

## Technical data sheet

PUR control cables · C-track compatible · unshielded

### LUTZE SUPERFLEX® PLUS 3000 PUR

For highest requirements



#### Identification

Type SU+ 3000 PUR 7G0,5  
Part No. [113036](#)

#### Product version

Datasheet version 02

#### Use/Application/Properties

- Application
- Machine and device construction, transport and conveyor technology, heating and climate technology
  - In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
  - As a monitoring, measurement and control cable for industrial applications
  - Especially for harsh environments
  - For installation in energy chains with constant linear movement
- Properties
- Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads
  - Low capacitance, very good electrical properties
  - Flame-retardant, self-extinguishing
  - Very good alternating bending strength
  - Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
  - Hydrolysis-resistant, microbe-resistant, and rot-resistant
  - Weathering, ozone and UV resistant (normal lighting conditions)
  - Industrial and salt water resistant
  - Excellent coolant and lubricant resistance
  - Largely resistant to oils, greases, alcohol-free benzines and kerosene
  - Silicone free

#### Construction

Description SUPERFLEX® PLUS 3000 PUR  
Number of conductors/cross-section 7G0,5  
Number of conductors 7

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Part No. [113036](#) · Datasheet version: 02

page 1 of 3



SYSTEMATIC TECHNOLOGY

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Cross-section, metric	0.5 mm <sup>2</sup>
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	6.7 mm
Weight	6.48 kg/100 m
Weight	43.42 Lbs/Mft
Cu-Index	3.4 kg/100 m

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### Construction Element 1

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Element construction	7G0,5
Conductor	CU-wire bare
Conductor category	DIN EN 60228, class 6 IEC 60228, Class 6 DIN EN 13602
Conductor marking	black · with white number print · green/yellow
Conductor insulation	TPE
Stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised

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### Overall construction

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Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
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### Technical data

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Rated voltage U <sub>0</sub> /U	300/500 V
Rated voltage UL	300 V
Test voltage type	2000 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	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	10 m/s <sup>2</sup>
Torsion cycles	≥ 1 Mio
Torsion	± 60°/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	7G0,5
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	39 Ω/km
Operating capacitance wire-wire	56 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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