Technical data sheet · LÜTZE SUPERFLEX® TRONIC (C) PUR
Shielded electronic cable UL recognized
For highest requirements

PUR electronic cables · C-track compatible · Shielded

Identification	Type	SU TR(C)PUR(3×0,34)
	Part-No.	117109

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

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SYSTEMATIC TECHNOLOGY

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Characteristics	• High active and passive interference resistance (EMC) • Braided shield optimized for continuous flexing applications • Low capacitance, very good electrical properties • Flame-retardant, self-extinguishing • Halogen-free, no corrosive gases • Very good flexing strength • Low adhesion, Abrasion-resistant, Tear resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Good resistance to wear and salt water • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS-compliant

Construction	
Description	SUPERFLEX TRONIC (C) PUR
Number of conductors/cross-section	(3×0.34)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer ∅	4.7 mm
Outer ∅	0.185 inches
Surface	adhesion-free matt
Weight	2.1 kg/100 m
Weight	23 Lbs/Mft
Cu-Index	1.9 kg/100 m
Cu-Index	13 Lbs/Mft
Element 1	
Element construction	(3×0.34)
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

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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	(3×0.34)
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

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Symbols

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