

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 12×AWG18 SW
Part No. [A3221812](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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	12×AWG18
Number of conductors	12
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18

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SYSTEMATIC TECHNOLOGY

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Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	12.1 mm
Outer Ø	0.477 inch
Weight	22.6 kg/100 m
Weight	157 Lbs/Mft
Cu-Index	10.7 kg/100 m
Cu-Index	72 Lbs/Mft

Construction Element 1

Element construction	AWG18/12C
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 • green/yellow
Conductor insulation	PVC/Nylon

Overall construction

Jacket characteristics	Oil resistant UV resistant (normal lighting conditions) Silicone free
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Technical data

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

Technical Data Element 1

Element construction	AWG18/12C
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Certifications/Standards

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

General

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