

## Technical data sheet

PUR electronic cables · C-track compatible · Shielded

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



### Identification

Type SU TR (C) PUR TP (3×2×0,25)  
Part No. [117171](#)

### 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>• High crosstalk attenuation through paired stranding</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 TP

#### 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](http://www.lutze.com) • [sales.gb@lutze.co.uk](mailto:sales.gb@lutze.co.uk)

#### Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt  
Tel. +49 (0)7151 6053-0 • Fax +49 (0)7151 6053-277(-288)  
[www.luetze.de](http://www.luetze.de) • [info@luetze.de](mailto:info@luetze.de)

14.04.2023 • Subject to technical modification

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Number of conductors/cross-section	(3×2×0.25)
Number of conductors	6
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	6.5 mm
Outer Ø	0.256 inch
Surface	adhesion-free, matte
Weight	5 kg/100 m
Weight	46.2 Lbs/Mft
Cu-Index	2.8 kg/100 m
Cu-Index	19 Lbs/Mft

#### Construction Element 1

Element construction	(3 × 2 × 0.25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	Color coded
Conductor marking standard	DIN 47100
Conductor insulation	Special TPE

#### Overall construction

Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Halogen free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant 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	(3 × 2 × 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 RoHS REACH TSCA
Burning behavior according to	IEC 60332-2-2 DIN EN 60332-2-2 UL 1581 UL Horizontal Flame Test UL FT2
Oil resistant according to	DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 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
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