

# Technical data sheet · LÜTZE SILFLEX® N (C) PVC CONTROL TRAY CABLE

## With approvals for North America according to NEC, NFPA 79 and UL 508A



PVC control cables · shielded

|                       |          |                                 |
|-----------------------|----------|---------------------------------|
| <b>Identification</b> | Type     | SI N (C)PVC TRAY-ER (5×AWG16)GR |
|                       | Part-No. | A3091605                        |

### Use/Application/Characteristics

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application     | <ul style="list-style-type: none"> <li>• Multi-conductor control cables with TC-ER „Exposed Run“ approval</li> <li>• Machine and device construction, HVAC technology, heating and climate technology</li> <li>• Compliant with NFPA 79 standards</li> <li>• „TC-ER“ for use on machines and in open cable ducts</li> <li>• „WTTC“ Wind Turbine Tray Cable for use in wind turbines</li> <li>• „MTW“ Machine Tool Wire</li> <li>• „PLTC-ER“ Power Limited Tray Cable – Exposed Run</li> <li>• „ITC-ER“ Instrumentation Tray Cable</li> <li>• In dry, moist and wet rooms</li> </ul> |
| Characteristics | <ul style="list-style-type: none"> <li>• Flexible wires with nylon for better resistance to pressure and impacts as per UL 1277</li> <li>• Easy stripping and fast installation</li> <li>• Very flexible flexibility for complex installation distances and small bending radii</li> <li>• Improved oil resistance due to specifically developed PVC jacket</li> <li>• Sunlight-resistant</li> <li>• „Direct burial“ for installation in the ground</li> <li>• Silicone free</li> <li>• RoHS compliant</li> </ul>                                                                   |

### Construction

29.01.2017 – Subject to technical modification

Part-No. A3091605

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SYSTEMATIC TECHNOLOGY

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|                                    |                               |
|------------------------------------|-------------------------------|
| Description                        | SILFLEX CONTROL CABLE (C) PVC |
| Number of conductors/cross-section | (5×AWG16)                     |
| Jacket material                    | PVC                           |
| Jacket color                       | grey RAL 7001                 |
| Outer Ø                            | 10.1 mm                       |
| Outer Ø                            | 0.398 inches                  |
| Weight                             | 17.7 kg/100 m                 |
| Weight                             | 119 Lbs/Mft                   |
| Cu-Index                           | 8.6 kg/100 m                  |
| Cu-Index                           | 58 Lbs/Mft                    |

### Element 1

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Element construction   | AWG16/5C                                         |
| Conductor construction | AWG 16 (26/30)                                   |
| Conductor              | AWG conductor<br>CU-wire bare                    |
| Conductor category     | feindrähtig                                      |
| Conductor marking      | black<br>with white number print<br>green/yellow |
| Conductor insulation   | PVC/Nylon<br>THHN – THWN                         |

### overall construction

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Drain wire             | CU-wire tin-plated                                                       |
| Overall shield         | Aluminium laminate<br>Foil shield<br>Braid shield<br>Tinned copper wires |
| Jacket characteristics | Oil resistant<br>Silicone-free                                           |

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### Technical data

|                              |                                |
|------------------------------|--------------------------------|
| Rated voltage                | 600 V TC-ER/MTW<br>1000 V WTTC |
| Temperature range fixed      | -40 °C ... +90 °C              |
| Minimum bending radius fixed | 6×D                            |

### Element 1

|                      |          |
|----------------------|----------|
| Element construction | AWG16/5C |
|----------------------|----------|

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### Approvals/Standards

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|                            |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals                  | TC-ER<br>WTTTC<br>UL Type MTW or DP-1<br>Class 1 Div. 2 per NEC<br>Art. 336, 392, 501<br>cUL TC<br>CIC FT4<br>UL 1277<br>PLTC-ER<br>ITC-ER |
| UL style                   | AWM 20886                                                                                                                                  |
| Conformity                 | CE<br>REACH<br>RoHS                                                                                                                        |
| Oil resistant according to | Oil Res II                                                                                                                                 |

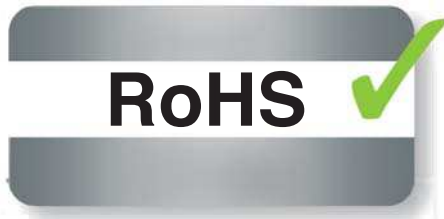
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### General

Note These products are in conformity with the EU Low Voltage Directive 2006/95/EC

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### Symbols



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