ÖLFLEX® HEAT 125
Temperature resistant cables and single cores
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.

### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>Advanced (with UL certification)</td>
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<tr>
<td>C</td>
<td>Copper braiding</td>
</tr>
<tr>
<td>EWKF</td>
<td>Initial tear propagation and notch resistant</td>
</tr>
<tr>
<td>FZLSi</td>
<td>Ignition wire Silicone</td>
</tr>
<tr>
<td>GL</td>
<td>Glass fibre braiding and steel wire braiding</td>
</tr>
<tr>
<td>MC</td>
<td>Multi core (cable)</td>
</tr>
<tr>
<td>MS</td>
<td>Multi-Standard</td>
</tr>
<tr>
<td>SC</td>
<td>Single core (cable)</td>
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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
## 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

### Test voltage
- 4000 V

### Temperature range
- Fixed installation: -55 °C to +125 °C
- Temporary (3.000 h): up to +145 °C

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

### 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 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 50503)
- 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 50290-2-22 (TM54)
    - Abrasion and notch-resistant
    - UV-resistant according to ISO 4892-2

### 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

## Accessory Make-up

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<th>Conductor cross-section (mm²)</th>
<th>Outer diameter (mm)</th>
<th>m/c ring</th>
<th>m/c box</th>
<th>Copper index (kg/km)</th>
<th>Weight (kg/km)</th>
<th>brown</th>
<th>black</th>
<th>grey</th>
<th>blue</th>
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<th>Applications</th>
<th>Benefits</th>
<th>Accessories</th>
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<td>Fixed installation</td>
<td>Reduced fire propagation, density and toxicity</td>
<td>Conductor end sleeves AH, not insulated</td>
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<tr>
<td>No fire propagation</td>
<td>of smoke gases in the event of fire</td>
<td>UNIVERSAL STRIP stripping tool</td>
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<tr>
<td>Minimises damage to</td>
<td>Minimises damage to buildings and equipment</td>
<td>KS 20 cable shears</td>
</tr>
<tr>
<td>buildings and equipment</td>
<td>caused by the formation of toxic acid fumes</td>
<td></td>
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<tr>
<td>in fires</td>
<td>in fires</td>
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<td>Certified</td>
<td>Certified</td>
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<tr>
<td>for maritime applications</td>
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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-standard-lengths. 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.
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 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

Technical data

Classification
ETIM 5.0 Class-ID: EC00157B
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

ÖLFLEX® HEAT 125 MC
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 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

Appendix T9

Technical data

Classification
ETIM 5.0 Class-ID: EC00157B
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

Accessory
Refer to the current main catalogue:
• EASY STRIP stripping and cutting tool
• SILVYN® HCX
• SILVYN® EMC AS-CU
• STAR STRIP stripping tool

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.
## 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

**Conductor stranding**
- Occasional flexing: -35 °C to +120 °C
  - Fixed installation: -55 °C to +125 °C

**Application range**
- For the wiring and connection of lighting
  - For outdoor applications

**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

**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

## 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 strapping tool

## Accessories

#### ÖLFLEX® HEAT 125 C MC 300/500 V – colour-coded

<table>
<thead>
<tr>
<th>Article number</th>
<th>Number of cores and mm² per conductor</th>
<th>Outer diameter (mm)</th>
<th>Copper index (kg/Am)</th>
<th>Weight (kg/km)</th>
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#### ÖLFLEX® HEAT 125 C MC 450/750 V – colour-coded

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#### ÖLFLEX® HEAT 125 C MC 300/500 V – Black with white numbers

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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.