

## Technical data sheet

PUR Bus cables · Profibus · C-track compatible

### LÜTZE SUPERFLEX® Profibus (C) PUR

For highest requirements



#### Identification

Type SU PROFIBUS (C) PUR FC (1×2×AWG24/19)  
Part No. [104287](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• For wiring of industrial field bus systems like PROFIBUS DP, SINEC L2, F.I.P</li><li>• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture</li><li>• Compatible with all major drag chain brands</li><li>• Compliant with NFPA 79 requirements</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Silicone free</li><li>• Flame retardant</li><li>• Abrasion-resistant, nick-resistant, tear-propagation-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Coolant and lubricant resistant</li></ul>                                             |

#### Construction

|                                    |                             |
|------------------------------------|-----------------------------|
| Description                        | SUPERFLEX® PROFIBUS (C) PUR |
| Number of conductors/cross-section | (1×2×AWG24/19)              |
| Number of conductors               | 2                           |
| Cross-section, metric              | 0.25 mm²                    |
| Cross-section AWG                  | AWG 24                      |
| Jacket material                    | PUR                         |
| Jacket color                       | violet similar to RAL 4001  |
| Outer Ø                            | 8 mm                        |
| Outer Ø                            | 0.315 inch                  |

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|          |               |
|----------|---------------|
| Surface  | adhesion-free |
| Weight   | 8 kg/100 m    |
| Weight   | 54 Lbs/Mft    |
| Cu-Index | 3 kg/100 m    |
| Cu-Index | 20 Lbs/Mft    |
| Mounting | Fast Connect  |

#### Construction Element 1

|                            |                               |
|----------------------------|-------------------------------|
| Element construction       | (1×2×AWG24/19)                |
| Conductor                  | AWG conductor<br>CU-wire bare |
| Conductor marking standard | EN 61158, EN 61784            |
| Conductor insulation       | TPE                           |
| Stranding                  | Conductors stranded in pairs  |

#### Overall construction

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Overall stranding      | Stranded pairs                                                            |
| Inner jacket           | TPE                                                                       |
| Overall shield         | Foil shield<br>Braid<br>Tinned copper wires<br>Optical cover approx. 70 % |
| Jacket characteristics | Silicone free<br>Halogen free<br>Flame-retardant                          |

#### Technical data

|                               |                     |
|-------------------------------|---------------------|
| Rated voltage                 | 300 V               |
| Test voltage type             | AC 1500 V           |
| Temperature according to UL   | 75 °C               |
| Temperature range moving      | -30 °C ... +70 °C   |
| Temperature range fixed       | -40 °C ... +80 °C   |
| Minimum bending radius moving | 15×D                |
| Minimum bending radius fixed  | 7.5×D               |
| Bending cycles                | ≥3 Mio              |
| Travel distance               | ≤3.5 m              |
| Speed                         | 5 m/s               |
| Acceleration                  | 10 m/s <sup>2</sup> |

#### Technical Data Element 1

|                                 |                |
|---------------------------------|----------------|
| Element construction            | (1×2×AWG24/19) |
| Operating capacitance wire-wire | approx.30 pF/m |
| Loop resistance                 | ≤165 mΩ/m      |
| Impedance                       | nom.150 Ω      |

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### Certifications/Standards

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|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Certifications                | CMX<br>cULus<br>cURus                                |
| UL style                      | AWM 21198                                            |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                          |
| Burning behavior according to | IEC 60332-1<br>DIN EN 60332-1-2<br>UL 1581<br>UL FT1 |
| Halogen free according to     | DIN EN 60754-1<br>IEC 60754-1                        |

### General

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