

**Technical data sheet · LÜTZE SUPERFLEX<sup>®</sup> TRONIC PUR**  
**Unshielded electronic cable UL recognized**  
**For highest requirements**



**PUR electronic cables · C-track compatible · Unshielded**

<b>Identification</b>	Type	SU TR PUR 5×0,25
	Part-No.	117042

**Use/Application/Characteristics**

Application	<ul style="list-style-type: none"> <li>• Robots, drag chains 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> </ul>
Characteristics	<ul style="list-style-type: none"> <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, 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**

28.04.2017 – Subject to technical modification

Part-No. 117042

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SYSTEMATIC TECHNOLOGY

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Description	SUPERFLEX TRONIC PUR
Number of conductors/cross-section	5×0.25
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	4.7 mm
Outer Ø	0.185 inches
Surface	adhesion-free matt
Weight	2.9 kg/100 m
Weight	19 Lbs/Mft
Cu-Index	1.3 kg/100 m
Cu-Index	8 Lbs/Mft

#### Element 1

Element construction	5×0.25
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	Conductors stranded layers layer pitch optimised Conductors twisted without mechanical stress
Overall wrapping	Non-woven material
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

Rated voltage	300 V
Test voltage type	AC 3000 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	10×D
Minimum bending radius fixed	4×D

#### Element 1

Element construction	5×0.25
Insulation resistance at 20°C	1000 MΩ×km

#### Approvals/Standards

Approvals	UR
UL style	AWM 20549
Conformity	CE RoHS
Burning behavior according to	DIN EN 60332-2-2 UL 1581 Horizontal Flame Test
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

#### General

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

#### Symbols



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