

## Technical data sheet

PUR feedback cables · C-track compatible · shielded

### LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



#### Identification

|                  |                             |
|------------------|-----------------------------|
| Type             | SU+ (C) PUR FB (9×0,5) 300V |
| Part No.         | <a href="#">110940</a>      |
| INK Description* | INK-0208*                   |

#### Product version

|                   |    |
|-------------------|----|
| Datasheet version | 00 |
|-------------------|----|

#### Use/Application/Properties

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor</li><li>• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants</li><li>• Especially for industrial environments in mechanical and system engineering</li></ul>                                                                                                                                                                                                                                                        |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Braided shield optimised for continuous flexing use</li><li>• Very good alternating bending strength</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Weathering, ozone and UV resistant (normal lighting conditions)</li><li>• Industrial and salt water resistant</li><li>• Excellent coolant and lubricant resistance</li><li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li><li>• Silicone free</li></ul> |

#### Construction

|                                    |                                  |
|------------------------------------|----------------------------------|
| Description                        | SUPERFLEX® PLUS (C) PUR FEEDBACK |
| Number of conductors/cross-section | (9×0.5)                          |
| Number of conductors               | 9                                |
| Cross-section, metric              | 0.5 mm <sup>2</sup>              |

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|                 |                            |
|-----------------|----------------------------|
| Jacket material | PUR                        |
| Jacket color    | orange similar to RAL 2003 |
| Outer Ø         | 8.8 mm                     |
| Outer Ø         | 0.347 inch                 |
| Surface         | adhesion-free              |
| Weight          | 12.5 kg/100 m              |
| Weight          | 84 Lbs/Mft                 |
| Cu-Index        | 7.5 kg/100 m               |
| Cu-Index        | 50 Lbs/Mft                 |

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### Construction Element 1

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|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Element construction       | (9×0.5)                                                               |
| Conductor                  | CU-wire bare                                                          |
| Conductor category         | IEC 60228, Class 6<br>Superfinely stranded DIN VDE 0295<br>Class 6    |
| Conductor marking standard | DIN 47100                                                             |
| Conductor insulation       | Special TPE                                                           |
| Stranding                  | Conductors twisted without mechanical stress<br>Layer pitch optimised |

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### Overall construction

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|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Overall stranding      | Layered construction<br>Layer pitch optimised<br>Conductors twisted without mechanical stress                                                  |
| 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                 | 300 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 | 7.5×D                |
| Minimum bending radius fixed  | 5×D                  |
| Bending cycles                | ≥10 Mio              |
| Speed                         | ≤5 m/s               |
| Acceleration                  | ≤50 m/s <sup>2</sup> |

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Torsion  $\pm 30^\circ/\text{m}$

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### Technical Data Element 1

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|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Element construction              | (9×0.5)                                     |
| Insulation resistance at 20 °C    | $\geq 200 \text{ M}\Omega \times \text{km}$ |
| Operating capacitance wire-wire   | approx. 53 pF/m                             |
| Operating capacitance wire-shield | approx. 95 pF/m                             |

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### Certifications/Standards

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|                               |                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------|
| Certifications                | cURus                                                                                   |
| UL style                      | AWM 20233                                                                               |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                                                             |
| 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 |
| 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 |
|------|----------------------------------------------------------------------------------|