

## Technical data sheet

PVC control cables · unshielded

### LÜTZE SILFLEX® N PVC MULTINORM

With approvals for Europe and North America



#### Identification

Type SI N PVC 4G2,5 MN  
Part No. [109741](#)

#### Product version

Datasheet version 01

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Machine and device construction, transport and conveyor technology, heating and climate technology</li><li>• In dry, damp and wet rooms</li><li>• As a monitoring, measurement and control cable for industrial applications</li><li>• For flexible applications without compulsory guide</li></ul>                                                                                                                    |
| Properties  | <ul style="list-style-type: none"><li>• UL recognized for use in North America</li><li>• Easy stripping and fast installation</li><li>• High flexibility for complex installation distances and small bending radii</li><li>• Improved oil resistance due to specifically developed PVC jacket</li><li>• Resistance to many oils, coolants and solvents</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Silicone free</li></ul> |

#### Construction

|                                    |                          |
|------------------------------------|--------------------------|
| Description                        | SILFLEX® N PVC MULTINORM |
| Number of conductors/cross-section | 4G2.5                    |
| Number of conductors               | 4                        |
| Cross-section, metric              | 2.5 mm <sup>2</sup>      |
| Jacket material                    | Special PVC              |
| Jacket color                       | grey similar to RAL 7001 |
| Outer Ø                            | 8.7 mm                   |
| Weight                             | 16 kg/100 m              |
| Cu-Index                           | 9.6 kg/100 m             |

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03.03.2025 • Subject to technical modification

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#### Construction Element 1

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|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Element construction       | 4G2.5                                                         |
| Conductor                  | CU-wire bare                                                  |
| Conductor category         | IEC 60228, Class 5<br>Finely stranded DIN VDE 0295<br>Class 5 |
| Conductor marking standard | DIN VDE 0293                                                  |
| Conductor insulation       | Special PVC                                                   |

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#### Overall construction

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|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Overall stranding      | Layered construction                                                                                                                     |
| Jacket characteristics | Flame-retardant<br>Oil resistant<br>Coolant-resistant<br>Solvent-resistant<br>Hydrolysis-resistant<br>Microbe resistant<br>Silicone free |

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#### Technical data

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|                               |                   |
|-------------------------------|-------------------|
| Rated voltage $U_0/U$         | 300/500 V         |
| Rated voltage UL              | 600 V             |
| Test voltage type             | AC 6000 V         |
| Temperature according to UL   | 90 °C             |
| Temperature range UL moving   | -5 °C ... +90 °C  |
| Temperature range UL fixed    | -40 °C ... +90 °C |
| Temperature range VDE moving  | -5 °C ... +70 °C  |
| Temperature range VDE fixed   | -25 °C ... +70 °C |
| Minimum bending radius moving | 10×D              |
| Minimum bending radius fixed  | 4×D               |

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#### Technical Data Element 1

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|                                 |                 |
|---------------------------------|-----------------|
| Element construction            | 4G2.5           |
| Insulation resistance at 20 °C  | ≥20 MΩ×km       |
| Operating capacitance wire-wire | approx.190 pF/m |

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#### Certifications/Standards

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|                |                                  |
|----------------|----------------------------------|
| Certifications | cURus<br>AWM I/II A/B FT1<br>VDE |
| UL style       | AWM 2587                         |
| Conformity     | CE<br>RoHS<br>REACH              |

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|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Burning behavior according to | IEC 60332-1<br>IEC 60332-3-24<br>UL FT1<br>UL VW-1 |
|-------------------------------|----------------------------------------------------|

|                            |            |
|----------------------------|------------|
| Oil resistant according to | Oil Res II |
|----------------------------|------------|

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#### General

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|      |                                                                    |
|------|--------------------------------------------------------------------|
| Note | Also available without UL certification. Delivery time on request. |
|------|--------------------------------------------------------------------|

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