

## Technical data sheet

### Flexible Control and Tray Cable with Blue Conductors for 24V Applications · Unshielded

#### LÜTZE SILFLEX® Tray-ER Blue PVC



#### Identification

Type SI N TRAY-ER Blue 12×AWG16 GR  
Part No. [A3251612](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Multi-wire control cables with TC-ER „Exposed Run“ approval</li><li>• Machine tools, machine and plant construction, VAC technology as well as other uses.</li><li>• Compliant with NFPA 79 requirements</li><li>• Blue conductors indicating 24 Volt circuits</li><li>• MTW Machine Tool Wire</li><li>• TC-ER for use with cable trays without conduit, which can reduce installation costs in industrial environments</li><li>• Dry, damp or wet conditions</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• Specially formulated gray PVC jacket for oil resistance</li><li>• Crush impact resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Non-wicking fillers</li><li>• Sunlight resistant</li><li>• Flame-retardant</li><li>• Direct burial</li><li>• Talc free and silicone free</li></ul>                                                                                                                                                                      |

#### Construction

|                                    |                           |
|------------------------------------|---------------------------|
| Description                        | SILFLEX® TRAY-ER BLUE PVC |
| Number of conductors/cross-section | 12×AWG16                  |
| Number of conductors               | 12                        |
| Cross-section, metric              | 1.5 mm <sup>2</sup>       |
| Cross-section AWG                  | AWG 16                    |
| Jacket material                    | PVC                       |

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|              |                          |
|--------------|--------------------------|
| Jacket color | grey similar to RAL 7001 |
| Outer Ø      | 14.1 mm                  |
| Outer Ø      | 0.557 inch               |
| Weight       | 194 Lbs/Mft              |
| Cu-Index     | 98 Lbs/Mft               |

#### Construction Element 1

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Element construction   | AWG16/12C                                                                            |
| Conductor construction | AWG 16 (26/30)                                                                       |
| Conductor              | AWG conductor<br>CU-wire bare                                                        |
| Conductor category     | fine wire<br>Class K                                                                 |
| Conductor marking      | blue · with white number print · green/yellow · with number print 2 · white/<br>blue |
| Conductor insulation   | PVC/Nylon<br>THHN – THWN                                                             |

#### Overall construction

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

#### Technical data

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

#### Technical Data Element 1

|                      |           |
|----------------------|-----------|
| Element construction | AWG16/12C |
|----------------------|-----------|

#### Certifications/Standards

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications             | TC-ER<br>UL Type MTW or DP-1<br>Meets NEC 336,392<br>Class I and II, Div. 2 and Class I<br>Zone 2 per NEC 501, 502, 505<br>cUL TC<br>CIC FT4<br>UL 1277 |
| Conformity                 | RoHS<br>REACH<br>TSCA                                                                                                                                   |
| Oil resistant according to | Oil Res I                                                                                                                                               |

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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