

**Technical data sheet · LÜTZE SUPERFLEX® PLUS M PUR 0.6/1 kV**  
**Motor/energy supply cable**  
**For highest requirements**



**PUR motor cables · C-track compatible · unshielded**

|                       |          |                        |
|-----------------------|----------|------------------------|
| <b>Identification</b> | Type     | SU+M PUR 4G4 UL 1KV SW |
|                       | Part-No. | 111372                 |

**Use/Application/Characteristics**

|                 |  |
|-----------------|--|
| Application     | <ul style="list-style-type: none"> <li>• Motor connection cable, specifically for machine and device construction, transport and conveyor technology</li> <li>• Due to full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants</li> <li>• Especially for industrial environments, machines and plants</li> </ul>   |
| Characteristics | <ul style="list-style-type: none"> <li>• Very good alternating bending strength</li> <li>• Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weatherproof, ozone and UV resistant (normal lighting conditions)</li> <li>• Good ruggedness and salt water resistance</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Resistant to most oils, greases, alcohol-free benzines and kerosene</li> <li>• Silicone free</li> <li>• RoHS compliant</li> </ul> |

**Construction**

|                                    |                          |
|------------------------------------|--------------------------|
| Description                        | SUPERFLEX+ M PUR 0.6/1kV |
| Number of conductors/cross-section | 4G4                      |
| Jacket material                    | PUR                      |

28.04.2017 – Subject to technical modification

Part-No. 111372

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SYSTEMATIC TECHNOLOGY

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## Motor/energy supply cable

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|              |                       |
|--------------|-----------------------|
| Jacket color | black RAL 9005        |
| Outer Ø      | 11.6 mm               |
| Outer Ø      | 0.457 inches          |
| Surface      | adhesion-free<br>matt |
| Weight       | 22.2 kg/100 m         |
| Weight       | 156 Lbs/Mft           |
| Cu-Index     | 15.5 kg/100 m         |
| Cu-Index     | 103 Lbs/Mft           |

#### Element 1

|                            |  |
|----------------------------|--|
| Element construction       | 4G4  |
| Conductor                  | CU-wire bare   |
| Conductor category         | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>class 6         |
| Conductor marking          | black<br>with white number print<br>green/yellow                           |
| Conductor marking standard | DIN EN 50334   |
| Conductor insulation       | Special TPE  |
| Stranding                  | Conductors stranded layers<br>Conductors twisted without mechanical stress |

#### overall construction

|                        |  |
|------------------------|--|
| Overall stranding      | stranded layers<br>layer pitch optimised<br>Conductors twisted without mechanical stress   |
| Overall wrapping       | Non-woven material   |
| Jacket characteristics | Flame-retardant<br>Oil resistant<br>grease-resistant<br>petrol-resistant (alcohol-free)<br>kerosene-resistant<br>Silicone-free<br>Halogen free |

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#### Technical data

|                                 |            |
|---------------------------------|------------|
| Rated voltage U <sub>0</sub> /U | 600/1000 V |
| Rated voltage UL                | 1000 V     |
| Test voltage type               | AC 4000 V  |

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|                               |                    |
|-------------------------------|--------------------|
| Temperature range moving      | -25 °C ... +80 °C  |
| Temperature range fixed       | -40 °C ... +80 °C  |
| Minimum bending radius moving | 7.5×D              |
| Minimum bending radius fixed  | 4×D                |
| Bending cycles                | = 5 Mio            |
| Travel distance               | ≤40 m              |
| Speed                         | 3.5 m/s            |
| Acceleration                  | 5 m/s <sup>2</sup> |

#### Element 1

|                               |           |
|-------------------------------|-----------|
| Element construction          | 4G4       |
| Insulation resistance at 20°C | 500 MΩ×km |

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#### Approvals/Standards

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|                               |   |
|-------------------------------|---|
| Approvals                     | cURus   |
| UL style                      | AWM 21223   |
| Conformity                    | CE<br>RoHS<br>REACH   |
| Burning behavior according to | IEC 60332-1<br>DIN EN 60332-1-2<br>VDE 0482 322-1-2<br>UL 1581 Part 1080 VW-1<br>UL FT1 |
| Oil resistant according to    | UL 4d100C<br>VDE 0282 T 10<br>DIN EN 60811-2-1  |
| Halogen free according to     | DIN EN 60754-1<br>IEC 60754-1   |

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#### General

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|      |  |
|------|--|
| Note | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |
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#### Symbols

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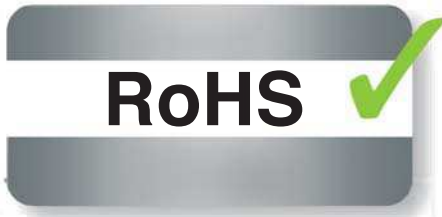
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