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| U.I. Lapp GmbH | <b>PRODUCT INFORMATION</b>  |  |
|                | <b>ÖLFLEX® HEAT 180 SiF</b> | <b>29.11.2013</b>  |

Versatile stranded conductors with extended temperature range



Halogen-free



Temperature-resistant

### Info

Flexible fine-wire copper 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

### Design

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

### Product features

Halogen-free according to IEC 60754-1  
 Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances

### Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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](http://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 are not to scale and do not represent detailed images of the respective products.

Article number index of core colours: 000 = green-yellow; 001 = black; 002 = blue; 003 = brown; 004 = beige; 005 = yellow; 006 = green; 007 = violet; 008 = pink; 009 = orange; 104 = red; 105 = white; 106 = grey

Other colours are available upon request

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| U.I. Lapp<br>GmbH | <b>PRODUCT INFORMATION</b>  |  <b>LAPP GROUP</b> |
|                   | <b>ÖLFLEX® HEAT 180 SiF</b> | <b>29.11.2013</b>  |

### Technical Data

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

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|--------------------|-----------------------------|-------|

| Part number | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter (mm) | Core colour  | Copper index (kg/km) |
|-------------|--|---------------------|--------------|----------------------|
| 0047000     | 0,25                                       | 1,9                 | green/yellow | 2.4                  |
| 0047001     | 0,25                                       | 1,9                 | black        | 2.4                  |
| 0047002     | 0,25                                       | 1,9                 | blue         | 2.4                  |
| 0047003     | 0,25                                       | 1,9                 | brown        | 2.4                  |
| 0047005     | 0,25                                       | 1,9                 | yellow       | 2.4                  |
| 0047006     | 0,25                                       | 1,9                 | green        | 2.4                  |
| 0047007     | 0,25                                       | 1,9                 | violet       | 2.4                  |
| 0047008     | 0,25                                       | 1,9                 | pink         | 2.4                  |
| 0047009     | 0,25                                       | 1,9                 | orange       | 2.4                  |
| 0047104     | 0,25                                       | 1,9                 | red          | 2.4                  |
| 0047105     | 0,25                                       | 1,9                 | white        | 2.4                  |
| 0047106     | 0,25                                       | 1,9                 | grey         | 2.4                  |
| 0048000     | 0,5  | 2,1                 | green/yellow | 4.8                  |
| 0048001     | 0,5  | 2,1                 | black        | 4.8                  |
| 0048002     | 0,5  | 2,1                 | blue         | 4.8                  |
| 0048003     | 0,5  | 2,1                 | brown        | 4.8                  |
| 0048005     | 0,5  | 2,1                 | yellow       | 4.8                  |
| 0048006     | 0,5  | 2,1                 | green        | 4.8                  |
| 0048007     | 0,5  | 2,1                 | violet       | 4.8                  |
| 0048008     | 0,5  | 2,1                 | pink         | 4.8                  |
| 0048009     | 0,5  | 2,1                 | orange       | 4.8                  |
| 0048104     | 0,5  | 2,1                 | red          | 4.8                  |
| 0048105     | 0,5  | 2,1                 | white        | 4.8                  |
| 0048106     | 0,5  | 2,1                 | grey         | 4.8                  |
| 0049000     | 0,75                                       | 2,4                 | green/yellow | 7.2                  |
| 0049001     | 0,75                                       | 2,4                 | black        | 7.2                  |
| 0049002     | 0,75                                       | 2,4                 | blue         | 7.2                  |
| 0049003     | 0,75                                       | 2,4                 | brown        | 7.2                  |
| 0049005     | 0,75                                       | 2,4                 | yellow       | 7.2                  |
| 0049006     | 0,75                                       | 2,4                 | green        | 7.2                  |
| 0049007     | 0,75                                       | 2,4                 | violet       | 7.2                  |
| 0049008     | 0,75                                       | 2,4                 | pink         | 7.2                  |
| 0049009     | 0,75                                       | 2,4                 | orange       | 7.2                  |
| 0049104     | 0,75                                       | 2,4                 | red          | 7.2                  |

| Part number | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter (mm) | Core colour  | Copper index (kg/km) |
|-------------|--|---------------------|--------------|----------------------|
| 0049105     | 0,75                                       | 2,4                 | white        | 7.2                  |
| 0049106     | 0,75                                       | 2,4                 | grey         | 7.2                  |
| 0050000     | 1  | 2,5                 | green/yellow | 9.6                  |
| 0050001     | 1  | 2,5                 | black        | 9.6                  |
| 0050002     | 1  | 2,5                 | blue         | 9.6                  |
| 0050003     | 1  | 2,5                 | brown        | 9.6                  |
| 0050004     | 1  | 2,5                 | beige        | 9.6                  |
| 0050005     | 1  | 2,5                 | yellow       | 9.6                  |
| 0050006     | 1  | 2,5                 | green        | 9.6                  |
| 0050007     | 1  | 2,5                 | violet       | 9.6                  |
| 0050008     | 1  | 2,5                 | pink         | 9.6                  |
| 0050009     | 1  | 2,5                 | orange       | 9.6                  |
| 0050104     | 1  | 2,5                 | red          | 9.6                  |
| 0050105     | 1  | 2,5                 | white        | 9.6                  |
| 0050106     | 1  | 2,5                 | grey         | 9.6                  |
| 0051000     | 1,5  | 2,8                 | green/yellow | 14.4                 |
| 0051001     | 1,5  | 2,8                 | black        | 14.4                 |
| 0051002     | 1,5  | 2,8                 | blue         | 14.4                 |
| 0051003     | 1,5  | 2,8                 | brown        | 14.4                 |
| 0051005     | 1,5  | 2,8                 | yellow       | 14.4                 |
| 0051006     | 1,5  | 2,8                 | green        | 14.4                 |
| 0051007     | 1,5  | 2,8                 | violet       | 14.4                 |
| 0051008     | 1,5  | 2,8                 | pink         | 14.4                 |
| 0051009     | 1,5  | 2,8                 | orange       | 14.4                 |
| 0051104     | 1,5  | 2,8                 | red          | 14.4                 |
| 0051105     | 1,5  | 2,8                 | white        | 14.4                 |
| 0051106     | 1,5  | 2,8                 | grey         | 14.4                 |
| 0052000     | 2,5  | 3,4                 | green/yellow | 24.0                 |
| 0052001     | 2,5  | 3,4                 | black        | 24.0                 |
| 0052002     | 2,5  | 3,4                 | blue         | 24.0                 |
| 0052003     | 2,5  | 3,4                 | brown        | 24.0                 |
| 0052005     | 2,5  | 3,4                 | yellow       | 24.0                 |
| 0052006     | 2,5  | 3,4                 | green        | 24.0                 |
| 0052007     | 2,5  | 3,4                 | violet       | 24.0                 |

| Part number | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter (mm) | Core colour  | Copper index (kg/km) |
|-------------|--|---------------------|--------------|----------------------|
| 0052104     | 2,5  | 3,4                 | red          | 24.0                 |
| 0052105     | 2,5  | 3,4                 | white        | 24.0                 |
| 0052106     | 2,5  | 3,4                 | grey         | 24.0                 |
| 0053000     | 4  | 4,2                 | green/yellow | 38.0                 |
| 0053001     | 4  | 4,2                 | black        | 38.0                 |
| 0053002     | 4  | 4,2                 | blue         | 38.0                 |
| 0053003     | 4  | 4,2                 | brown        | 38.0                 |
| 0053005     | 4  | 4,2                 | yellow       | 38.0                 |
| 0053006     | 4  | 4,2                 | green        | 38.0                 |
| 0053009     | 4  | 4,2                 | orange       | 38.0                 |
| 0053104     | 4  | 4,2                 | red          | 38.0                 |
| 0053105     | 4  | 4,2                 | white        | 38.0                 |
| 0053106     | 4  | 4,2                 | grey         | 38.0                 |
| 0054000     | 6  | 5.0                 | green/yellow | 58.0                 |
| 0054001     | 6  | 5.0                 | black        | 58.0                 |
| 0054002     | 6  | 5.0                 | blue         | 58.0                 |
| 0054003     | 6  | 5.0                 | brown        | 58.0                 |
| 0054004     | 6  | 5.0                 | beige        | 58.0                 |
| 0054005     | 6  | 5.0                 | yellow       | 58.0                 |
| 0054006     | 6  | 5.0                 | green        | 58.0                 |
| 0054104     | 6  | 5.0                 | red          | 58.0                 |
| 0054105     | 6  | 5.0                 | white        | 58.0                 |
| 0054106     | 6  | 5.0                 | grey         | 58.0                 |
| 0055000     | 10   | 6,6                 | green/yellow | 96.0                 |
| 0055001     | 10   | 6,6                 | black        | 96.0                 |
| 0055002     | 10   | 6,6                 | blue         | 96.0                 |
| 0055003     | 10   | 6,6                 | brown        | 96.0                 |
| 0055009     | 10   | 6,6                 | orange       | 96.0                 |
| 0055104     | 10   | 6,6                 | red          | 96.0                 |
| 0055106     | 10   | 6,6                 | grey         | 96.0                 |
| 0056000     | 16   | 7,4                 | green/yellow | 154.0                |
| 0056001     | 16   | 7,4                 | black        | 154.0                |
| 0056002     | 16   | 7,4                 | blue         | 154.0                |
| 0056104     | 16   | 7,4                 | red          | 154.0                |

| Part number | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter (mm) | Core colour  | Copper index (kg/km) |
|-------------|--|---------------------|--------------|----------------------|
| 0056106     | 16   | 7,4                 | grey         | 154.0                |
| 0057000     | 25   | 9,2                 | green/yellow | 240.0                |
| 0057001     | 25   | 9,2                 | black        | 240.0                |
| 0057002     | 25   | 9,2                 | blue         | 240.0                |
| 0057104     | 25   | 9,2                 | red          | 240.0                |
| 0057106     | 25   | 9,2                 | grey         | 240.0                |
| 0058000     | 35   | 10,3                | green/yellow | 336.0                |
| 0058001     | 35   | 10,3                | black        | 336.0                |
| 0058002     | 35   | 10,3                | blue         | 336.0                |
| 0058104     | 35   | 10,3                | red          | 336.0                |
| 0059000     | 50   | 12,2                | green/yellow | 480.0                |
| 0059001     | 50   | 12,2                | black        | 480.0                |
| 0059104     | 50   | 12,2                | red          | 480.0                |
| 0060000     | 70   | 14,2                | green/yellow | 672.0                |
| 0060001     | 70   | 14,2                | black        | 672.0                |
| 0060002     | 70   | 14,2                | blue         | 672.0                |
| 0061000     | 95   | 16,6                | green/yellow | 912.0                |
| 0061001     | 95   | 16,6                | black        | 912.0                |
| 0061105     | 95   | 16,6                | white        | 912.0                |
| 0062000     | 120  | 18.0                | green/yellow | 1152.0               |
| 0062001     | 120  | 18.0                | black        | 1152.0               |
| 0063001     | 150  | 20.0                | black        | 1440.0               |
| 0064001     | 185  | 22,5                | black        | 1776.0               |

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