

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

PUR control cables · shielded



| | | |
|-----------------------|----------|--------------------|
| Identification | Type | SI N(C)PUR(12G0,5) |
| | Part-No. | 111657 |

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• Anywhere where electrical interference fields can influence the signal transmission |
| Characteristics | <ul style="list-style-type: none">• 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 |

27.01.2017 – Subject to technical modification

Part-No. 111657

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SYSTEMATIC TECHNOLOGY

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Construction

| | |
|------------------------------------|-----------------------|
| Description | Silfex N (C) PUR |
| Number of conductors/cross-section | (12G0.5) |
| Jacket material | PUR |
| Jacket color | grey RAL 7001 |
| Outer Ø | 9.3 mm |
| Surface | adhesion-free matt |
| Weight | 14.6 kg/100 m |
| Cu-Index | 9 kg/100 m |

Element 1

| | |
|-------------------------------|--|
| Element construction | (12G0,5) |
| 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 | (12G0,5) |
| Insulation resistance at 20°C | 100.0 MΩ×km |
| Operating capacitance Ader-Ader | 74 pF/m |
| Operating capacitance wire-shield | 120 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



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