

# Technical data sheet · LÜTZE SILFLEX®N (C) PUR

PUR control cables · shielded



<b>Identification</b>	Type	SI N(C)PUR(18G0,5)
	Part-No.	111658

## 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 flexible applications without continuous flexing</li><li>• Anywhere where electrical interference fields can influence the signal transmission</li></ul>
Characteristics	<ul style="list-style-type: none"><li>• The overall shield of braided copper wires prevents both the interference of signals and measured values as well as the radiation of interfering signals</li><li>• High active and passive interference resistance (EMC)</li><li>• Low capacitance, very good electrical properties</li><li>• Flexible in cold environments</li><li>• Halogen-free, no corrosive gases</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>

27.01.2017 – Subject to technical modification

Part-No. 111658

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## Construction

Description	Silfex N (C) PUR
Number of conductors/cross-section	(18G0.5)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	10.8 mm
Surface	adhesion-free matt
Weight	20.6 kg/100 m
Cu-Index	12.4 kg/100 m

## Element 1

Element construction	(18G0,5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 DIN EN 13602 Finely stranded DIN VDE 0295
Conductor marking	black with white print green/yellow
Conductor insulation	Special TPE
Conductor insulation standard	in Anlehnung an VDE 0207

## overall construction

Overall stranding	stranded layers
Overall shield	Braid shield Tinned copper wires optical cover approx. 85%
Jacket characteristics	Halogen free hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free

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SYSTEMATIC TECHNOLOGY

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## Technical data

Rated voltage $U_0/U$	300/500 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	15×D
Minimum bending radius fixed	6×D

## Element 1

Element construction	(18G0,5)
Insulation resistance at 20°C	100.0 MΩ×km
Operating capacitance Ader-Ader	74 pF/m
Operating capacitance wire-shield	120 pF/m

## Approvals/Standards

Conformity	CE RoHS
Halogen free according to	IEC 60754-1 DIN EN 60754-1

## General

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



CE



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