

## 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 5×AWG18 GR  
Part No. [A3081805](#)

#### 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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SYSTEMATIC TECHNOLOGY

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Jacket material	PVC
Jacket color	grey similar to RAL 7001
Outer Ø	8.8 mm
Outer Ø	0.346 inch
Weight	12.2 kg/100 m
Weight	82 Lbs/Mft
Cu-Index	4.5 kg/100 m
Cu-Index	30 Lbs/Mft

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#### Construction Element 1

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Element construction	AWG18/05C
Conductor construction	AWG 18 (19/30)
Conductor	AWG conductor CU-wire bare
Conductor category	Fine wire Class K
Conductor marking	black • with white number print • Ground conductor: green/yellow
Conductor insulation	PVC/Nylon THHN – THWN

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#### Overall construction

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Jacket characteristics	Oil resistant Silicone free
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#### Technical data

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

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#### Technical Data Element 1

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Element construction	AWG18/05C
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#### Certifications/Standards

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

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Conformity	CE RoHS REACH 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
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