

Technical data sheet

TPE Control Cable · shielded

LUTZE MOTIONFLEX® (C) TRAY-ER TPE

Flexing Control Cable for Linear and Twisting Motion Application



MOTIONFLEX



ECOLAB®



Identification

Type MO (C) TRAY-ER TPE (5×AWG10)

Part No. [A4211005](#)

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 (5×AWG10)

Number of conductors 5

Cross-section, metric 6 mm²

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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Part No. [A4211005](#) • Datasheet version: 00

page 1 of 3

Technical data sheet

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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

Construction Element 1

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

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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