

# Technical data sheet · LUTZE-SILFLEX® N PUR

PUR control cables · unshielded



<b>Identification</b>	Type	SI N PUR 4G0,5
	Part-No.	110457

## 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></ul>
Characteristics	<ul style="list-style-type: none"><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, 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>

## Construction

Description	Silflex N PUR
Number of conductors/cross-section	4G0.5

27.01.2017 – Subject to technical modification

Part-No. 110457

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SYSTEMATIC TECHNOLOGY

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Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	5.1 mm
Surface	adhesion-free matt
Weight	4 kg/100 m
Cu-Index	1.9 kg/100 m

## Element 1

Element construction	4G0,5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 DIN EN 13602 Finely stranded DIN VDE 0295
Conductor marking	black with white number print green/yellow
Conductor insulation	Special TPE
Conductor insulation standard	in Anlehnung an VDE 0207

## overall construction

Overall stranding	stranded layers
Jacket characteristics	Halogen free hydrolysis-resistant microbe resistant rot-resistant Weather resistant UV resistant (normal lighting conditions) ozone-resistant service water-resistant salt water-resistant coolant-resistant lubricant-resistant Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

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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

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Minimum bending radius moving	10×D
Minimum bending radius fixed	4×D

## Element 1

Element construction	4G0,5
Insulation resistance at 20°C	100.0 MΩ×km
Operating capacitance Ader-Ader	74 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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