

# 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)P TP(12×2×0,25) |
|                       | Part-No. | 117176                  |

#### Use/Application/Characteristics

Application

- Robots, drag chains as well as everywhere where signals are transmitted to continuously moving system or machine parts
- Machine and device construction, transport and conveyor technology, heating, climate technology
- In dry and damp rooms
- As monitoring, measurement and control cable for continuous flexing applications
- Especially for industrial environments with high EMI potential in machine, plant and device construction

28.04.2017 – Subject to technical modification

Part-No. 117176

USA: LUTZE INC.

13330 South Ridge Drive · Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 · Fax +1 (704) 504-0223  
www.lutze.com · info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington · GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 · Fax +44 (0)1827 31333-2  
www.lutze.com · sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

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

## Shielded electronic cable UL recognized, paired

### For highest requirements

|                 |   |
|-----------------|---|
| Characteristics | <ul style="list-style-type: none"> <li>• High active and passive interference resistance (EMC)</li> <li>• High crosstalk attenuation through twisted pairs</li> <li>• Braided shield optimized 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 flexing strength</li> <li>• Low adhesion, Abrasion-resistant, Tear resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Good resistance to wear and salt water</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Largely resistant to 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 | (12×2×0.25)                 |
| Jacket material                    | PUR                         |
| Jacket color                       | grey RAL 7001               |
| Outer Ø                            | 10.8 mm                     |
| Outer Ø                            | 0.425 inches                |
| Surface                            | adhesion-free<br>matt       |
| Weight                             | 14.1 kg/100 m               |
| Weight                             | 132.7 Lbs/Mft               |
| Cu-Index                           | 9.1 kg/100 m                |
| Cu-Index                           | 61 Lbs/Mft                  |

#### Element 1

|                            |  |
|----------------------------|--|
| Element construction       | (12×2×0.25)  |
| Conductor                  | CU-wire bare   |
| Conductor category         | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>class 6 |
| Conductor marking          | Colour coded   |
| Conductor marking standard | DIN 47100  |
| Conductor insulation       | Special TPE  |

#### overall construction

|                   |   |
|-------------------|---|
| Overall stranding | stranded pairs<br>layer pitch optimised |
|-------------------|---|

28.04.2017 – Subject to technical modification

Part-No. 117176

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · LÜTZE SUPERFLEX® TRONIC (C) PUR TP

## Shielded electronic cable UL recognized, paired

### For highest requirements

|                        |  |
|------------------------|--|
| 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 3000 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          | (12×2×0.25) |
| Insulation resistance at 20°C | 1000 MΩ×km  |

#### Approvals/Standards

|                               |   |
|-------------------------------|---|
| Approvals                     | cURus   |
| UL style                      | AWM 20233   |
| Conformity                    | CE<br>RoHS  |
| Burning behavior according to | IEC 60332-1<br>DIN EN 60332-1-2<br>VDE 0482 322-1-2<br>UL 1581 cable flame<br>UL VW-1<br>UL FT1 |
| Oil resistant according to    | DIN EN 60811-404<br>C22.2 Nr. 210 AWM II  |
| Halogen free according to     | IEC 60754-1<br>DIN EN 60754-1   |

28.04.2017 – Subject to technical modification

Part-No. 117176

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · LÜTZE SUPERFLEX® TRONIC (C) PUR TP

## Shielded electronic cable UL recognized, paired

### For highest requirements

#### General

Note

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

#### Symbols



28.04.2017 – Subject to technical modification

Part-No. 117176

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk