

Technical data sheet

Flexible Premium TPE Control and Tray Cable for Stationary Applications · Shielded

LUTZE SILFLEX® (C) Tray-ER TPE



Identification

Type SI N(C)TPE TRAY-ER (18×AWG16) SW
Part No. [A3311618](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Multi-wire control cables with TC-ER „Exposed Run“ approval
 - Metal cutting equipment, machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications
 - Compliant with NFPA 79 requirements
 - TC-ER for use with cable trays without conduit, which can reduce material and labor costs
 - WTTC – wind turbine tray cable rating for use in wind power generation
 - Dry, damp or wet locations
- Properties
- Crush impact resistant
 - Gas/vapor-tight sheath per UL 1277
 - Cutting oil resistant - mineral and bio/vegetable based oil, specially tested with plant based cutting oil.
 - Non-wicking fillers
 - Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
 - Specially formulated TPE jacket for superior oil resistance
 - Sunlight resistant
 - Flame-retardant
 - Talc free and silicone free

Construction

Description SILFLEX® (C) TRAY-ER TPE
Number of conductors/cross-section (18×AWG16)
Number of conductors 18
Cross-section, metric 1.5 mm²

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0 • Fax +49 (0)7151 6053-277(-288)
www.luetze.de • info@luetze.de

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Cross-section AWG	AWG 16
Jacket material	TPE
Jacket color	black similar to RAL 9005
Outer Ø	16.6 mm
Outer Ø	0.655 inch
Weight	353 Lbs/Mft
Cu-Index	191 Lbs/Mft

Construction Element 1

Element construction	AWG16/18C
Conductor construction	AWG 16 (26/30)
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

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

Technical data

Rated voltage U_N	600 V TC-ER 90C 1000 V WTTC 90C 600 V UL MTW 600 V UL AWM 105 °C
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG16/18C
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Certifications/Standards

Certifications	UL Type TC-ER cURus cULus UL Type MTW or DP-1 WTTTC Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277
UL style	AWM 21270
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II Oil Res I

General

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