

## 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 (10×2×0,25)  
Part No. [117175](#)

### Product version

Datasheet version 00

### Use/Application/Properties

- Application
- C-track as well as everywhere where signals are transmitted to continuously moving system or machine parts
  - Machine and device construction, transport and conveyor technology, heating and climate technology
  - In dry and damp rooms
  - As monitoring, measurement and control cable for continuous bending loads
  - Especially for industrial environments with high EMI potential in machine, plant and device construction
- Properties
- High active and passive interference resistance (EMC)
  - High crosstalk attenuation through paired stranding
  - Braided shield optimised for continuous flexing use
  - Low capacitance, very good electrical properties
  - Flame-retardant, self-extinguishing
  - Halogen-free, no corrosive gases
  - Very good alternating bending strength
  - Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
  - Hydrolysis-resistant, microbe-resistant, and rot-resistant
  - industrial- and salt water resistant
  - Excellent coolant and lubricant resistance
  - Largely resistant to oils, greases, alcohol-free benzines and kerosene
  - Silicone free
  - RoHS compliant

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### Construction

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Description	SUPERFLEX <sup>®</sup> TRONIC (C) PUR TP
Number of conductors/cross-section	(10×2×0.25)
Number of conductors	20
Cross-section, metric	0.25 mm <sup>2</sup>
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	10.5 mm
Outer Ø	0.413 inch
Surface	adhesion-free, matte
Weight	12.4 kg/100 m
Weight	121.9 Lbs/Mft
Cu-Index	7.9 kg/100 m
Cu-Index	53 Lbs/Mft

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### Construction Element 1

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Element construction	(10 × 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

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### Overall construction

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Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Fleece taping
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

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### Technical data

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Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	80 °C

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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
Bending cycles	≥5 Mio
Travel distance	≤20 m
Speed	≤4
Acceleration	≤5

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### Technical Data Element 1

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Element construction	(10 × 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
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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