

Technical data sheet

LUTZE SILFLEX® M FBP · Shielded

Flexible Motor Cable for Food and Beverage Processing



Identification

Type SI M FBP (C) TPE (4×AWG12)
Part No. [A6061204](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- 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
- 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×AWG12
Number of conductors	4
Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	Thermoplastic Polymer
Jacket color	black similar to RAL 9005
Outer Ø	13 mm
Outer Ø	0.51 inch
Weight	208 Lbs/Mft
Cu-Index	17.54 kg/100 m
Cu-Index	118 Lbs/Mft

Construction Element 1

Element construction	4xAWG12
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	4xAWG12
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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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