

## Technical data sheet

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

#### LUTZE SILFLEX® N Control Cable (C) PVC For Stationary Applications



#### Identification

Type SI N (C) PVC TRAY-ER (5×AWG18) GR  
Part No. [A3091805](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Dual-shielded multi-conductor cable for tray and control applications</li><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 (C) PVC |
| Number of conductors/cross-section | (5×AWG18)                      |
| Number of conductors               | 5                              |
| Cross-section, metric              | 1 mm <sup>2</sup>              |

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SYSTEMATIC TECHNOLOGY

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|                   |                          |
|-------------------|--------------------------|
| Cross-section AWG | AWG 18                   |
| Jacket material   | PVC                      |
| Jacket color      | grey similar to RAL 7001 |
| Outer Ø           | 9.3 mm                   |
| Outer Ø           | 0.368 inch               |
| Weight            | 14.9 kg/100 m            |
| Weight            | 100 Lbs/Mft              |
| Cu-Index          | 6.5 kg/100 m             |
| Cu-Index          | 44 Lbs/Mft               |

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#### Construction Element 1

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|                        |                                                |
|------------------------|------------------------------------------------|
| Element construction   | AWG18/5C                                       |
| Conductor construction | AWG 18 (19/30)                                 |
| 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<br>THHN – THWN                       |

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#### Overall construction

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|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| 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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|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| 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 | 6×D                                                                         |

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#### Technical Data Element 1

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|                      |          |
|----------------------|----------|
| Element construction | AWG18/5C |
|----------------------|----------|

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

**General**

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