

# 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(4×2×0,25)
	Part-No.	117172

#### 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. 117172

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  
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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>
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#### Construction

Description	SUPERFLEX TRONIC (C) PUR TP
Number of conductors/cross-section	(4×2×0.25)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	6.8 mm
Outer Ø	0.268 inches
Surface	adhesion-free matt
Weight	5.7 kg/100 m
Weight	50.9 Lbs/Mft
Cu-Index	3.4 kg/100 m
Cu-Index	23 Lbs/Mft

#### Element 1

Element construction	(4×2×0.25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	Colour coded
Conductor marking standard	DIN 47100
Conductor insulation	Special TPE

#### overall construction

Overall stranding	stranded pairs layer pitch optimised
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SYSTEMATIC TECHNOLOGY

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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 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	(4×2×0.25)
Insulation resistance at 20°C	1000 MΩ×km

#### Approvals/Standards

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

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#### General

Note

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

#### Symbols



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