

## Technical data sheet

### Flexible Premium TPE Control and Tray Cable for Stationary Applications · Unshielded

#### LUTZE SILFLEX® TRAY-ER TPE



#### Identification

Type SI TRAY-ER TPE 12×AWG14  
Part No. [A3321412](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Multi-conductor power cable for tray and control applications, with exposed run (open wiring) approval</li><li>• Metal cutting equipment, machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications</li><li>• Compliant with NFPA 79 requirements</li><li>• TC-ER 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>• 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>• Cutting oil resistant - mineral and bio/vegetable based oil, specially tested with plant based cutting oil.</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>• Specially formulated TPE jacket for superior oil resistance</li><li>• Sunlight resistant</li><li>• Flame-retardant</li><li>• Talc free and silicone free</li></ul>                                                  |

#### Construction

|                                    |                      |
|------------------------------------|----------------------|
| Description                        | SILFLEX® TRAY-ER TPE |
| Number of conductors/cross-section | 12×AWG14             |
| Number of conductors               | 12                   |

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page 1 of 3

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|                       |                           |
|-----------------------|---------------------------|
| Cross-section, metric | 2.5 mm <sup>2</sup>       |
| Cross-section AWG     | AWG 14                    |
| Jacket material       | TPE                       |
| Jacket color          | black similar to RAL 9005 |
| Outer Ø               | 15.5 mm                   |
| Outer Ø               | 0.61 inch                 |
| Weight                | 287 Lbs/Mft               |
| Cu-Index              | 158 Lbs/Mft               |

#### Construction Element 1

|                        |                                                |
|------------------------|------------------------------------------------|
| Element construction   | AWG14/12C                                      |
| Conductor construction | AWG 14 (41/30)                                 |
| Conductor              | AWG conductor<br>CU-wire bare                  |
| Conductor category     | fine wire<br>Class K                           |
| Conductor marking      | black • with white number print • green/yellow |
| Conductor insulation   | PVC/Nylon                                      |

#### Overall construction

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Jacket characteristics | Oil resistant<br>mineral oil-resistant<br>bio-oil-resistant<br>UV resistant (normal lighting conditions)<br>Silicone-free |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|

#### Technical data

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

#### Technical Data Element 1

|                      |           |
|----------------------|-----------|
| Element construction | AWG14/12C |
|----------------------|-----------|

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#### Certifications/Standards

|                            |                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications             | TC-ER<br>cURus<br>cULus<br>UL Type MTW or DP-1<br>WTTTC<br>Meets NEC 336,392<br>Class 1 Div. 2 per NEC<br>Zone 2 per NEC 501, 502, 505<br>C(UL) TC and CIC FT4<br>UL 1277 |
| UL style                   | AWM 21270                                                                                                                                                                 |
| Conformity                 | CE<br>RoHS<br>REACH<br>TSCA                                                                                                                                               |
| Oil resistant according to | Oil Res I<br>Oil Res II                                                                                                                                                   |

#### General

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