

# Technical data sheet · LÜTZE SUPERFLEX® PLUS N PUR 300 V

## For highest requirements



PUR control cables · C-track compatible · unshielded

<b>Identification</b>	Type	SU+N PUR 12G0,5 UL 300V
	Part-No.	113446

### Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Machine and device construction, transport and conveyor technology, HVAC 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 rough environments</li> <li>• For installation in energy chains with constant linear movement</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>• Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads</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, nick-resistant, tear resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weatherproof, ozone and UV resistant (normal lighting conditions)</li> <li>• Good ruggedness and salt water resistance</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Resistant to most oils, greases, alcohol-free benzines and kerosene</li> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>

28.04.2017 – Subject to technical modification

Part-No. 113446

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

# Technical data sheet · LÜTZE SUPERFLEX® PLUS N PUR 300 V

## For highest requirements

---

### Construction

---

Description	SUPERFLEX+ N PUR 300V
Number of conductors/cross-section	12G0.5
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	8 mm
Outer Ø	0.315 inches
Weight	9.7 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	5.9 kg/100 m
Cu-Index	40 Lbs/Mft

### Element 1

Element construction	12G0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black with white number print green/yellow
Conductor insulation	Special TPE

### overall construction

Overall stranding	Conductors stranded layers layer pitch optimised Conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant self-extinguishing Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

---

### Technical data

---

Rated voltage $U_0/U$	300/500 V
Rated voltage UL	300 V
Test voltage type	AC 3000 V

28.04.2017 – Subject to technical modification

Part-No. 113446

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

# Technical data sheet · LÜTZE SUPERFLEX<sup>®</sup> PLUS N PUR 300 V

## For highest requirements

---

Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Travel distance	≤100 m

### Element 1

Element construction	12G0.5
Insulation resistance at 20°C	1000 MΩ×km
Operating capacitance Ader-Ader	71 pF/m
Operating capacitance wire-shield	103 pF/m

---

### Approvals/Standards

Approvals	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1
Oil resistant according to	Oil Res II
Halogen free according to	DIN EN 60754-1

---

### General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

---

### Symbols



28.04.2017 – Subject to technical modification

Part-No. 113446

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

Technical data sheet · LÜTZE SUPERFLEX® PLUS N PUR 300 V  
For highest requirements

---



28.04.2017 – Subject to technical modification

Part-No. 113446

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