

Technical data sheet

LUTZE SILFLEX® FBP (C) · Shielded

Flexible Control Cable for Food and Beverage Processing



Identification

Type SI FBP (C) TPE (7×AWG14)
Part No. [A6021407](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 7×AWG14

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Number of conductors	7
Cross-section, metric	2.5
Cross-section AWG	AWG 14
Jacket material	Thermoplastic Polymer
Jacket color	black similar to RAL 9005
Outer Ø	11.4 mm
Outer Ø	0.449 inch
Weight	179 Lbs/Mft
Cu-Index	16.94 kg/100 m
Cu-Index	114 Lbs/Mft

Construction Element 1

Element construction	7xAWG14
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	7xAWG14
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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