conductors
- Able to withstand temporary contact with molten metal or glass

Application range

- Guarantees the circuit even in areas with extremely high ambient temperatures
- Blast furnaces and coking plants
- Refineries
- Glassworks
- Aluminium and steelworks

Product features

- Flame-retardant
- Only suitable for use in dry conditions

Product Make-up

- Fine-wire strand made of nickel-plated copper
- Mica tape wrapping
- Impregnated glass fibre braiding, core colour: red

Technical data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable



Conductor stranding

Fine copper wire strands



Minimum bending radius

Fixed installation: 5 x outer diameter



Nominal voltage

U0/U: 300/500 V



Test voltage

2200 V



Temperature range

-195 °C to +400 °C
Short-term: up to +1565 °C

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT SC 1565				
3020780	0.75	2.9	7.2	15.9
3020781	1.0	3.0	9.6	18.8
3013234	1.5	3.3	14.4	24.3
3020782	2.5	3.8	24	35
3018942	4.0	4.8	38.4	56
3020783	6.0	5.6	57.6	86.4
3016697	10.0	6.2	96	123
3016698	16.0	7.9	153.6	202.5
3016699	25.0	9.2	240	295.1
3016771	35.0	10.6	336	403.9
3017861	50.0	12.2	480	545

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, 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.

Accessories

- SILVYN® HIPROJACKET refer to page 897

**ÖLFLEX® HEAT 650 SC**

Suitable for use in ambient temperature from -50°C to +700°C

**Info**

- For use in dry conditions

Benefits

- Suitable for areas where the installation temperature and ambient temperature is very high
- Good electrical conductivity due to nickel strand also at high temperatures

Application range

- Heating modules, electric heating devices, heat lockers
- Furnaces, electric ranges, night storage heater
- Heavy industry, iron and steel works, foundries, glass and ceramic processing, chemical industries
- Machinery, apparatus and power plant construction

Product features

- Flame-retardant
- Halogen-free
- Only suitable for use in dry conditions
- ÖLFLEX® HEAT 1565 SC is recommended if the peak temperature of the application may briefly go beyond 700°C

Product Make-up

- Strand made of nickel
- Core insulation: glass fibre covering and impregnated glass fibre braids

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Fine wire see data sheet
	Minimum bending radius Fixed installation: 5 x outer diameter
	Nominal voltage U0/U: 300/500 V
	Test voltage 1800 V
	Temperature range Occasional flexing: -50°C to +650°C Fixed installation: -50°C to +700°C

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Ni-index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 650 SC				
1232650	0.5	2.4	4.8	13
1232651	0.75	2.5	7.6	15
1232652	1.0	2.9	9.7	17
1232653	1.5	3.0	14.8	23
1232654	2.5	3.5	23.5	34
1232655	4.0	3.9	38.6	54
1232656	6.0	4.6	57.9	84
1232657	10.0	7.8	96.5	120
1232658	16.0	8.2	152	199
1232659	25.0	9.8	236.4	300
1232660	35.0	10.6	332.8	399
1232661	50.0	11.2	481.1	540

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
No copper surcharge.

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

Packaging size: Coil ≤ 30 kg, 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.

Similar products

- ÖLFLEX® HEAT 1565 SC refer to page 212

Accessories

- KNIPEX Cable shear refer to page 952