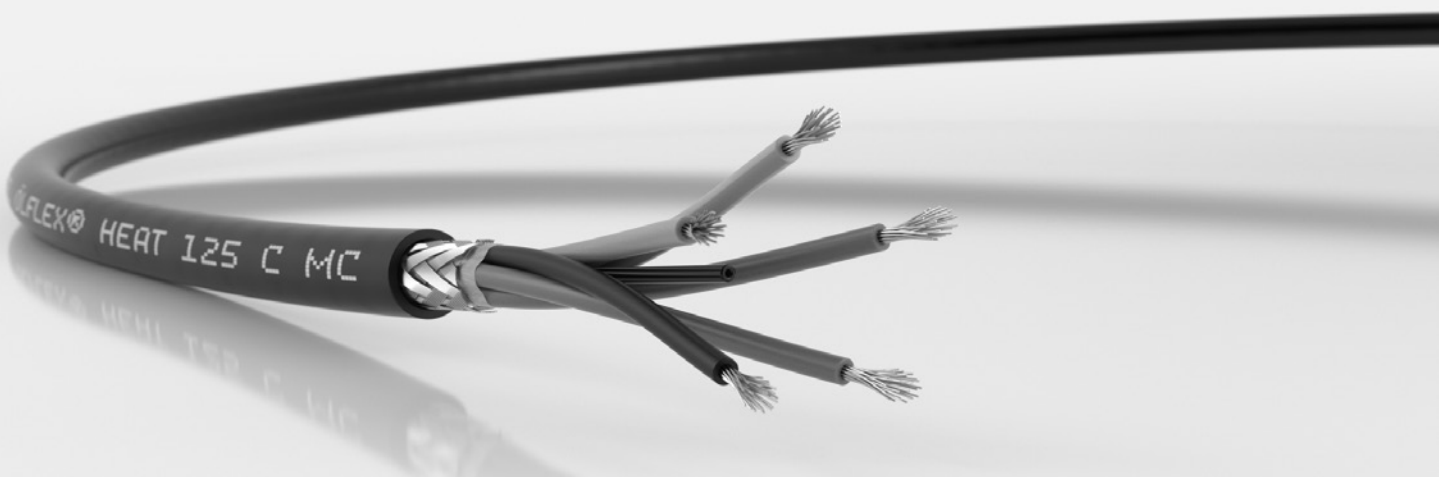


ÖLFLEX® HEAT 125

Temperature resistant cables and single cores



LAPP GROUP

ÖLFLEX® HEAT

The product portfolio with cables and single core cables for use at temperatures above +90 °C and below -50 °C. For these products, we use materials like cross-linked polymers, silicone, fluoropolymers and glass fibre which are suitable for expanded temperatures and moreover have individual outstanding properties. More details can be found in our current main catalogue.

| Power and control cables for expanded ambient temperatures | | | | | | | | | | | | | | |
|---|--------------|-----------------|----------------------|-------------------|--------------|-----------------------|----------------------|------------------|-----------|-----------|------------|---------|------------------|-------------------|
| | Halogen-free | Flame retardant | No flame propagation | Low smoke density | Low toxicity | VDE/HAR certification | UL/CSA certification | GL certification | 300/500 V | 450/750 V | 600/1000 V | 10000 V | 600 V acc. to UL | 1000 V acc. to UL |
| Multi-core cables | | | | | | | | | | | | | | |
| PVC cables (-20 °C up to +90 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 105 MC | | • | | | | | | | • | | | | | |
| Cross-linked cables (-55 °C up to +125 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 125 MC (NEW, see page 6) | • | • | • | • | • | | | • | • | • | • | | | |
| ÖLFLEX® HEAT 125 C MC (NEW, see page 7) | • | • | • | • | • | | | • | • | • | • | | | |
| Silicone cables (-50 °C up to +180 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 180 SiHF | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 H05SS-F EWKF | • | • | | • | | • | | | • | | | | | |
| ÖLFLEX® HEAT 180 MS | • | • | | • | | | • | | • | | | | • | |
| ÖLFLEX® HEAT 180 C MS | • | • | | • | | | • | | • | | | | • | |
| ÖLFLEX® HEAT 180 EWKF | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 EWKF C | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 GLS | • | • | | • | | | | • | • | | | | | |
| FEP cables (-100 °C up to +205 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 205 MC | | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 205 PTFE/FEP | | • | | | | | | | • | | | | | |
| PTFE cables (-190 °C up to +260 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 260 MC | | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 260 C MC | | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 260 GLS | | • | | | | | | | • | | | | | |
| Glass fibre insulated cables (above +260 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 350 MC | • | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 1565 MC | • | • | | | | | | | • | | | | | |
| Single core cables | | | | | | | | | | | | | | |
| Cross-linked single core cables (-55 °C up to +125 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 125 SC (NEW, see page 5) | • | • | • | • | • | • | | • | • | • | • | | | |
| Silicone single core cables (-50 °C up to +180 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 180 SiF | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 SiF A (NEW) | • | • | | • | | | • | | | | • | | | • |
| ÖLFLEX® HEAT 180 SiD | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 SiF/GL | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 SiZ | • | • | | • | | | | | • | | | | | |
| ÖLFLEX® HEAT 180 FZLSi | • | • | | • | | | | | | | | • | | |
| FEP single core cables (-100 °C up to +205 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 205 SC | | • | | | | | | | • | | | | | |
| PTFE single core cables (-190 °C up to +260 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 260 SC | | • | | | | | | | • | | | | | |
| Glass fibre insulated single core cables (above +260 °C) | | | | | | | | | | | | | | |
| ÖLFLEX® HEAT 350 SC | • | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 650 SC (NEW) | • | • | | | | | | | • | | | | | |
| ÖLFLEX® HEAT 1565 SC | • | • | | | | | | | • | | | | | |

Abbreviations

| | | | | | | | |
|---|----------------------------------|-------|--|-----|--|----|---------------------|
| A | Advanced (with UL certification) | EWKF | Initial tear propagation and notch resistant | GLS | Glass fibre braiding and steel wire braiding | MS | Multi-Standard |
| C | Copper braiding | FZLSi | Ignition wire Silicone | MC | Multi core (cable) | SC | Single core (cable) |

High-quality products with cross-linked materials

Cross-linking with electron beam

To meet the requirements for all fields of application, an electron beam cross-linked polymer is used for the ÖLFLEX® HEAT 125. By means of electron beam, cross-linking plastics, such as polyolefins, can be processed to high-performance polymers. For the cross-linking process, electron accelerators are used (see picture).

Advantages of cross-linked materials

- Improved mechanical properties
- Increased thermal strength
- Improved wear and abrasion resistance
- Good resistance to solvents, detergents or other operating fluids
- High temperature resistance
- The Special fire performance

Material, environment and sustainability

With the increasing requirements of the legislative authorities relating to fire protection and the prevention of fires, plastics

(such as insulation and sheath materials) are one of the priorities of directives and regulations.

RoHS, REACH or CPR are directives and regulations within European legislation that aim to improve the protection of human health and to protect the environment from the risks that can occur due to chemicals. For this purpose, halogen-free and flame retardant cables are increasingly demanded and used.

Special fire performance

In the event of a fire, ÖLFLEX® HEAT 125 products ensure a better fire performance, especially for areas where many people reside. Since the products are made of halogen-free compounds, no halogenated gases, which are often toxic, can be released in the event of a fire.

A particular risk of fire within buildings is caused by the development of flue gas. A low smoke density is important in relation

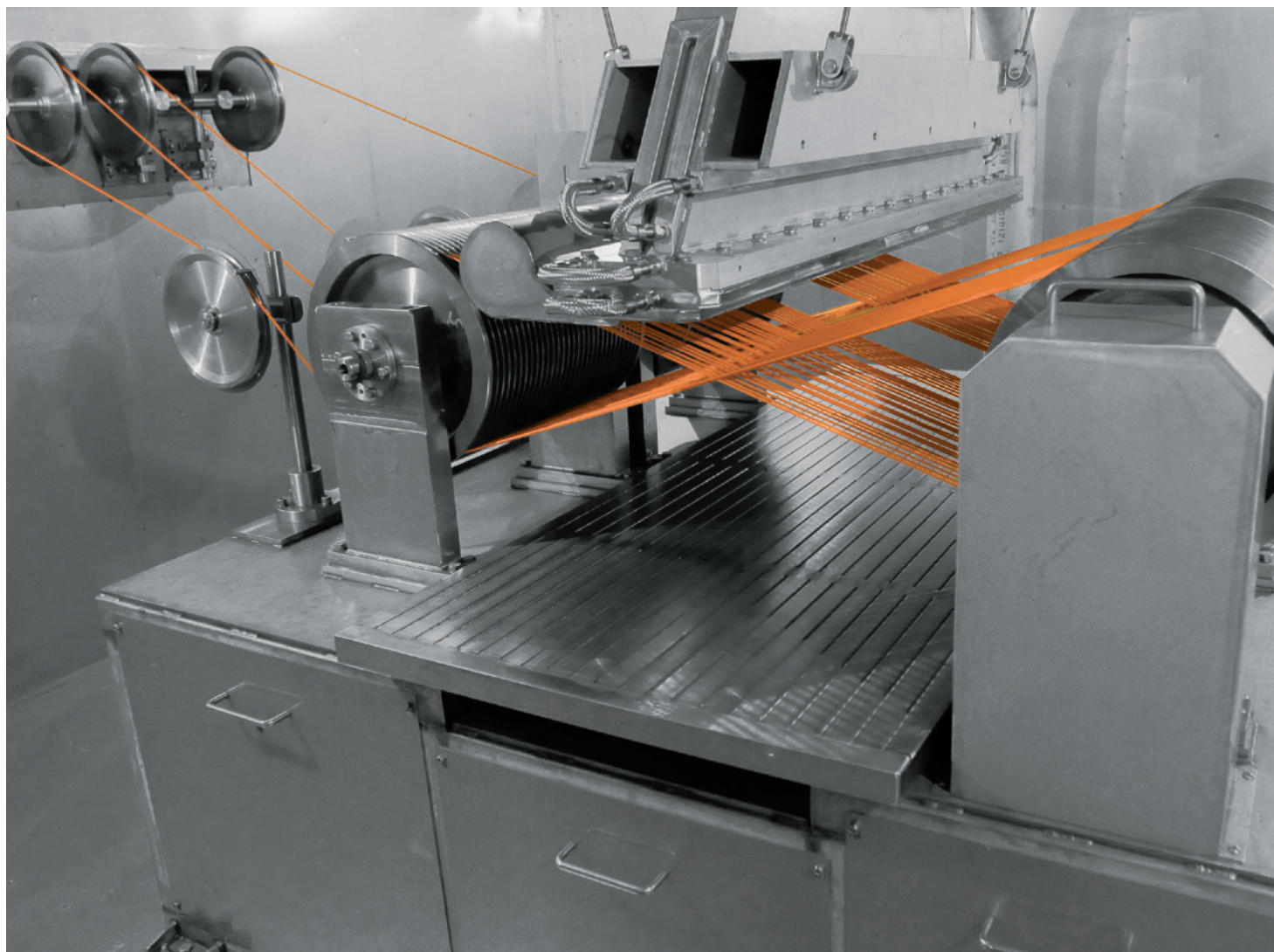
to the evacuation of persons and the accessibility for the fire department.

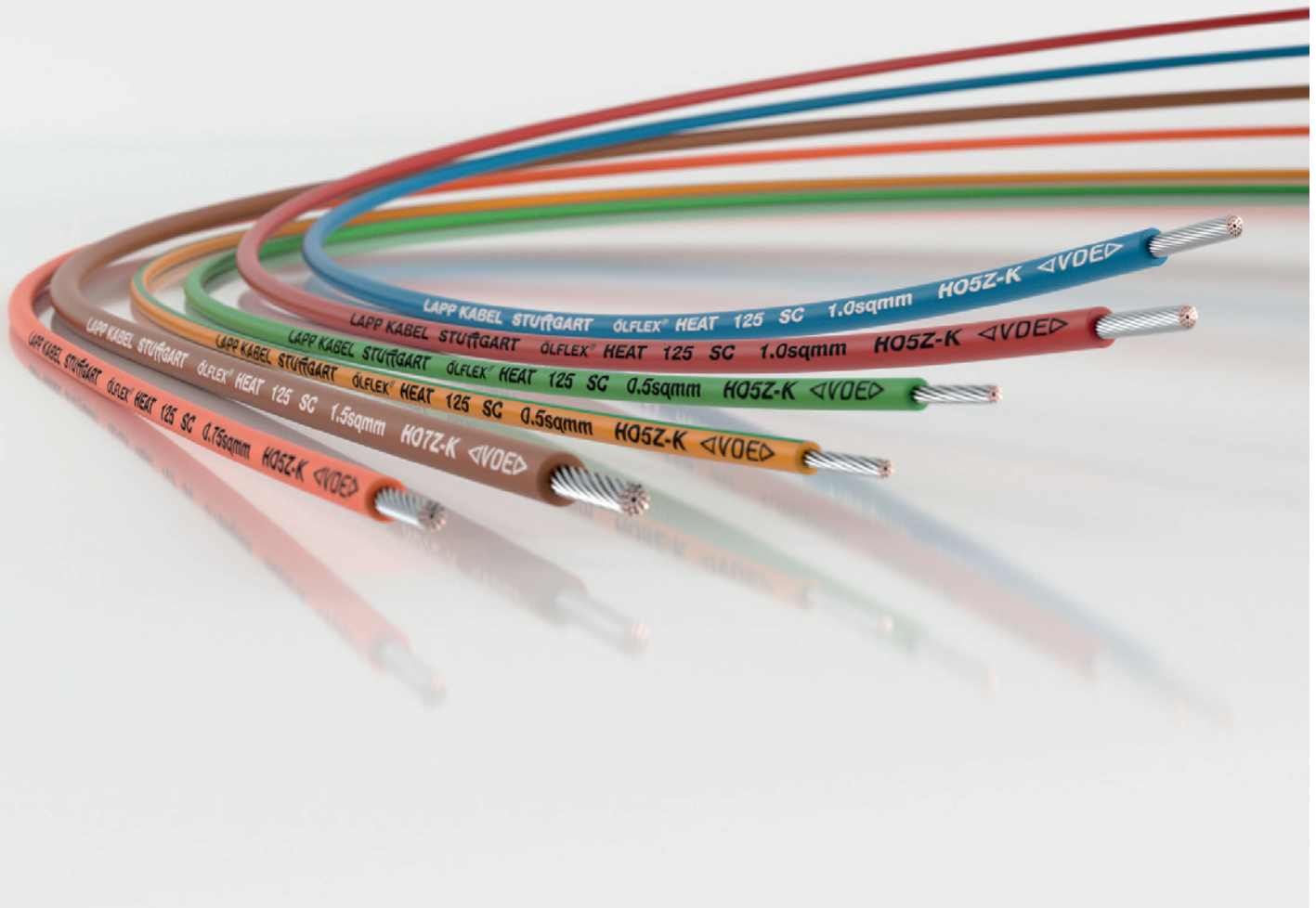
In addition, the materials used are chosen so that no flame propagation (acc. to IEC 60332-3) happens. That means that fires cannot be spread into other areas of the building through the cables.

In the event of a fire, these characteristics can help to reduce the risk to human lives. By avoiding toxic acidification, fire damage to buildings and equipment is minimised.

These standardised tests characterize the special fire performance of the cables:

- Flame retardance: IEC 60332-1-2
- No flame propagation: IEC 60332-3
- Absence of halogens: IEC 60754-1
- Acidity of combustion gases: IEC 60754-2
- Smoke density: IEC 61034-2
- Toxicity: EN 50305, chapter 9.2





NEW: ÖLFLEX® HEAT 125 for various applications

Typical applications

- Heat treatment systems
- Heating technology
- Switchgears, distribution boards
- Wire drawing machines
- Fire extinguishing systems
- Power and heat supply
- Die casting machines
- Air conditioning units

Typical branches

- Safety engineering
- Coil winding industry
- Generator and transformer manufacturing
- Electric motor industry
- Power engineering
- Air-conditioning technology
- Polymer processing
- Ship electronics

Properties at a glance

- Suitable for temperatures up to +125 °C
- Halogen-free
- Flame retardant, no flame propagation
- Low smoke density and low toxicity
- Good resistance to chemicals
- Resistant to heat pressure and increased tensile strength
- Improved abrasion and weather resistance
- Shipboard certification by Germanischer Lloyd

Info



- Now available in cardboard boxes
- VDE tested and marked
- Improved characteristics in the event of a fire

ÖLFLEX® HEAT 125 SC

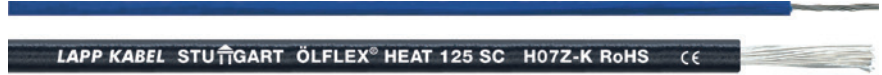
New

VDE TESTED SINGLE CORES ACCORDING TO EN 50525-3-41 (H05Z-K & H07Z-K) FOR MORE DEMANDING REQUIREMENTS



Technical data

- Classification**
ETIM 5.0 Class-ID: EC000993
ETIM 5.0 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 1.0 mm² U₀/U 300/500 V
From 1.5 mm² U₀/U 450/750 V
0.6/1 kV 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 (3.000 h): 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 the event of fire
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Certified for maritime applications

- 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 (0.5 mm² up to 1.0 mm²):
see data sheet
H07Z-K (≥ 1.5 mm²):
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

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

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

Accessories

- Refer to the current main catalogue:
- Conductor end sleeves AH, not insulated
 - UNIVERSAL STRIP stripping tool
 - KS 20 cable shears

Product features

- Fire behaviour:
- Flame retardant (IEC 60332-1-2)

Product Make-up

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

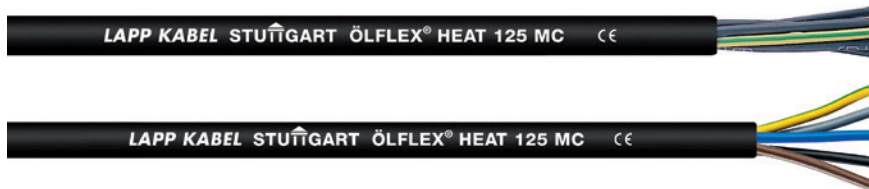
| Conductor cross-section (mm ²) | Outer diameter (mm) | m/ring | m/box | Copper index (kg/km) | Weight (kg/km) | brown | black | grey | blue | green/yellow | orange |
|--|---------------------|--------|-------|----------------------|----------------|----------|----------|----------|----------|--------------|----------|
| ÖLFLEX® HEAT 125 SC – H05Z-K – U₀/U: 300/500 V | | | | | | | | | | | |
| 0.5 | 2.2 | 100 | | 4.8 | 8 | 1232003 | 1232001 | 1232106 | 1232002 | 1232000 | 1232009 |
| 0.5 | 2.2 | | 3000 | 4.8 | 8 | | 1232001K | | | | |
| 0.75 | 2.4 | 100 | | 7.2 | 11 | 1233003 | 1233001 | 1233106 | 1233002 | 1233000 | 1233009 |
| 0.75 | 2.4 | | 2500 | 7.2 | 11 | 1233003K | 1233001K | 1233106K | 1233002K | 1233000K | 1233009K |
| 1 | 2.5 | 100 | | 9.6 | 14 | 1234003 | 1234001 | 1234106 | 1234002 | 1234000 | 1234009 |
| 1 | 2.5 | | 2500 | 9.6 | 14 | 1234003K | 1234001K | 1234106K | 1234002K | 1234000K | 1234009K |
| ÖLFLEX® HEAT 125 SC – H07Z-K – U₀/U: 450/750 V | | | | | | | | | | | |
| 1.5 | 3.0 | 100 | | 14.4 | 21 | 1235003 | 1235001 | 1235106 | 1235002 | 1235000 | 1235009 |
| 1.5 | 3.0 | | 2000 | 14.4 | 21 | 1235003K | 1235001K | 1235106K | 1235002K | 1235000K | 1235009K |
| 2.5 | 3.6 | 100 | | 24 | 33 | 1236003 | 1236001 | 1236106 | 1236002 | 1236000 | 1236009 |
| 2.5 | 3.6 | | 1200 | 24 | 33 | | 1236001K | | | | |
| 4 | 4.3 | 100 | | 38.4 | 49 | 1237003 | 1237001 | 1237106 | 1237002 | 1237000 | 1237009 |
| 6 | 4.8 | 100 | | 57.6 | 67 | 1238003 | 1238001 | 1238106 | 1238002 | 1238000 | |
| 10 | 6.2 | 100 | | 96 | 112 | 1239003 | 1239001 | | 1239002 | 1239000 | |
| 16 | 7.2 | 100 | | 153.6 | 172 | 1240003 | 1240001 | | 1240002 | 1240000 | |
| 25 | 8.9 | 100 | | 240 | 262 | | 1241001 | | | 1241000 | |
| 35 | 10.1 | 100 | | 336 | 362 | | 1242001 | | | 1242000 | |
| 50 | 12.5 | 100 | | 480 | 512 | | 1243001 | | | 1243000 | |
| 70 | 14.2 | 100 | | 672 | 710 | | 1244001 | | | 1244000 | |
| 95 | 16.6 | 100 | | 912 | 937 | | 1245001 | | | 1245000 | |
| 120 | 18.2 | 100 | | 1152 | 1159 | | 1246001 | | | | |
| 150 | 20.6 | 100 | | 1440 | 1447 | | 1247001 | | | 1247000 | |
| 185 | 22.5 | 100 | | 1776 | 1790 | | 1248001 | | | | |
| 240 | 26.4 | 100 | | 2304 | 2318 | | 1249001 | | | | |
| ÖLFLEX® HEAT 125 SC – H05Z-K – U₀/U: 300/500 V | | | | | | | | | | | |
| 0.5 | 2.2 | 100 | | 4.8 | 8 | 1232114 | 1232105 | 1232006 | 1232005 | 1232007 | 1232104 |
| 0.75 | 2.4 | 100 | | 7.2 | 11 | 1233114 | 1233105 | 1233006 | 1233005 | 1233007 | 1233104 |
| 0.75 | 2.4 | | 2500 | 7.2 | 11 | 1233114K | 1233105K | | | | 1233104K |
| 1 | 2.5 | 100 | | 9.6 | 14 | 1234114 | 1234105 | 1234006 | 1234005 | 1234007 | 1234104 |
| 1 | 2.5 | | 2500 | 9.6 | 14 | 1234114K | 1234105K | | | | 1234104K |
| ÖLFLEX® HEAT 125 SC – H07Z-K – U₀/U: 450/750 V | | | | | | | | | | | |
| 1.5 | 3.0 | 100 | | 14.4 | 21 | 1235114 | 1235105 | 1235006 | 1235005 | 1235007 | 1235104 |
| 1.5 | 3.0 | | 2000 | 14.4 | 21 | 1235114K | 1235105K | | | | 1235104K |
| 2.5 | 3.6 | 100 | | 24 | 33 | 1236114 | 1236105 | 1236006 | 1236005 | 1236007 | 1236104 |
| 4 | 4.3 | 100 | | 38.4 | 49 | 1237114 | 1237105 | | | | 1237104 |
| 6 | 4.8 | 100 | | 57.6 | 67 | 1238114 | | | | | 1238104 |
| 10 | 6.2 | 100 | | 96 | 112 | | | | | | 1239104 |
| 16 | 7.2 | 100 | | 153.6 | 172 | 1240114 | | | | | 1240104 |

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 the current main 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 are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® HEAT 125 MC

New

ELECTRON BEAM CROSS-LINKED CABLES FOR MORE DEMANDING APPLICATION REQUIREMENTS



Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in the 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

| Article number | Number of cores and mm ² 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 |
| 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 | 6.6 | 19.2 | 50 |
| 1024316 | 3 G 1 | 7.0 | 28.8 | 67 |
| 1024317 | 4 G 1 | 7.8 | 38.4 | 87 |
| 1024318 | 5 G 1 | 8.6 | 48 | 107 |
| 1024319 | 7 G 1 | 9.5 | 67 | 152 |
| 1024320 | 12 G 1 | 12.8 | 115 | 221 |

| Article number | Number of cores and mm ² 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 | 12.7 | 154 | 276 |
| 1024342 | 5 G 4 | 14.0 | 192 | 334 |
| 1024346 | 4 G 6 | 14.1 | 230 | 341 |
| 1024347 | 5 G 6 | 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 the current main catalogue, appendix T 17, 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 are not to scale and do not represent detailed images of the respective products.

Info

- Substitutes previous ÖLFLEX® HEAT 145 MC
- Improved characteristics in the event of a fire
- GL - Germanischer Lloyd approved

Technical data



Classification

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



Core identification code

Up to 5 cores: colour-coded according to VDE 0293-308, refer to the current main catalogue, 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 1.0 mm² U₀/U 300/500 V
From 1.5 mm² U₀/U 450/750 V
0.6/1 kV 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 (3.000 h): up to +145 °C

Accessories

Refer to the current main catalogue:

- EASY STRIP stripping and cutting tool
- SILVYN® HCX
- SILVYN® EMC AS-CU
- STAR STRIP stripping tool

Info

- Substitutes previous ÖLFLEX® HEAT 145 C MC
- Improved characteristics in the event of a fire
- GL – Germanischer Lloyd approved

Technical data



Classification

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



Core identification code

Colour-coded according to VDE 0293-308, refer to the current main catalogue, 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 1.0 mm² U₀/U 300/500 V
From 1.5 mm² U₀/U 450/750 V
0.6/1 kV 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 (3.000 h): up to +145 °C

Accessories

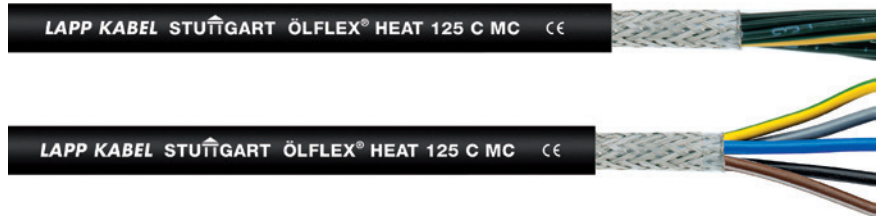
Refer to the current main catalogue:

- SKINTOP® MS-SC/MS-SC-M
- EASY STRIP stripping and cutting tool
- SKINTOP® MS-M BRUSH
- SILVYN® EMC AS-CU
- STAR STRIP stripping tool

ÖLFLEX® HEAT 125 C MC

New

ELECTRON BEAM CROSS-LINKED CABLES FOR MORE DEMANDING APPLICATION REQUIREMENTS



Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in the 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 | 7.4 | 56 | 90 |
| 1024416 | 3 G 1 | 8.0 | 65.3 | 104 |
| 1024417 | 4 G 1 | 8.6 | 78.1 | 129 |
| 1024418 | 5 G 1 | 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 | 10.7 | 112 | 157 |
| 1024434 | 3 G 2.5 | 10.0 | 146 | 198 |
| 1024435 | 4 G 2.5 | 11.6 | 167 | 236 |
| 1024436 | 5 G 2.5 | 12.9 | 200 | 287 |
| 1024441 | 4 G 4 | 13.7 | 237 | 317 |
| 1024446 | 4 G 6 | 15.1 | 318 | 404 |
| 1024451 | 4 G 10 | 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 | | 219 |
| 1024484 | 2 X 1 | 7.4 | 56 | 90 |
| 1024485 | 3 X 1 | 8.0 | 65.3 | 104 |
| 1024419 | 7 G 1 | 10.3 | 113.3 | 211 |
| 1024420 | 12 G 1 | 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 the current main 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 are not to scale and do not represent detailed images of the respective products.

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