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


**PUR control cables · shielded**

| | | |
|---|---|---|
| **Identification** | Type | SI N(C)PUR(2×1,0) |
| | Part-No. | 111668 |

| **Use/Application/Characteristics** | |
|---|---|
| Application | • Machine and device construction, transport and conveyor technology, HVAC technology<br>• In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire<br>• As a monitoring, measurement and control cable for industrial applications<br>• Especially for rough environments<br>• For flexible applications without continuous flexing<br>• 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<br>• High active and passive interference resistance (EMC)<br>• Low capacitance, very good electrical properties<br>• Flexible in cold environments<br>• Halogen-free, no corrosive gases<br>• Low adhesion, abrasion-resistant, nick-resistant, tear resistant<br>• Hydrolysis-resistant, microbe-resistant, and rot-resistant<br>• Weatherproof, ozone and UV resistant (normal lighting conditions)<br>• Good ruggedness and salt water resistance<br>• Excellent coolant and lubricant resistance<br>• Resistant to most oils, greases, alcohol-free benzines and kerosene<br>• Silicone free<br>• RoHS-compliant |



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SYSTEMATIC TECHNOLOGY

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| Construction | |
|---|---|
| Description | Silfex N (C) PUR |
| Number of conductors/cross-section | (2×1.0) |
| Jacket material | PUR |
| Jacket color | grey RAL 7001 |
| Outer ∅ | 6 mm |
| Surface | adhesion-free<br>matt |
| Weight | 5.7 kg/100 m |
| Cu-Index | 3.7 kg/100 m |

| Element 1 | |
|---|---|
| Element construction | (2×1,0) |
| Conductor | CU-wire bare |
| Conductor category | IEC 60228, Class 5<br>DIN EN 13602<br>Finely stranded DIN VDE 0295 |
| Conductor marking | black<br>with white print |
| Conductor insulation | Special TPE |
| Conductor insulation standard | in Anlehnung an<br>VDE 0207 |

| overall construction | |
|---|---|
| Overall stranding | stranded layers |
| Overall shield | Braid shield<br>Tinned copper wires<br>optical cover approx. 85% |
| Jacket characteristics | Halogen free<br>hydrolysis-resistant<br>microbe resistant<br>rot-resistant<br>Weather resistant<br>ozone-resistant<br>UV resistant (normal lighting conditions)<br>service water-resistant<br>salt water-resistant<br>coolant-resistant<br>lubricant-resistant<br>Oil resistant<br>grease-resistant<br>petrol-resistant (alcohol-free)<br>kerosene-resistant<br>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 | (2×1,0) |
| Insulation resistance at 20°C | 100.0 MΩ×km |

| Approvals/Standards | |
|---|---|
| Conformity | CE<br>RoHS |
| Halogen free according to | IEC 60754-1<br>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

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