Technical data sheet

PUR control cables · shielded

LÜTZE SILFLEX® N (C) PUR

Identification

Type	SI N(C)PUR(3G0,5)
Part No.	111652

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 • Anywhere where electrical interference fields can influence the signal transmission
Properties	• 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

United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH
Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0
www.luetze.de • info@luetze.de

Number of conductors/cross-section	(3G0.5)
Number of conductors	3
Cross-section, metric	0.5 mm²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	5.5 mm
Surface	adhesion-free
Weight	4.5 kg/100 m
Cu-Index	2.8 kg/100 m

Construction Element 1

Element construction	(3G0.5)
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

Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	(3G0.5)
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