

# Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

## Feedback cables for Allen-Bradley and other systems

### For highest requirements in drive technology



PUR feedback cables · C-track compatible

|                       |          |   |
|-----------------------|----------|---|
| <b>Identification</b> | Type     | SU+M(C)P<br>SE(2×AWG16+2×AWG22+6×2×AWG26)<br>UL 1KV |
|                       | Part-No. | 111489  |

#### Use/Application/Characteristics

|                 |   |
|-----------------|---|
| Application     | <ul style="list-style-type: none"> <li>• Incremental encoder cable, connection cable for tachometer sensor, brake sensor, speed sensor</li> <li>• Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks</li> <li>• Very good resistance against aggressive coolants and lubricants</li> <li>• Especially for industrial environments in mechanical and system engineering</li> </ul>   |
| Characteristics | <ul style="list-style-type: none"> <li>• High active and passive interference resistance (EMC)</li> <li>• Braided shield optimised for continuous flexible use</li> <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> |

17.02.2017 – Subject to technical modification

Part-No. 111489

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#### Construction

|                                    |   |
|------------------------------------|---|
| Description                        | SUPERFLEX+ (C) PUR FEEDBACK ALLEN BRAD. |
| Number of conductors/cross-section | (2×AWG16+2×AWG22+6×2×AWG26)             |
| Jacket material                    | PUR                                     |
| Jacket color                       | green RAL 6018                          |
| Outer Ø                            | 10.8 mm                                 |
| Outer Ø                            | 0.425 inches                            |
| Surface                            | adhesion-free<br>matt                   |
| Weight                             | 18 kg/100 m                             |
| Weight                             | 72 Lbs/Mft                              |
| Cu-Index                           | 12 kg/100 m                             |
| Cu-Index                           | 36 Lbs/Mft                              |

#### Element 1

|                      |   |
|----------------------|---|
| Element construction | 2×AWG16   |
| Conductor            | CU-wire bare  |
| Conductor category   | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>Klasse 6   |
| Conductor marking    | grey<br>white/grey  |
| Conductor insulation | Special TPE   |
| Stranding            | layer pitch optimised<br>Conductors twisted without mechanical stress |

#### Element 2

|                      |   |
|----------------------|---|
| Element construction | 2×AWG22   |
| Conductor            | CU-wire bare  |
| Conductor category   | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295               |
| Conductor marking    | orange<br>white/orange  |
| Conductor insulation | Special TPE   |
| Stranding            | layer pitch optimised<br>Conductors twisted without mechanical stress |

#### Element 3

|                      |           |
|----------------------|-----------|
| Element construction | 6×2×AWG26 |
|----------------------|-----------|

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SYSTEMATIC TECHNOLOGY

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|                      |  |
|----------------------|--|
| Conductor            | CU-wire bare   |
| Conductor category   | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295  |
| Conductor marking    | black/white<br>black<br>red/white<br>red<br>green/white<br>green<br>blue/white<br>blue<br>brown/white<br>brown<br>yellow/white<br>yellow |
| Conductor insulation | Special TPE  |
| Stranding            | Conductors stranded in pairs<br>layer pitch optimised<br>Conductors twisted without mechanical stress                                    |

#### overall construction

|                        |  |
|------------------------|--|
| Overall stranding      | Elements stranded together   |
| 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>grease-resistant<br>petrol-resistant (alcohol-free)<br>kerosene-resistant<br>Silicone-free<br>Halogen free |

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#### Technical data

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|                               |                   |
|-------------------------------|-------------------|
| Rated voltage                 | 1000 V            |
| Test voltage type             | AC 2000 V         |
| Temperature range moving      | -25 °C ... +80 °C |
| Temperature range fixed       | -40 °C ... +80 °C |
| Minimum bending radius moving | 10×D              |
| Minimum bending radius fixed  | 6×D               |

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#### Element 1

|                               |             |
|-------------------------------|-------------|
| Element construction          | 2×AWG16     |
| Insulation resistance at 20°C | 200.0 MΩ×km |

#### Element 2

|                                |             |
|--------------------------------|-------------|
| Element construction           | 2×AWG22     |
| Insulation resistance at 20 °C | 200.0 MΩ×km |

#### Element 3

|                             |             |
|-----------------------------|-------------|
| Element construction        | 6×2×AWG26   |
| Insulation resistance 20 °C | 200.0 MΩ×km |

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#### Approvals/Standards

|                           |   |
|---------------------------|---|
| Approvals                 | cURus   |
| UL style                  | AWM 21223   |
| Conformity                | CE<br>RoHS<br>REACH   |
| Burning behavior          | 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 |
| Halogen free according to | DIN EN 60754-1<br>IEC 60754-1   |

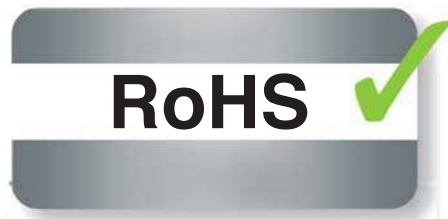
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#### General

|      |  |
|------|--|
| 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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