

## Technical data sheet

PUR electronic cables · C-track compatible · Shielded

**LÜTZE SUPERFLEX® TRONIC (C) PUR**  
Shielded electronic cable UL recognized  
For highest requirements



### Identification

Type SU TR (C) PUR (5×0,25)  
Part No. [117102](#)

### Product version

Datasheet version 00

### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• C-track as well as everywhere where signals are transmitted to continuously moving system or machine parts</li><li>• Machine and device construction, transport and conveyor technology, heating and climate technology</li><li>• In dry and damp rooms</li><li>• As monitoring, measurement and control cable for continuous bending loads</li><li>• Especially for industrial environments with high EMI potential in machine, plant and device construction</li></ul>                                                                                                                                                                                                                             |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Braided shield optimised for continuous flexing use</li><li>• Low capacitance, very good electrical properties</li><li>• Flame retardant, self extinguishing</li><li>• Halogen free, no corrosive gases</li><li>• Very good alternating bending strength</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</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 (C) PUR

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Part No. [117102](#) • Datasheet version: 00

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|                                    |                          |
|------------------------------------|--------------------------|
| Number of conductors/cross-section | (5×0.25)                 |
| Number of conductors               | 5                        |
| Cross-section, metric              | 0.25 mm <sup>2</sup>     |
| Cross-section AWG                  | AWG 24                   |
| Jacket material                    | PUR                      |
| Jacket color                       | grey similar to RAL 7001 |
| Outer Ø                            | 5.3 mm                   |
| Outer Ø                            | 0.201 inch               |
| Surface                            | adhesion-free            |
| Weight                             | 3.7 kg/100 m             |
| Weight                             | 27 Lbs/Mft               |
| Cu-Index                           | 2.3 kg/100 m             |
| Cu-Index                           | 15 Lbs/Mft               |

#### Construction Element 1

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Element construction       | (5 × 0.25)                                                         |
| Conductor                  | CU-wire bare                                                       |
| Conductor category         | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>Class 6 |
| Conductor marking          | Color coded                                                        |
| Conductor marking standard | DIN 47100                                                          |
| Conductor insulation       | Special 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 | Flame-retardant<br>Self-extinguishing<br>Halogen free<br>Oil resistant<br>Grease-resistant<br>Petrol-resistant (alcohol-free)<br>Kerosene-resistant<br>Silicone free |

#### Technical data

|                             |                   |
|-----------------------------|-------------------|
| Rated voltage               | 300 V             |
| Test voltage type           | AC 1500 V         |
| Temperature according to UL | 80 °C             |
| Temperature range moving    | -25 °C ... +80 °C |
| Temperature range fixed     | -40 °C ... +80 °C |

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|                               |                    |
|-------------------------------|--------------------|
| Minimum bending radius moving | 12×D               |
| Minimum bending radius fixed  | 6×D                |
| Bending cycles                | ≥5 Mio             |
| Travel distance               | ≤20 m              |
| Speed                         | 4 m/s              |
| Acceleration                  | 5 m/s <sup>2</sup> |

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### Technical Data Element 1

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|                                |             |
|--------------------------------|-------------|
| Element construction           | (5 × 0.25)  |
| Insulation resistance at 20 °C | ≥1000 MΩ×km |

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### Certifications/Standards

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|                               |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Certifications                | cURus                                                                           |
| UL style                      | AWM 20549                                                                       |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                                                     |
| Burning behavior according to | IEC 60332-2-2<br>DIN EN 60332-2-2<br>UL 1581<br>Horizontal Flame Test<br>UL FT2 |
| Oil resistant according to    | DIN EN 50363-10-2                                                               |
| Halogen free according to     | IEC 60754-1<br>DIN EN 60754-1                                                   |
| UV-resistant according to     | UL 1581/2556-300h                                                               |

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