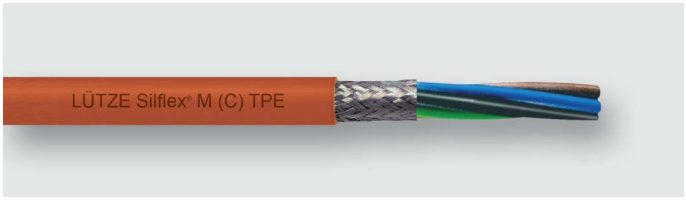
Technical data sheet

TPE Motor cables · static · shielded

LUTZE SILFLEX® M (C) MOTOR TPE
Flexible Motor Cable for Allen-Bradley and other systems



Identification

Type	SI M(C)TPE SE(4GAWG8+(2×AWG18)) 0,6/1KV OR
Part No.	A3170804

Product version

Datasheet version	00

Use/Application/Properties

Application

- Shielded motor supply cable to connect power to 3-phase motors. VFD's and Servo Drives
- Cable design for harsh industrial environments and operating conditions with high noise levels
- Improved insulation design with additional conductor stress relief layer as a power distortion suppressant
- Compliant with NFPA 79 requirements
- TC-ER for use with cable trays without conduit, which can reduce installation costs in industrial environments
- Dry, damp or wet locations

Properties

- Improved Design with conductor stress relief layer helps to prevent premature cable failure and reduces corona effects, increasing reliablility and lifetime
- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Very round cable with small Diameter
- Specially formulated TPE jacket for superior oil resistance
- Largely resistant to mineral and vegetable-based cutting oils
- Non-wicking fillers
- Sunlight resistant
- Flame-retardant
- Talc free and silicone free

Construction

Description	SILFLEX® M (C) TPE

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Number of conductors/cross-section	(4×AWG8+1×2×AWG18)
Number of conductors	6
Cross-section, metric	10 mm²
Cross-section AWG	AWG 8
Jacket material	TPE
Jacket color	orange RAL 2003
Outer Ø	22.5 mm
Outer Ø	0.89 inch
Weight	568 Lbs/Mft
Cu-Index	285 Lbs/Mft

Construction Element 1

Element construction	AWG8/4C
Conductor construction	AWG 8 (168/30)
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire Class K
Conductor marking	brown • black • blue • green/yellow
Conductor insulation	PVC/Nylon

Construction Element 2

Element construction	AWG18/1TSP
Conductor construction	AWG 18
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire
Conductor marking	black • white
Conductor insulation	PVC/Nylon
Stranding	conductors stranded in pairs

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Oil resistant mineral oil-resistant bio-oil-resistant Silicone-free

Technical data

Rated voltage U_N	600 V UL TC 600 V UL MTW 1000 V WTTC 1000 V Flexible Motor Supply 600 V UL AWM 105 °C
Temperature range fixed	-40 °C … +105 °C

Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG8/4C

Technical Data Element 2

Element construction	AWG18/1TSP

Certifications/Standards

Certifications	UL Flexible Motor Supply Cable UL Type TC-ER cULus UL AWM UL MTW WTTC Class I and II, Div. 2 Class 1 Div. 2 per NEC Zone 2 per NEC 501, 502, 505 cUL TC CIC FT4 UL 1277
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