

Technical data sheet

PUR control cables · shielded

LÜTZE SILFLEX® N (C) PUR



Identification

Type SI N(C)PUR(5G0,5)
Part No. [111654](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Machine and device construction, transport and conveyor technology, heating and climate 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 harsh environments• For flexible applications without compulsory guide• Anywhere where electrical interference fields can influence the signal transmission |
| Properties | <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 protection against electromagnetic interferences (EMI)• Low capacitance, very good electrical properties• Very good cold flexibility• Halogen free, no corrosive gases• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description SILFLEX® (C) N PUR

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Number of conductors/cross-section	(5G0.5)
Number of conductors	5
Cross-section, metric	0.5 mm ²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	6.5 mm
Surface	adhesion-free
Weight	7 kg/100 m
Cu-Index	4.8 kg/100 m

Construction Element 1

Element construction	(5G0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking standard	DIN VDE 0293
Conductor insulation	Special TPE
Conductor insulation standard	Based on VDE 0207
Wrapping	Non-woven material

Overall construction

Overall stranding	Layered construction
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

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	15×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	(5G0.5)
Insulation resistance at 20 °C	≥100 MΩ×km
Operating capacitance wire-wire	approx.74 pF/m
Operating capacitance wire-shield	approx.120 pF/m

Certifications/Standards

Conformity	CE RoHS REACH
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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