

## Technical data sheet

### PUR actuator-sensor cables · C-track suitable

#### LÜTZE SUPERFLEX® TRONIC AS (C) PUR, shielded For highest requirements



#### Identification

Type SU TR AS (C) PUR (4×0,34)  
Part No. [117254.2000](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Connecting cable for the actuator-sensor technology</li><li>• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture</li><li>• PUR jacket optimally suited for harsh operating conditions and aggressive coolants and lubricants</li></ul>                                                                                                                                                                                                                                                                    |
| Properties  | <ul style="list-style-type: none"><li>• Very good alternating bending strength</li><li>• High protection against electromagnetic interferences (EMI)</li><li>• Good pressure and roll-over resistance</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                        | SUPERFLEX® TRONIC AS (C) PUR |
| Number of conductors/cross-section | (4×0.34)                     |
| Number of conductors               | 4                            |
| Cross-section, metric              | 0.34 mm <sup>2</sup>         |
| Cross-section AWG                  | AWG 22                       |
| Jacket material                    | PUR                          |

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|              |                           |
|--------------|---------------------------|
| Jacket color | black similar to RAL 9005 |
| Outer Ø      | 5.1 mm                    |
| Outer Ø      | 0.201 inch                |
| Surface      | adhesion-free, matte      |
| Weight       | 4 kg/100 m                |
| Weight       | 26.8 Lbs/Mft              |
| Cu-Index     | 2.4 kg/100 m              |
| Cu-Index     | 16 Lbs/Mft                |

#### Construction Element 1

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Element construction | (4×,34)                                                            |
| Conductor            | CU-wire bare                                                       |
| Conductor category   | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>Class 6 |
| Conductor marking    | individual                                                         |
| Conductor insulation | TPE                                                                |

#### Overall construction

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overall stranding      | Conductors layered construction<br>Layer pitch optimised<br>Conductors twisted without mechanical stress                                                                                                                                                                                                                                                                                                                                       |
| Overall wrapping       | Non-woven material                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Overall shield         | Braid shield<br>Tinned copper wires<br>Optical cover approx. 85 %                                                                                                                                                                                                                                                                                                                                                                              |
| Jacket characteristics | Low-adhesion<br>Abrasion resistant<br>Tough<br>Tear resistant<br>Hydrolysis-resistant<br>Microbe resistant<br>Rot resistant<br>Weather resistant<br>Ozone-resistant<br>UV resistant (normal lighting conditions)<br>Service water-resistant<br>Salt water-resistant<br>Coolant-resistant<br>Lubricant-resistant<br>Oil resistant<br>Grease-resistant<br>Petrol-resistant (alcohol-free)<br>Kerosene-resistant<br>Silicone free<br>Halogen free |

#### Technical data

|                   |           |
|-------------------|-----------|
| Rated voltage     | 300 V     |
| Test voltage type | AC 1500 V |

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|                               |                   |
|-------------------------------|-------------------|
| Temperature according to UL   | 80 °C             |
| Temperature range moving      | -20 °C ... +80 °C |
| Temperature range fixed       | -40 °C ... +80 °C |
| Minimum bending radius moving | 12×D              |
| Minimum bending radius fixed  | 6×D               |
| Bending cycles                | ≥5 Mio            |
| Travel distance               | ≤20 m             |
| Speed                         | ≤4                |
| Acceleration                  | ≤5                |

#### Technical Data Element 1

|                                   |            |
|-----------------------------------|------------|
| Element construction              | (4×,34)    |
| Insulation resistance at 20 °C    | ≥100 MΩ×km |
| Conductor resistance              | ≤65.3 Ω/km |
| Operating capacitance wire-wire   | ≤105 pF/m  |
| Operating capacitance wire-shield | ≤205 pF/m  |

#### Certifications/Standards

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Certifications                | cURus                                                            |
| UL style                      | AWM 20549                                                        |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                                      |
| Burning behavior according to | DIN EN 60332-2-2<br>UL 1581<br>Horizontal Flame Test<br>CSA FT 1 |
| Oil resistant according to    | UL 758<br>UL 4d100C<br>DIN EN 60811-404                          |
| Halogen free according to     | EN 60754-1<br>VDE 0482-754-1                                     |

#### General

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