

# Technical data sheet · LÜTZE SILFLEX® Tray-ER TPE with UL/TC-ER/WTTC/MTW/CE Approvals

Flexible Tray Cable · Shielded



<b>Identification</b>	Type	SI N(C)TPE TRAY-ER (12×AWG18) SW
	Part-No.	A3311812

## Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Shielded multi-conductor cable for tray applications, with <b>exposed run</b> (open wiring) approval</li> <li>• Compliant with <b>NFPA 79</b> for machine tool wiring</li> <li>• <b>TC-ER</b> for use with cable trays <b>without conduit</b>, which can reduce material and labor costs</li> <li>• Metal cutting equipment, machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications</li> <li>• WTTC – wind turbine tray cable rating for use in wind power generation</li> <li>• Dry, damp and wet locations</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>• Flexible design with Nylon for crush impact resistance per UL 1277 and easy installation</li> <li>• Specially formulated TPE jacket for superior oil resistance</li> <li>• Cutting oil resistant – mineral &amp; bio/vegetable based oil *specially tested with plant based cutting oil</li> <li>• Sunlight resistant</li> <li>• Direct burial</li> <li>• UL Type TC-Exposed Run</li> <li>• Talc free</li> <li>• Silicone free</li> </ul>

## Construction

11.03.2017 – Subject to technical modification

Part-No. A3311812

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SYSTEMATIC TECHNOLOGY

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Description	SILFLEX (C) TRAY-ER TPE
Number of conductors/cross-section	(12×AWG18)
Jacket material	TPE
Jacket color	black RAL 9005
Outer Ø	12.2 mm
Outer Ø	0.479 inches
Weight	176 Lbs/Mft
Cu-Index	85 Lbs/Mft

## Element 1

Element construction	AWG18/12C
Conductor construction	AWG 18 (16/30)
Conductor	AWG conductor CU-wire bare
Conductor category	feindrähtig
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 mineral oil-resistant bio-oil-resistant

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## Technical data

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

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Element construction	AWG18/12C
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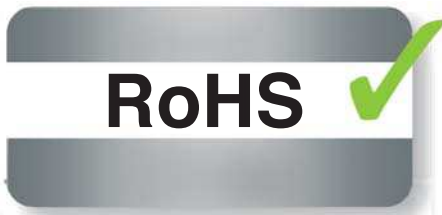
## Approvals/Standards

Approvals	TC-ER cURus cULus UL Type MTW or DP-1 WTTC Class 1 Div. 2 per NEC Art. 336, 392, 501 cUL TC CIC FT4 UL 1277
Conformity	CE REACH RoHS
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

## Symbols



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