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

PUR control cables · shielded

Identification	Type	SI N(C)PUR(12G1,0)
	Part-No.	111673

Use/Application/Characteristics	
Application	• 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	• 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

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SYSTEMATIC TECHNOLOGY

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Construction	
Description	Silfex N (C) PUR
Number of conductors/cross-section	(12G1.0)
Jacket material	PUR
Jacket color	grey RAL 7001
Outer ∅	10.9 mm
Surface	adhesion-free matt
Weight	22 kg/100 m
Cu-Index	15.3 kg/100 m

Element 1

Element construction	(12G1,0)
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	(12G1,0)
Insulation resistance at 20°C	100.0 MΩ×km

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

Symbols

27.01.2017 – Subject to technical modification

Part-No. 111673

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