

## Technical data sheet

PUR control cables · C-track compatible · shielded

### LÜTZE SUPERFLEX® PLUS 3100 (C) PUR

For highest requirements



#### Identification

Type SU+ 3100 (C) PUR 3G1,0  
Part No. [113087](#)

#### Product version

Datasheet version 02

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Machine and device construction, transport and conveyor technology, heating and climate technology</li><li>• In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire</li><li>• As a monitoring, measurement and control cable for industrial applications</li><li>• Especially for harsh environments</li><li>• For installation in energy chains with constant linear movement</li></ul>                                                                                                                                                                                                                                    |
| Properties  | <ul style="list-style-type: none"><li>• Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads</li><li>• Low capacitance, very good electrical properties</li><li>• Flame retardant, self extinguishing</li><li>• Very good alternating bending strength</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Weathering, ozone and UV resistant (normal lighting conditions)</li><li>• Industrial and salt water resistant</li><li>• Excellent coolant and lubricant resistance</li><li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li><li>• Silicone free</li></ul> |

#### Construction

Description SUPERFLEX® PLUS 3100 (C) PUR  
Number of conductors/cross-section (3G1,0)  
Number of conductors 3

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Cross-section, metric	1 mm <sup>2</sup>
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	7.8 mm
Weight	8.9 kg/100 m
Weight	59.81 Lbs/Mft
Cu-Index	4.6 kg/100 m

#### Construction Element 1

Element construction	(3G1,0)
Conductor	CU-wire bare
Conductor category	DIN EN 60228, Class 6 IEC 60228, Class 6 DIN EN 13602
Conductor marking standard	DIN VDE 0293
Conductor insulation	TPE
Stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised

#### Overall construction

Overall stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %

#### Technical data

Rated voltage U <sub>0</sub> /U	300/500V
Rated voltage UL	300 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	10 m/s <sup>2</sup>
Torsion cycles	≥ 1 Mio
Torsion	± 30°/m
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s <sup>2</sup>

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### Technical Data Element 1

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Element construction	(3G1,0)
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	19.5 Ω/km
Operating capacitance wire-wire	78 pF/m
Operating capacitance wire-shield	117 pF/m

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### Certifications/Standards

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Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part VW-1 Flame Test CSA FT 1
Oil resistant according to	Oil Res II
Halogen free according to	IEC 60754-1 DIN EN 60754-1

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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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