

## Technical data sheet

PUR control cables · C-track compatible · unshielded

### LUTZE SUPERFLEX® PLUS 4000 PUR

For highest requirements



#### Identification

Type SU+ 4000 PUR 18G1,5  
Part No. [113114](#)

#### Product version

Datasheet version 03

#### Use/Application/Properties

- Application
- Machine and device construction, transport and conveyor technology, heating and climate technology
  - In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
  - As a monitoring, measurement and control cable for industrial applications
  - Especially for harsh environments
  - For installation in energy chains with constant linear movement
- Properties
- Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads
  - Low capacitance, very good electrical properties
  - Flame-retardant, self-extinguishing
  - Halogen-free, no corrosive gases
  - Very good alternating bending strength
  - Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
  - Hydrolysis-resistant, microbe-resistant, and rot-resistant
  - Weathering, ozone and UV resistant (normal lighting conditions)
  - Industrial and salt water resistant
  - Excellent coolant and lubricant resistance
  - Largely resistant to oils, greases, alcohol-free benzines and kerosene
  - Silicone free

#### Construction

Description SUPERFLEX® PLUS 4000 PUR  
Number of conductors/cross-section 18G1,5

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SYSTEMATIC TECHNOLOGY

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|                       |                          |
|-----------------------|--------------------------|
| Number of conductors  | 18                       |
| Cross-section, metric | 1.5 mm <sup>2</sup>      |
| Jacket material       | PUR                      |
| Jacket color          | grey similar to RAL 7001 |
| Outer Ø               | 14.1 mm                  |
| Weight                | 37.3 kg/100 m            |
| Weight                | 249.91 Lbs/Mft           |
| Cu-Index              | 26.9 kg/100 m            |

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### Construction Element 1

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|                      |   |
|----------------------|---|
| Element construction | 18G1,5  |
| Conductor            | CU-wire bare  |
| Conductor category   | DIN EN 60228, class 6<br>IEC 60228, Class 6<br>DIN EN 13602 |
| Conductor marking    | black · with white number print · green/yellow              |
| Conductor insulation | TPE   |
| Wrapping             | Non-woven material  |

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### Overall construction

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|                   |  |
|-------------------|--|
| Overall stranding | conductors layered construction<br>conductors twisted without mechanical stress<br>layer pitch optimised |
|-------------------|--|

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### Technical data

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|                               |                     |
|-------------------------------|---------------------|
| Rated voltage UL              | 1000 V              |
| Test voltage type             | 4000 V              |
| Temperature range moving      | -25 °C ... +90 °C   |
| Temperature range fixed       | -40 °C ... +90 °C   |
| Minimum bending radius moving | 7.5×D               |
| Minimum bending radius fixed  | 4×D                 |
| Bending cycles                | ≥10 Mio             |
| Speed                         | 5 m/s               |
| Acceleration                  | 10 m/s <sup>2</sup> |
| Torsion cycles                | ≥ 1 Mio             |
| Torsion                       | ± 60°/m             |
| Speed of torsion              | 60 °/s              |
| Acceleration of torsion       | 30 °/s <sup>2</sup> |

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### Technical Data Element 1

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|                                 |           |
|---------------------------------|-----------|
| Element construction            | 18G1,5    |
| Insulation resistance at 20 °C  | 100 MΩ×km |
| Conductor resistance            | 13.3 Ω/km |
| Operating capacitance wire-wire | 61 pF/m   |

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### Certifications/Standards

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|                               |   |
|-------------------------------|---|
| Certifications                | cURus   |
| UL style                      | AWM 21209   |
| Conformity                    | CE<br>RoHS<br>REACH   |
| Burning behavior according to | VDE 0482-332-1-2<br>DIN EN 60332-1-2<br>IEC 60332-1<br>UL 1581 part VW-1 Flame Test<br>CSA FT 1 |
| Oil resistant according to    | Oil Res II  |
| Halogen free according to     | IEC 60754-1<br>DIN EN 60754-1   |

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### General

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|------|--|
| Note | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |
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