

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

## For highest requirements



PUR control cables · C-track compatible · shielded

<b>Identification</b>	Type	SU+N(C)PUR(7G1,0) UL 300V
	Part-No.	113314

### 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><li>• Anywhere where electrical interference fields can influence the signal transmission</li></ul>
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28.04.2017 – Subject to technical modification

Part-No. 113314

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SYSTEMATIC TECHNOLOGY

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Characteristics	<ul style="list-style-type: none"> <li>• Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads</li> <li>• High active and passive interference resistance (EMC)</li> <li>• Braided shield optimized for continuous flexing applications</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, Tear resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weathering, ozone and UV resistant (normal lighting conditions)</li> <li>• Good resistance to wear and salt water</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>
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### Construction

Description	SUPERFLEX PLUS N (C) PUR 300 V
Number of conductors/cross-section	(7G1.0)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	10.2 mm
Outer Ø	0.402 inches
Weight	14.7 kg/100 m
Weight	104.8 Lbs/Mft
Cu-Index	9.1 kg/100 m
Cu-Index	61 Lbs/Mft

### Element 1

Element construction	(7G1.0)
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

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Overall stranding	Conductors stranded layers layer pitch optimised Conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield Tinned copper wires optical cover approx. 85%
Jacket characteristics	Flame-retardant self-extinguishing Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

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### Technical data

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Rated voltage $U_0/U$	300/500 V
Rated voltage UL	300 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

### Element 1

Element construction	(7G1.0)
Insulation resistance at 20°C	1000 MΩ×km
Operating capacitance Ader-Ader	81 pF/m
Operating capacitance wire-shield	117 pF/m

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### Approvals/Standards

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

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Halogen free according to

DIN EN 60754-1  
IEC 60754-1

### General

Note

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

### Symbols



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