

## Technical data sheet

LUTZE SILFLEX® FBP · Unshielded

### Flexible Control Cable for Food and Beverage Processing



#### Identification

Type SI FBP TPE 4×AWG6  
Part No. [A6010604](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Multi-conductor control cable for machine and handling devices in food, beverage and drug processing applications</li><li>• FDA sanctioned jacket material for direct food contact per 21 CFR</li><li>• Compliant with NFPA 79, Article 12.9</li><li>• Suitable for use in food contact zone, splash zone and non-contact zones</li></ul>                                                                                                                                                                                                                                                                                                                                                                                               |
| Properties  | <ul style="list-style-type: none"><li>• FDA compliance tested per 21 CFR 175.300</li><li>• California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) compliant</li><li>• REACH 1907/2006/EC compliant</li><li>• RoHS Directive EU 2015/863 compliant</li><li>• Phthalate free jacket</li><li>• Low-capacitance cable</li><li>• Easy stripping and fast installation</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Easy routing and bending due to flexibility</li><li>• Resistance to most oils and fats</li><li>• Small cable diameters</li><li>• Non-wicking fillers</li><li>• Talc free and silicone free</li><li>• Patented design US-11443871-B2</li></ul> |

#### Construction

|                                    |                  |
|------------------------------------|------------------|
| Description                        | SILFLEX® FBP TPE |
| Number of conductors/cross-section | 4×AWG6           |
| Number of conductors               | 4                |

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|                       |                           |
|-----------------------|---------------------------|
| Cross-section, metric | 16 mm <sup>2</sup>        |
| Cross-section AWG     | AWG 6                     |
| Jacket material       | Thermoplastic Polymer     |
| Jacket color          | black similar to RAL 9005 |
| Outer Ø               | 18.2 mm                   |
| Outer Ø               | 0.718 inch                |
| Weight                | 453 Lbs/Mft               |
| Cu-Index              | 50.38 kg/100 m            |
| Cu-Index              | 339 Lbs/Mft               |

#### Construction Element 1

|                      |                                                |
|----------------------|------------------------------------------------|
| Element construction | 4×AWG6                                         |
| 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 | 4×AWG6 |
|----------------------|--------|

#### 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 |
|------|----------------------------------------------------------------------------------|