

Technical data sheet

LUTZE SILFLEX® FBP (C) · Shielded

Flexible Control Cable for Food and Beverage Processing



Identification

Type SI FBP (C) TPE (4×AWG10)
Part No. [A6021004](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- Dual-shielded multi-conductor control cable 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
- Properties
- FDA compliance tested per 21 CFR 175.300
 - California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) compliant
 - REACH 1907/2006/EC compliant
 - RoHS Directive EU 2015/863 compliant
 - Phthalate free jacket
 - High protection against electromagnetic interferences (EMI)
 - Low-capacitance cable
 - Easy stripping and fast installation
 - Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
 - Easy routing and bending due to flexibility
 - Resistance to most oils and fats
 - Small cable diameters
 - Non-wicking fillers
 - Talc free and silicone free
 - Patented design US-11443871-B2

Construction

Description SILFLEX® FBP (C) TPE
Number of conductors/cross-section 4×AWG10

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SYSTEMATIC TECHNOLOGY

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Number of conductors	4
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	Thermoplastic Polymer
Jacket color	black similar to RAL 9005
Outer Ø	13.7 mm
Outer Ø	0.54 inch
Weight	384 Lbs/Mft
Cu-Index	26.45 kg/100 m
Cu-Index	178 Lbs/Mft

Construction Element 1

Element construction	4xAWG10
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire Class K
Conductor marking	black • with white number print • green/yellow
Conductor insulation	PP

Overall construction

Drain wire	CU-wire bare
Overall shield	aluminium-laminated film shield Braid shield tinned copper wires optical cover approx. 75 %

Technical data

Rated voltage U _N	1000 V 90C UL AWM 20886
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	4xAWG10
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Certifications/Standards

Certifications	21 CFR 175.300
UL style	AWM 20886
Conformity	CE RoHS REACH TSCA
Burning behavior according to	UL 1581 cable flame

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General

Note

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