

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

## Shielded electronic cable UL recognized

### For highest requirements



PUR electronic cables · C-track compatible · Shielded

<b>Identification</b>	Type	SU TR(C)PUR(7×0,14)
	Part-No.	117094

#### 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><li>• Especially for industrial environments with high EMI potential in machine, plant and device construction</li></ul>
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27.01.2017 – Subject to technical modification

Part-No. 117094

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

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Characteristics	<ul style="list-style-type: none"> <li>• High active and passive interference resistance (EMC)</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
Number of conductors/cross-section	(7×0.14)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	5.5 mm
Surface	adhesion-free matt
Weight	3.9 kg/100 m
Cu-Index	2.1 kg/100 m

#### Element 1

Element construction	(7×0,14)
Conductor	CU-wire bare
Conductor category	DIN EN 60228, class 6 DIN EN 13602 Superfinely stranded DIN VDE 0295
Conductor marking	Colour coded
Conductor marking standard	DIN 47100
Conductor insulation	Special TPE

#### overall construction

Overall stranding	Conductors stranded layers schlaglängenoptimiert Conductors twisted without mechanical stress
Overall wrapping	Non-woven material

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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	(7×0,14)
Insulation resistance at 20°C	1000.0 MΩ×km

#### Approvals/Standards

Approvals	UR
UL style	AWM 20549
Conformity	CE RoHS
Burning behavior	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
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#### Symbols

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