Technical data sheet

PUR control cables · unshielded

LÜTZE SILFLEX® N PUR

Identification

Type	SI N PUR 3G1,0
Part No.	110182

Product version

Datasheet version	00

Use/Application/Properties

Application	• 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
Properties	• 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® N PUR
Number of conductors/cross-section	3G1.0
Number of conductors	3
Cross-section, metric	1 mm²
Jacket material	PUR

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Jacket color	grey similar to RAL 7001
Outer Ø	5.8 mm
Surface	adhesion-free
Weight	5.3 kg/100 m
Cu-Index	2.9 kg/100 m

Construction Element 1

Element construction	3G1.0
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
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
Minimum bending radius moving	10×D
Minimum bending radius fixed	4×D

Technical Data Element 1

Element construction	3G1.0
Insulation resistance at 20 °C	≥100 MΩ×km

Operating capacitance wire-wire	approx.65 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