

Technical data sheet · LUTZE-SILFLEX® N PUR

PUR control cables · unshielded



Identification	Type	SI N PUR 18G1,0
	Part-No.	110189

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
Characteristics	<ul style="list-style-type: none">• Low capacitance, very good electrical properties• Flexible in cold environments• Halogen-free, no corrosive gases• Low adhesion, Abrasion-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

Construction

Description	Silflex N PUR
Number of conductors/cross-section	18G1.0

27.01.2017 – Subject to technical modification

Part-No. 110189

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Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	12.3 mm
Surface	adhesion-free matt
Weight	27.9 kg/100 m
Cu-Index	17.3 kg/100 m

Element 1

Element construction	18G1,0
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

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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SYSTEMATIC TECHNOLOGY

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

Element 1

Element construction 18G1,0
Insulation resistance at 20°C 100.0 MΩ×km
Operating capacitance Ader-Ader 65 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

Symbols



CE



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