

# Technical data sheet · LÜTZE SUPERFLEX<sup>®</sup> TRONIC (C) PUR TP

## Shielded electronic cable UL recognized, paired

### For highest requirements



PUR electronic cables · C-track compatible ·  
Shielded

|                       |          |                            |
|-----------------------|----------|----------------------------|
| <b>Identification</b> | Type     | SU TR (C) PUR TP (2×2×0,5) |
|                       | Part-No. | 117190                     |

#### 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, climate technology</li><li>• In dry and damp rooms</li><li>• As monitoring, measurement and control cable for continuous flexing applications</li><li>• Especially for industrial environments with high EMI potential in machine, plant and device construction</li></ul> |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

17.04.2020 – Subject to technical modification

Part-No. 117190

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|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties | <ul style="list-style-type: none"><li>• High active and passive interference resistance (EMC)</li><li>• High crosstalk attenuation due to twisted pairs</li><li>• Braided shield optimised for continuous flexing applications</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>• Good ruggedness and salt water resistance</li><li>• Excellent coolant and lubricant resistance</li><li>• Resistant to most oils, greases, alcohol-free benzines and kerosene</li><li>• Silicone free</li><li>• RoHS-compliant</li></ul> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Construction

|                                    |                              |
|------------------------------------|------------------------------|
| Description                        | SUPERFLEX® TRONIC (C) PUR TP |
| Number of conductors/cross-section | (2×2×0.5)                    |
| Cross-section AWG                  | AWG 21                       |
| Cross-section, metric              | 0.5 mm²                      |
| Jacket material                    | PUR                          |
| Jacket color                       | grey RAL 7001                |
| Outer Ø                            | 7.1 mm                       |
| Outer Ø                            | 0.28 inch                    |
| Surface                            | adhesion-free<br>matt        |
| Weight                             | 5.9 kg/100 m                 |
| Cu-Index                           | 3.4 kg/100 m                 |

#### Element 1

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Element construction       | (2×2×0.5)                                                          |
| 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

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SYSTEMATIC TECHNOLOGY

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|                        |                                                                                                                                                                      |
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| Overall stranding      | stranded pairs<br>layer pitch optimised<br>conductors twisted without mechanical stress                                                                              |
| Overall wrapping       | Fleece taping                                                                                                                                                        |
| 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 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 |
| Minimum bending radius moving | 12×D              |
| Minimum bending radius fixed  | 6×D               |

#### Element 1

|                                |            |
|--------------------------------|------------|
| Element construction           | (2×2×0.5)  |
| Insulation resistance at 20 °C | 1000 MΩ×km |

#### Certifications/Standards

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| Certifications                | cURus                                                                              |
| Conformity                    | CE<br>RoHS                                                                         |
| Burning behavior according to | IEC 60332-2-2<br>DIN EN 60332-2-2<br>UL 1581<br>UL 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     | UL1581/2556-300h                                                                   |

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#### General

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|      |                                                                                  |
|------|----------------------------------------------------------------------------------|
| Note | UL AWM Style 20233 or UL AWM Style 20549                                         |
| Note | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |

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#### Logo



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