

## Technical data sheet

PUR control cables · unshielded

### LÜTZE SILFLEX® N PUR



#### Identification

Type SI N PUR 18G0,75  
Part No. [110992](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Machine and device construction, transport and conveyor technology, heating and climate technology</li><li>• In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire</li><li>• As a monitoring, measurement and control cable for industrial applications</li><li>• Especially for harsh environments</li><li>• For flexible applications without compulsory guide</li></ul>                                                                                                                               |
| Properties  | <ul style="list-style-type: none"><li>• Low capacitance, very good electrical properties</li><li>• Very good cold flexibility</li><li>• Halogen free, no corrosive gases</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Weathering, ozone and UV resistant (normal lighting conditions)</li><li>• Industrial and salt water resistant</li><li>• Excellent coolant and lubricant resistance</li><li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li><li>• Silicone free</li></ul> |

#### Construction

|                                    |                      |
|------------------------------------|----------------------|
| Description                        | SILFLEX® N PUR       |
| Number of conductors/cross-section | 18G0.75              |
| Number of conductors               | 18                   |
| Cross-section, metric              | 0.75 mm <sup>2</sup> |
| Jacket material                    | PUR                  |

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|              |                          |
|--------------|--------------------------|
| Jacket color | grey similar to RAL 7001 |
| Outer Ø      | 11.2 mm                  |
| Surface      | adhesion-free            |
| Weight       | 23 kg/100 m              |
| Cu-Index     | 13 kg/100 m              |

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#### Construction Element 1

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|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Element construction          | 18G0.75                                                       |
| Conductor                     | CU-wire bare                                                  |
| Conductor category            | IEC 60228, Class 5<br>Finely stranded DIN VDE 0295<br>Class 5 |
| Conductor marking standard    | DIN VDE 0293                                                  |
| Conductor insulation          | Special TPE                                                   |
| Conductor insulation standard | Based on<br>VDE 0207                                          |
| Wrapping                      | Non-woven material                                            |

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#### Overall construction

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|                        |                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overall stranding      | Layered construction                                                                                                                                                                                                                                                                                                                                                          |
| Jacket characteristics | Halogen free<br>Hydrolysis-resistant<br>Microbe resistant<br>Rot resistant<br>Weather resistant<br>UV resistant (normal lighting conditions)<br>Ozone-resistant<br>Service water-resistant<br>Salt water-resistant<br>Coolant-resistant<br>Lubricant-resistant<br>Silicone free<br>Oil resistant<br>Grease-resistant<br>Petrol-resistant (alcohol-free)<br>Kerosene-resistant |

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#### Technical data

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|                               |                   |
|-------------------------------|-------------------|
| Rated voltage $U_0/U$         | 300/500 V         |
| Test voltage type             | AC 3000 V         |
| Temperature range moving      | -25 °C ... +80 °C |
| Temperature range fixed       | -40 °C ... +80 °C |
| Minimum bending radius moving | 10×D              |
| Minimum bending radius fixed  | 4×D               |

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#### Technical Data Element 1

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|                                |            |
|--------------------------------|------------|
| Element construction           | 18G0.75    |
| Insulation resistance at 20 °C | ≥100 MΩ×km |

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Operating capacitance wire-wire      approx.61 pF/m

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#### Certifications/Standards

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|                           |                               |
|---------------------------|-------------------------------|
| Conformity                | CE<br>RoHS<br>REACH           |
| 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 |
|------|----------------------------------------------------------------------------------|