



ÖLFLEX® HEAT 125 SC

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

Info

- Now available in cardboard boxes
- 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

Norm references / Approvals

- Type H05Z-K und 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 5.0 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 1.0mm² 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 (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: 300/500V | | | | | | | | | | | |
| 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 | | 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: 450/750V | | | | | | | | | | | |
| 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 | | | | |

Expanded ambient temperatures • Cross-linked single cores (-55°C to +125°C)

| Conductor cross-section (mm ²) | Outer diameter (mm) | m/ring | m/box | Copper index (kg/km) | Weight (kg/km) | dark blue | white | green | yellow | violet | red |
|---|---------------------|--------|-------|----------------------|----------------|-----------|----------|---------|---------|---------|----------|
| ÖLFLEX® HEAT 125 SC - H05Z-K - U₀/U: 300/500V | | | | | | | | | | | |
| 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: 450/750V | | | | | | | | | | | |
| 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 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.

Cross-section 0.5 - 4 mm² only available as 100 m box

Accessories

- Conductor end sleeves AH, not insulated refer to page 1013
- UNIVERSAL STRIP stripping tool refer to page 1006
- KS 20 cable shears refer to page 999