

## Technical data sheet

### Flexible Control and Tray Cable TRAY-ER PVC · Unshielded

#### LUTZE SILFLEX® N Control Cable PVC For Stationary Applications



#### Identification

Type SI N TRAY-ER 4×AWG12 GR  
Part No. [A3081204](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Machine tools, machine and plant construction, VAC technology as well as other uses.</li><li>• Compliant with NFPA 79 requirements</li><li>• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments</li><li>• WTTC – wind turbine tray cable rating for use in wind power generation</li><li>• PLTC-ER Power Limited Tray Cable – Exposed Run</li><li>• ITC-ER Instrumentation Tray Cable – Exposed Run</li><li>• Dry, damp or wet locations</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• Crush impact resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Non-wicking fillers</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Sunlight resistant</li><li>• Flame retardant</li><li>• "direct burial" for installation in the ground</li><li>• Talc free and silicone free</li></ul>                                                                                                                     |

#### Construction

|                                    |                            |
|------------------------------------|----------------------------|
| Description                        | SILFLEX® CONTROL CABLE PVC |
| Number of conductors/cross-section | 4×AWG12                    |
| Number of conductors               | 4                          |
| Cross-section, metric              | 4 mm <sup>2</sup>          |
| Cross-section AWG                  | AWG 12                     |

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|                 |                          |
|-----------------|--------------------------|
| Jacket material | PVC                      |
| Jacket color    | grey similar to RAL 7001 |
| Outer Ø         | 11.1 mm                  |
| Outer Ø         | 0.437 inch               |
| Weight          | 22.3 kg/100 m            |
| Weight          | 150 Lbs/Mft              |
| Cu-Index        | 12.48 kg/100 m           |
| Cu-Index        | 84 Lbs/Mft               |

#### Construction Element 1

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Element construction   | AWG12/04C                                                        |
| Conductor construction | AWG 12 (65/30)                                                   |
| Conductor              | AWG conductor<br>CU-wire bare                                    |
| Conductor category     | Fine wire<br>Class K                                             |
| Conductor marking      | black • with white number print • Ground conductor: green/yellow |
| Conductor insulation   | PVC/Nylon<br>THHN – THWN                                         |

#### Overall construction

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

#### Technical data

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Rated voltage $U_N$          | 600 V 90C UL TC-ER-JP<br>1000 V WTTC 90C<br>600 V UL MTW<br>1000 V 105C AWM |
| Temperature range fixed      | -40 °C ... +105 °C                                                          |
| Minimum bending radius fixed | 4×D                                                                         |

#### Technical Data Element 1

|                      |           |
|----------------------|-----------|
| Element construction | AWG12/04C |
|----------------------|-----------|

#### Certifications/Standards

|                |                                                                                                                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications | UL Type MTW or DP-1<br>Meets NEC 336, 392, 725, 727<br>Class I and II, Div. 2 and Class I<br>Zone 2 per NEC 501, 502, 505<br>C(UL) TC and CIC FT4<br>UL 1277<br>TC-ER-JP<br>WTTC<br>PLTC-ER<br>ITC-ER |
| UL style       | AWM 20886                                                                                                                                                                                             |

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|                            |                             |
|----------------------------|-----------------------------|
| Conformity                 | CE<br>RoHS<br>REACH<br>TSCA |
| Oil resistant according to | Oil Res II                  |

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