

|                           |                            |                                                                                     |
|---------------------------|----------------------------|-------------------------------------------------------------------------------------|
| 1231000                   | <b>DATA SHEET</b>          |  |
| valid from:<br>12.02.2019 | <b>ÖLFLEX® HEAT 125 SC</b> |                                                                                     |

## Application

ÖLFLEX® HEAT 125 SC are heat resistant single cores, insulated with a cross-linked LSZH polyolefin copolymer compound with excellent fire characteristics and a wide temperature range. Typical applications are internal wiring of lamps, heating appliances, electric machines with insulation class B, switchboards and cabinets in apparatus, mechanical and plant engineering.

The product is approved by VDE and certified by DNV GL. These single cores are VDE-tested and according to this marked with <VDE>.

## Design

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Design                   | EN 50525-3-41 resp. VDE 0285-525-3-41                                                                       |
| Certification            | EN 50525-3-41 resp. VDE 0285-525-3-41 (H05Z-K, H07Z-K)<br>Cores without approvals: X05Z-K; X07Z-K<br>DNV GL |
| Conductor                | fine wire strands of non-porous tinned copper acc. to IEC 60228 resp. VDE 0295, Class 5                     |
| Insulation               | electron beam cross-linked polyolefin copolymer compound, halogen-free and highly flame retardant           |
| Core identification code | individual colours                                                                                          |

## Electrical properties at 20°C

|               |                    |                       |                                       |
|---------------|--------------------|-----------------------|---------------------------------------|
| Rated voltage | U <sub>0</sub> / U | ≤ 1.0 mm <sup>2</sup> | 300 / 500 V                           |
|               | U <sub>0</sub> / U | ≥ 1.5 mm <sup>2</sup> | 450 / 750 V                           |
|               | U <sub>0</sub> / U | ≥ 1.5 mm <sup>2</sup> | for fixed and protected installation: |
|               |                    |                       | 0,6 / 1 kV                            |
| Test voltage  | 4000 V AC          |                       |                                       |

## Mechanical and thermal properties

|                        |                                                                                 |                                                                                                              |
|------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | occasionally flexing:                                                           | 6 x outer diameter                                                                                           |
|                        | fixed installation:                                                             | 4 x outer diameter                                                                                           |
| Temperature range      | occasional flexing:                                                             | -35 °C up to +120 °C max. conductor temp. (20.000h, IEC 60216)                                               |
|                        | fixed installation:                                                             | -55 °C up to +125 °C max. conductor temp.<br>up to +145 °C max. conductor temp. (3000 h)                     |
|                        | Short circuit temperature:                                                      | +250 °C                                                                                                      |
| Flammability           | flame retardant acc. to                                                         | IEC 60332-1-2                                                                                                |
|                        |                                                                                 | no flame propagation acc. to IEC 60332-3-24 Cat. C or<br>IEC 60332-3-25 Cat. D (for cable with OD ≤ 12.0 mm) |
|                        |                                                                                 | Exception: 0.5 mm <sup>2</sup>                                                                               |
| Halogen free           | acc. to IEC 60754-1, EN 60754-1                                                 |                                                                                                              |
| Corrosivity of gases   | acc. to IEC 60754-2, EN 60754-2                                                 |                                                                                                              |
| Smoke density          | acc. to IEC 61034-2                                                             |                                                                                                              |
| Toxicity               | acc. to NES 02-713 (< 3), NF X 70-100                                           |                                                                                                              |
|                        | EN 50264-1 resp. VDE 0260-264-1                                                 |                                                                                                              |
| UV resistance          | acc. to EN ISO 4892-2-2013, method A (change of colour allowed)                 |                                                                                                              |
| Ozone resistance       | acc. to EN 50396 resp. VDE 0473-396, method B                                   |                                                                                                              |
| Oil resistance         | acc. to DIN EN 50290-2-22 resp. VDE 0819-102, TM54                              |                                                                                                              |
| Tests                  | acc. to IEC 60811, EN 50395                                                     |                                                                                                              |
| General requirements   | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) |                                                                                                              |

|                      |                       |             |
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| Creator: LABU / PDC  | Document: DB1231000EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 10           |             |



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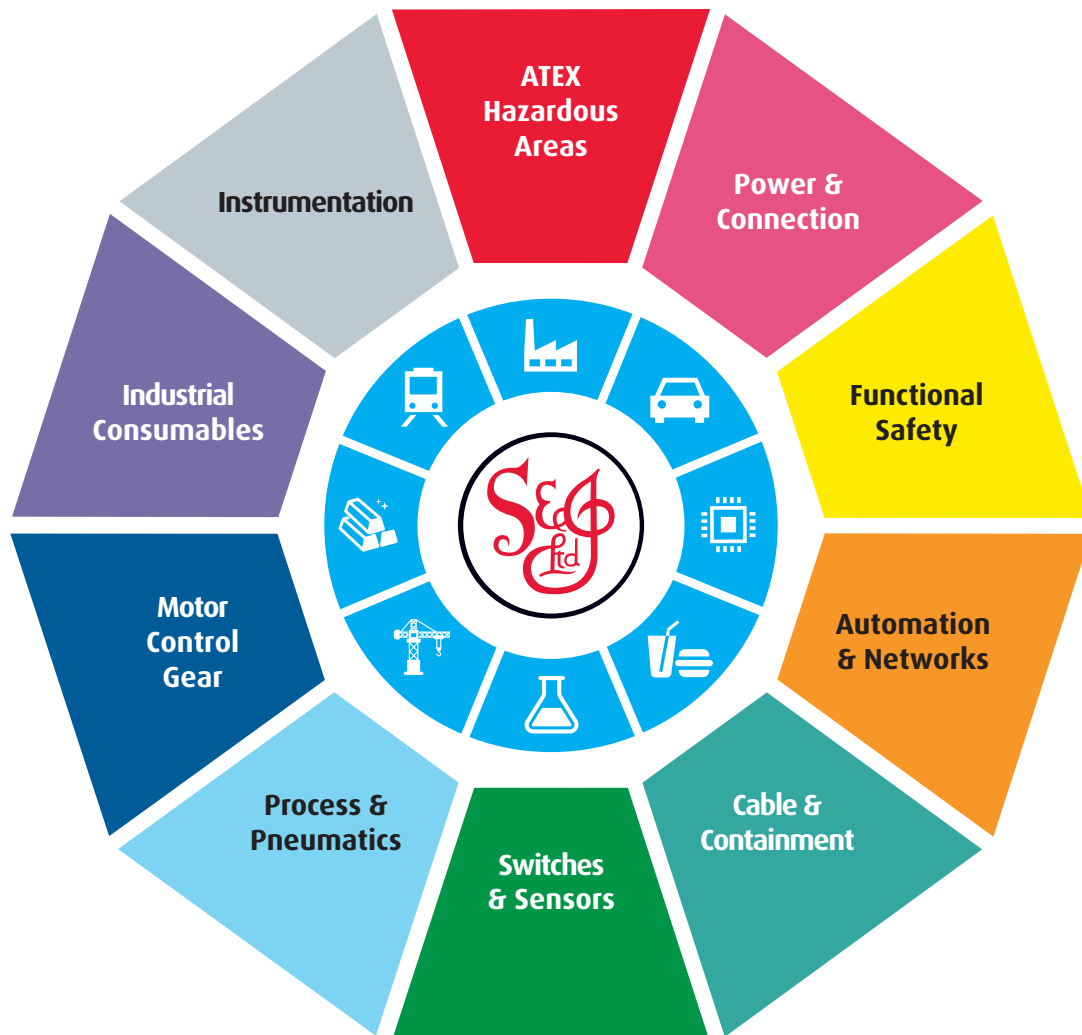
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