

# 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 PVC TRAY-ER 5×AWG18 SW  
Part No. [A3221805](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

Application

- Machine tools, machine and plant construction, VAC technology as well as other uses.
- Compliant with NFPA 79 requirements
- TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments
- WTTC – wind turbine tray cable rating for use in wind power generation
- PLTC-ER Power Limited Tray Cable – Exposed Run
- ITC-ER Instrumentation Tray Cable – Exposed Run
- Dry, damp or wet locations

Properties

- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Sunlight resistant
- Flame retardant
- "direct burial" for installation in the ground
- Talc free and silicone free

#### Construction

|                                    |                            |
|------------------------------------|----------------------------|
| Description                        | SILFLEX® CONTROL CABLE PVC |
| Number of conductors/cross-section | 5×AWG18                    |
| Number of conductors               | 5                          |
| Cross-section, metric              | 1 mm <sup>2</sup>          |
| Cross-section AWG                  | AWG 18                     |

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|                 |                           |
|-----------------|---------------------------|
| Jacket material | PVC                       |
| Jacket color    | black similar to RAL 9005 |
| Outer Ø         | 8.8 mm                    |
| Outer Ø         | 0.346 inch                |
| Weight          | 11 kg/100 m               |
| Weight          | 82 Lbs/Mft                |
| Cu-Index        | 4.5 kg/100 m              |
| Cu-Index        | 30 Lbs/Mft                |

### Construction Element 1

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

### Overall construction

|                        |   |
|------------------------|---|
| Jacket characteristics | Oil resistant<br>UV resistant (normal lighting conditions)<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 | AWG18/5C |
|----------------------|----------|

### 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 |
|------|--|