

## Technical data sheet

TPE Control Cable · shielded

### LUTZE MOTIONFLEX® (C) TRAY-ER TPE

Flexing Control Cable for Linear and Twisting Motion Application



#### Identification

Type MO (C) TRAY-ER TPE (5×AWG10)  
Part No. [A4211005](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |  |
|-------------|--|
| Application | <ul style="list-style-type: none"><li>• Shielded multi-conductor cable suitable for continuous motion applications with repetitive movement, linear flexing, and torsional stress</li><li>• Compatible with all major drag chain brands</li><li>• Compliant with NFPA 79 for wiring of industrial machinery</li><li>• TC-ER for use with cable trays without conduit, which can reduce material and labor costs</li><li>• WTTC – wind turbine tray cable rating for use in wind power generation</li><li>• Dry, damp or wet conditions</li></ul>   |
| Properties  | <ul style="list-style-type: none"><li>• Highly flexible conductor design</li><li>• Specially formulated jacket for oil resistance</li><li>• Easy strip design</li><li>• Cutting oil resistant - mineral and bio/vegetable based oil, specially tested with plant based cutting oil.</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Crush impact resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Sunlight resistant</li><li>• Flame-retardant</li><li>• Talc free and silicone free</li></ul> |

#### Construction

Number of conductors/cross-section (5×AWG10)  
Number of conductors 5  
Cross-section, metric 6 mm<sup>2</sup>

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Cross-section AWG	AWG 10
Jacket material	TPE
Jacket color	black RAL 9005
Outer Ø	16.6 mm
Outer Ø	0.657 inch
Weight	345 Lbs/Mft
Cu-Index	219 Lbs/Mft

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#### Construction Element 1

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Conductor construction	AWG 10 (259/34)
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire
Conductor marking	black • with white number print • green/yellow
Conductor insulation	PVC/Nylon

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#### Overall construction

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Overall shield	Braid shield tinned copper wires optical cover approx. 80 %
Jacket characteristics	Flame-retardant Silicone-free UV resistant (normal lighting conditions)

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#### Technical data

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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	12×D
Minimum bending radius fixed	6×D
Torsion	± 130°/m

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#### Certifications/Standards

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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

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Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res I Oil Res II

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#### General

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