

Technical data sheet - LÜTZE SUPERFLEX[®] TRONIC (C) PUR TP

Shielded electronic cable UL recognized, paired

For highest requirements



PUR electronic cables · C-track compatible · Shielded

Identification	Type	SU TR(C)P TP(3×2×0,25)
	Part-No.	117171

Use/Application/Properties

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

03.04.2017 – Subject to technical modification

Part-No. 117171

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SYSTEMATIC TECHNOLOGY

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Properties	<ul style="list-style-type: none"> • High active and passive interference resistance (EMC) • High crosstalk attenuation due to twisted pairs • Braided shield optimised for continuous flexing applications • 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 • Good ruggedness and salt water resistance • Excellent coolant and lubricant resistance • Resistant to most oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS-compliant
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Construction

Description	SUPERFLEX TRONIC (C) PUR TP
Number of conductors/cross-section	(3×2×0.25)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	6.5 mm
Outer Ø	0.256 inches
Surface	adhesion-free matt
Weight	5 kg/100 m
Weight	46.2 Lbs/Mft
Cu-Index	2.8 kg/100 m
Cu-Index	19 Lbs/Mft

Element 1

Element construction	(3×2×0.25)
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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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	(3×2×0.25)
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

Logo



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