

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 50×AWG18 GR
Part No. [A3081850](#)

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 50×AWG18
Number of conductors 50
Cross-section, metric 1 mm²
Cross-section AWG AWG 18
Jacket material PVC
Jacket color grey similar to RAL 7001
Outer Ø 23.1 mm
Outer Ø 0.91 inch

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Weight	93.6 kg/100 m
Weight	630 Lbs/Mft
Cu Index	44.9 kg/100 m
Cu Index	302 Lbs/Mft

Construction Element 1

Element construction	AWG18/50C
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

Overall construction

Jacket characteristics	Oil resistant Silicone free
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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×cable OD

Technical Data Element 1

Element construction	AWG18/50C
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Approvals/Standards

Approvals	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
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

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General

Note

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