

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 (12×AWG14) GR
Part No. [A3091412](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Multi-wire control cables with TC-ER „Exposed Run“ approval
 - 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
 - In dry, damp and wet rooms
- 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 (AWG 18 and larger)
 - Talc free and silicone free

Construction

Description SILFLEX® CONTROL CABLE (C) PVC
Number of conductors/cross-section (12×AWG14)
Number of conductors 12
Cross-section, metric 2.5 mm²

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SYSTEMATIC TECHNOLOGY

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Cross-section AWG	AWG 14
Jacket material	PVC
Jacket color	grey similar to RAL 7001
Outer Ø	16.3 mm
Outer Ø	0.64 inch
Weight	47 kg/100 m
Weight	316 Lbs/Mft
Cu-Index	27 kg/100 m
Cu-Index	182 Lbs/Mft

Construction Element 1

Element construction	AWG14/12C
Conductor construction	AWG 14 (41/30)
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 THHN – THWN

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Aluminium laminate Foil shield Braid shield tinned copper wires
Jacket characteristics	Oil resistant Silicone-free

Technical data

Rated voltage U_N	600 V 90C UL TC-ER-JP 1000 V WTTTC 90C 600 V UL MTW 1000 V 80 °C 1000 V UL AWM
Temperature range fixed	+90 °C ... +105 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG14/12C
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Certifications/Standards

Certifications	UL AWM 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

General

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