

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 (3×AWG18)
Part No. [A4211803](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Shielded 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

Number of conductors/cross-section (3×AWG18)
Number of conductors 3
Cross-section, metric 1 mm²

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11.07.2023 • Subject to technical modification

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SYSTEMATIC TECHNOLOGY

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Cross-section AWG	AWG 18
Jacket material	TPE
Jacket color	black RAL 9005
Outer Ø	7.8 mm
Outer Ø	0.31 inch
Weight	59 Lbs/Mft
Cu-Index	26 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

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

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

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

General

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