

## Technical data sheet

### LUTZE SILFLEX® FBP (C) · Shielded

#### Flexible Control Cable for Food and Beverage Processing



#### Identification

Type SI FBP (C) TPE (4×AWG12)  
Part No. [A6021204](#)

#### 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×AWG12

#### United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington · GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 · Fax +44 (0)1827 31333-2  
[www.lutze.com](http://www.lutze.com) · [sales.gb@lutze.co.uk](mailto:sales.gb@lutze.co.uk)

#### Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) · Bruckwiesenstraße 17-19 · D-71384 Weinstadt  
Tel. +49 (0)7151 6053-0 · Fax +49 (0)7151 6053-277(-288)  
[www.luetze.de](http://www.luetze.de) · [info@luetze.de](mailto:info@luetze.de)

07.07.2023 · Subject to technical modification

Part No. [A6021204](#) · Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

## Technical data sheet

### LUTZE SILFLEX® FBP (C) · Shielded

---

Number of conductors	4
Cross-section, metric	4 mm <sup>2</sup>
Cross-section AWG	AWG 12
Jacket material	Thermoplastic Polymer
Jacket color	black similar to RAL 9005
Outer Ø	11.2 mm
Outer Ø	0.439 inch
Weight	172 Lbs/Mft
Cu-Index	16.65 kg/100 m
Cu-Index	112 Lbs/Mft

---

#### Construction Element 1

---

Element construction	4xAWG12
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 <sub>N</sub>	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	4xAWG12
----------------------	---------

---

#### Certifications/Standards

---

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

---

## Technical data sheet

LUTZE SILFLEX® FBP (C) · Shielded

---

### General

---

Note

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