

Technical data sheet

TPE Control Cable · unshielded

LUTZE MOTIONFLEX® TRAY-ER TPE

Flexing Control Cable for Linear and Twisting Motion Application



Identification

Type MO TRAY-ER TPE 12×AWG18
Part No. [A4221812](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Multi-conductor cable suitable for continuous motion applications with repetitive movement, linear flexing, and torsional stress• Compatible with all major drag chain brands• Compliant with NFPA 79 for wiring of industrial machinery• 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 conditions |
| Properties | <ul style="list-style-type: none">• Highly flexible conductor design• Specially formulated jacket for oil resistance• Easy strip design• Cutting oil resistant - mineral and bio/vegetable based oil, specially tested with plant based cutting oil.• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Crush impact resistant• Gas/vapor-tight sheath per UL 1277• Sunlight resistant• Flame-retardant• Talc free and silicone free |

Construction

Description	LUTZE MOTIONFLEX® TRAY-ER TPE
Number of conductors/cross-section	12×AWG18
Number of conductors	12

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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SYSTEMATIC TECHNOLOGY

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Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18
Jacket material	TPE
Jacket color	black similar to RAL 9005
Outer Ø	11.3 mm
Outer Ø	0.447 inch
Weight	133 Lbs/Mft
Cu-Index	63 Lbs/Mft

Construction Element 1

Conductor construction	AWG 18 (41/34)
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire
Conductor marking	black · with white number print · green/yellow
Conductor insulation	PVC/Nylon

Overall construction

Jacket characteristics	Flame-retardant Silicone-free UV resistant (normal lighting conditions)
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Technical data

Rated voltage U _N	600 V TC-ER 1000 V WTTC
Temperature range moving	-5 °C ... +90 °C
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	4×D
Torsion	± 180°/m

Certifications/Standards

Certifications	UL Type TC-ER cURus cULus WTTC 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 REACH RoHS
UL style	AWM 21270
Conformity	CE RoHS REACH TSCA

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Oil resistant according to	Oil Res I Oil Res II
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General

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