

## Technical data sheet

LUTZE SILFLEX® FBP · Unshielded

### Flexible Control Cable for Food and Beverage Processing



#### Identification

Type SI FBP TPE 5×AWG12  
Part No. [A6011205](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- Application
- 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
  - 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 TPE  
Number of conductors/cross-section 5×AWG12  
Number of conductors 5

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|                       |                           |
|-----------------------|---------------------------|
| 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               | 11.4 mm                   |
| Outer Ø               | 0.447 inch                |
| Weight                | 166 Lbs/Mft               |
| Cu-Index              | 15.61 kg/100 m            |
| Cu-Index              | 105 Lbs/Mft               |

#### Construction Element 1

|                      |                                                |
|----------------------|------------------------------------------------|
| Element construction | 5xAWG12                                        |
| Conductor            | AWG conductor<br>CU-wire bare                  |
| Conductor category   | fine wire<br>Class K                           |
| Conductor marking    | black • with white number print • green/yellow |
| Conductor insulation | PP                                             |

#### 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 | 4×D                     |

#### Technical Data Element 1

|                      |         |
|----------------------|---------|
| Element construction | 5xAWG12 |
|----------------------|---------|

#### Certifications/Standards

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Certifications                | 21 CFR 175.300<br>NFPA 79, Artikel 12.9 |
| UL style                      | AWM 20886                               |
| Conformity                    | CE<br>RoHS<br>REACH<br>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 |
|------|----------------------------------------------------------------------------------|