

## Technical data sheet

PVC motor and servo cables · unshielded

### LUTZE SILFLEX® M XLPE PVC

Flexible Motor Supply Cable XHHW-2 for Stationary Applications



#### Identification

Type SI M XLPE PVC 4×AWG4  
Part No. [A1100404](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Motor supply cable to connect power to 3-phase-motors and servo drives</li><li>• Thermoset XLPE insulation offering superior overload and short-circuit temperature</li><li>• Compliant with NFPA 79 requirements</li><li>• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments</li><li>• WTTC – wind turbine tray cable rating for use in wind power generation</li><li>• Dry, damp or wet conditions</li></ul>                                                                 |
| Properties  | <ul style="list-style-type: none"><li>• Flexible XLPE conductors</li><li>• Reduced cable diameter</li><li>• High insulation resistance</li><li>• Low capacitance cable</li><li>• Specially formulated jacket for oil resistance and easy strip design</li><li>• Non-wicking fillers</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Crush impact resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Sunlight resistant</li><li>• Flame retardant</li><li>• Direct burial</li></ul> |

#### Construction

|                                    |                     |
|------------------------------------|---------------------|
| Description                        | SILFLEX® M XLPE PVC |
| Number of conductors/cross-section | 4×AWG4              |
| Number of conductors               | 4                   |
| Cross-section, metric              | 25 mm <sup>2</sup>  |
| Cross-section AWG                  | AWG 4               |
| Jacket material                    | PVC                 |

#### USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222  
[www.lutze.com](http://www.lutze.com) • [info@lutze.com](mailto:info@lutze.com)

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|              |                           |
|--------------|---------------------------|
| Jacket color | black similar to RAL 9005 |
| Outer Ø      | 27 mm                     |
| Outer Ø      | 1.06 inch                 |
| Weight       | 842 Lbs/Mft               |
| Cu Index     | 527 Lbs/Mft               |

#### Construction Element 1

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Element construction   | AWG4/04C                                                         |
| Conductor construction | AWG 4 (420/30)                                                   |
| Conductor              | AWG conductor<br>CU-wire tin-plated                              |
| Conductor category     | Fine wire<br>Class K                                             |
| Conductor marking      | black · with white number print · Ground conductor: green/yellow |
| Conductor insulation   | XLPE<br>XHHW-2<br>Wet/Dry                                        |

#### Technical data

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| Rated voltage $U_N$          | 600 V TC-ER 90C<br>1000 V Flexible VFD servo cable 90C<br>1000 V WTTC 90C<br>1000 V 105C AWM |
| Temperature range moving     | -40 °C ... +90 °C                                                                            |
| Temperature range fixed      | -40 °C ... +105 °C                                                                           |
| Minimum bending radius fixed | 4×cable OD                                                                                   |

#### Technical Data Element 1

|                      |          |
|----------------------|----------|
| Element construction | AWG4/04C |
|----------------------|----------|

#### Approvals/Standards

|                            |                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals                  | UL Flexible Motor Supply Cable<br>Flexible VFD Servo Cable<br>TC-ER<br>WTTC<br>UL DP-1<br>Meets NEC 336, 392<br>Class I and II, Div. 2<br>Zone 2 per NEC 501, 502, 505<br>Submersible Pump<br>C(UL) TC and CIC FT4<br>UL 1277 |
| UL style                   | AWM 20886                                                                                                                                                                                                                     |
| Conformity                 | CE<br>RoHS<br>REACH<br>TSCA                                                                                                                                                                                                   |
| Oil resistant according to | Oil Res II                                                                                                                                                                                                                    |

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### General

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Note

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