

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

PUR control cables · shielded



Identification	Type	SI N(C)PUR(5G0,5)
	Part-No.	111654

Use/Application/Characteristics

Application	<ul style="list-style-type: none">• Machine and device construction, transport and conveyor technology, HVAC 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 rough environments• For flexible applications without continuous flexing• Anywhere where electrical interference fields can influence the signal transmission
Characteristics	<ul style="list-style-type: none">• The overall shield of braided copper wires prevents both the interference of signals and measured values as well as the radiation of interfering signals• High active and passive interference resistance (EMC)• Low capacitance, very good electrical properties• Flexible in cold environments• Halogen-free, no corrosive gases• Low adhesion, abrasion-resistant, nick-resistant, tear resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weatherproof, ozone and UV resistant (normal lighting conditions)• Good ruggedness and salt water resistance• Excellent coolant and lubricant resistance• Resistant to most oils, greases, alcohol-free benzines and kerosene• Silicone free• RoHS-compliant

27.01.2017 – Subject to technical modification

Part-No. 111654

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SYSTEMATIC TECHNOLOGY

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Construction

Description	Silfex N (C) PUR
Number of conductors/cross-section	(5G0.5)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	6.5 mm
Surface	adhesion-free matt
Weight	7 kg/100 m
Cu-Index	4.8 kg/100 m

Element 1

Element construction	(5G0,5)
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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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	(5G0,5)
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



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