

Technical data sheet

LUTZE SILFLEX® M FBP · Shielded

Flexible Motor Cable for Food and Beverage Processing



Identification

Type SI M FBP (C) TPE (4×AWG18)
Part No. [A6061804](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Dual-shielded motor supply cable to connect power to 3-phase-motors, VFDs and servo drives• For machine and handling devices in food, beverage and drug processing applications• FDA sanctioned jacket material for direct food contact per 21 CFR• Compliant with NFPA 79, Article 12.9• Suitable for use in food contact zone, splash zone and non-contact zones• Thermoset XLPE insulation offers superior electrical values for VFD applications |
| Properties | <ul style="list-style-type: none">• FDA compliance tested per 21 CFR 175.300• REACH 1907/2006/EC compliant• Phthalate free jacket• Low-capacitance cable• High protection against electromagnetic interferences (EMI)• Easy stripping and fast installation• Easy routing and bending due to flexibility• Resistance to most oils and fats• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Non-wicking fillers• Flame-retardant• Talc free and silicone free• Patented design US-11443871-B2 |

Construction

Description SILFLEX® M FBP (C) TPE

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11.07.2023 • Subject to technical modification

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Number of conductors/cross-section	4×AWG18
Number of conductors	4
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18
Jacket material	Thermoplastic Polymer
Jacket color	black similar to RAL 9005
Outer Ø	10.5 mm
Outer Ø	0.415 inch
Weight	108 Lbs/Mft
Cu-Index	6.24 kg/100 m
Cu-Index	42 Lbs/Mft

Construction Element 1

Element construction	4xAWG18
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black • with white number print • green/yellow
Conductor insulation	XLPE XHHW-2 Wet/Dry

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	aluminium-laminated film shield Braid shield tinned copper wires optical cover approx. 80 %

Technical data

Rated voltage UL	1000 V
Temperature according to UL	90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	4xAWG18
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Certifications/Standards

Certifications	21 CFR 175.300 NFPA 79, Artikel 12.9
UL style	AWM 20886

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LUTZE SILFLEX® M FBP · Shielded

Conformity	CE RoHS REACH TSCA
Burning behavior according to	UL 1581 cable flame

General

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