

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 (4×AWG18)
Part No. [A4211804](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- 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
- 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 (4×AWG18)
Number of conductors 4
Cross-section, metric 1 mm²

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Part No. [A4211804](#) • Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

Technical data sheet

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Cross-section AWG	AWG 18
Jacket material	TPE
Jacket color	black RAL 9005
Outer Ø	8.3 mm
Outer Ø	0.33 inch
Weight	70 Lbs/Mft
Cu-Index	32 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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