

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

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



PVC control cables · unshielded

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Identification                  | Type<br>Part-No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SI N TRAY-ER 4×AWG12 GR<br>A3081204 |
| 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, transport and conveyor technology, HVAC 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 – Exposed Run</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. A3081204

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|                                    |                           |
|------------------------------------|---------------------------|
| Description                        | SILFLEX CONTROL CABLE PVC |
| Number of conductors/cross-section | 4×AWG12                   |
| Jacket material                    | PVC                       |
| Jacket color                       | grey RAL 7001             |
| Outer Ø                            | 11.1 mm                   |
| Outer Ø                            | 0.437 inches              |
| Weight                             | 22.3 kg/100 m             |
| Weight                             | 150 Lbs/Mft               |
| Cu-Index                           | 12.5 kg/100 m             |
| Cu-Index                           | 84 Lbs/Mft                |

### Element 1

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Element construction   | AWG12/4C                                         |
| Conductor construction | AWG 12 (65/30)                                   |
| 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

|                        |                                |
|------------------------|--------------------------------|
| Jacket characteristics | Oil resistant<br>Silicone-free |
|------------------------|--------------------------------|

### Technical data

|                              |                                |
|------------------------------|--------------------------------|
| Rated voltage                | 600 V TC-ER/MTW<br>1000 V WTTC |
| Temperature range fixed      | -40 °C ... +90 °C              |
| Minimum bending radius fixed | 4×D                            |

### Element 1

|                      |          |
|----------------------|----------|
| Element construction | AWG12/4C |
|----------------------|----------|

### Approvals/Standards

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SYSTEMATIC TECHNOLOGY

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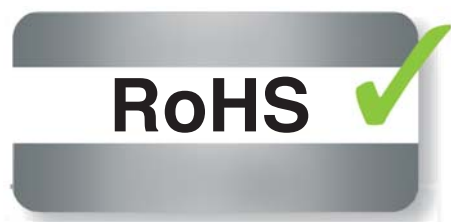
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|                            |                                                                                                                                                             |
|----------------------------|--------------------------------------------------------------------------------------------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

### General

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

### Symbols



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