

## Technical data sheet

PVC control cables · shielded

### LÜTZE SILFLEX® N (C) PVC MULTINORM With approvals for Europe and North America



#### Identification

Type SI N(C)PVC(7G0,5)MN  
Part No. [109804](#)

#### Product version

Datasheet version 00

#### 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><li>• Anywhere where electrical interference fields can influence the signal transmission</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 (C) PVC MULTINORM |
| Number of conductors/cross-section | (7G0.5)                      |
| Number of conductors               | 7                            |
| Cross-section, metric              | 0.5 mm <sup>2</sup>          |
| Jacket material                    | Special PVC                  |
| Jacket color                       | grey similar to RAL 7001     |
| Outer Ø                            | 7.4 mm                       |

#### 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](http://www.lutze.com) • [sales.gb@lutze.co.uk](mailto: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](http://www.luetze.de) • [info@luetze.de](mailto:info@luetze.de)

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|          |               |
|----------|---------------|
| Weight   | 9.8 kg/100 m  |
| Cu-Index | 5.82 kg/100 m |

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#### Construction Element 1

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|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Element construction       | (7G0.5)                                                       |
| 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                                                                                                                     |
| Overall wrapping       | Non-woven material                                                                                                                       |
| Overall shield         | Braid shield<br>Tinned copper wires<br>Optical cover approx. 85 %                                                                        |
| 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 | 15×D              |
| Minimum bending radius fixed  | 6×D               |

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#### Technical Data Element 1

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|                                   |                  |
|-----------------------------------|------------------|
| Element construction              | (7G0.5)          |
| Insulation resistance at 20 °C    | ≥20 MΩ×km        |
| Operating capacitance wire-wire   | approx. 134 pF/m |
| Operating capacitance wire-shield | approx. 142 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                                |
| 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 | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |
|------|----------------------------------------------------------------------------------|