

# Technical data sheet - LUTZE DRIVEFLEX® XLPE (C) Servo I PVC with one Control pair and UL/TC-ER/WTTC/CE Approvals



Flexible Composite VFD, Servo &  
Motor Supply Cable - Shielded

|                       |          |   |
|-----------------------|----------|---|
| <b>Identification</b> | Type     | VFD XLPE (C) SE I PVC<br>(4xAWG8+(2xAWG14)) |
|                       | Part-No. | A2170804                                    |

## Use/Application/Characteristics

|                 |   |
|-----------------|---|
| Application     | <ul style="list-style-type: none"> <li>• Shielded multi-conductor cable for VFD and Motor applications to connect power from drives to motors</li> <li>• Cable design for harsh industrial environments and operating conditions with high noise levels</li> <li>• XLPE thick wall insulation with low capacitance, ideal for applications with <b>high voltage spikes and long cable runs</b></li> <li>• Compliant with <b>NFPA 79</b> for wiring of industrial machinery</li> <li>• <b>TC-ER</b> for use with cable trays <b>without conduit</b>, which can reduce material and labor costs</li> <li>• WTTC – wind turbine tray cable rating for use in wind power generation</li> <li>• Dry, damp or wet conditions</li> </ul> |
| Characteristics | <ul style="list-style-type: none"> <li>• Flexible XLPE conductor design</li> <li>• Non-wicking fillers</li> <li>• Effective dual layer shield for EMC compliance</li> <li>• Specially formulated jacket for oil resistance and easy strip design</li> <li>• Low capacitance cable</li> <li>• Sunlight resistant</li> <li>• Direct burial</li> <li>• UL Type TC-Exposed Run</li> <li>• Talc free and silicone free</li> </ul>  |

28.11.2017 – Subject to technical modification

Part-No. A2170804

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SYSTEMATIC TECHNOLOGY

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## Construction

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|                                    |                                |
|------------------------------------|--------------------------------|
| Description                        | DRIVEFLEX XLPE (C) SERVO I PVC |
| Number of conductors/cross-section | (4AWG8+1x2xAWG14)              |
| Jacket material                    | PVC                            |
| Jacket color                       | black RAL 9005                 |
| Outer Ø                            | 26 mm                          |
| Outer Ø                            | 1.025 inches                   |
| Weight                             | 106.1 kg/100 m                 |
| Weight                             | 713 Lbs/Mft                    |
| Cu-Index                           | 321 Lbs/Mft                    |

### Element 1

|                        |  |
|------------------------|--|
| Element construction   | AWG8/4C  |
| Conductor construction | AWG 8 (168/30)                                   |
| Conductor              | AWG conductor<br>CU-wire tin-plated              |
| Conductor category     | fine wire  |
| Conductor marking      | black<br>with white number print<br>green/yellow |
| Conductor insulation   | XLPE<br>RHW-2                                    |
| Stranding              | Strands braided together                         |

### Element 2

|                        |                                     |
|------------------------|-------------------------------------|
| Element construction   | AWG14/1TSP                          |
| Conductor construction | AWG 14 (41/30)                      |
| Conductor              | AWG conductor<br>CU-wire tin-plated |
| Conductor category     | fine wire                           |
| Conductor marking      | black<br>with white number print    |
| Conductor insulation   | XLPE<br>XHHW-2                      |
| Stranding              | Conductors stranded in pairs        |

### overall construction

|            |                    |
|------------|--------------------|
| Drain wire | CU-wire tin-plated |
|------------|--------------------|

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|                        |   |
|------------------------|---|
| Overall shield         | Foil shield<br>Tinned copper wires<br>Braid shield<br>optical cover approx. 80% |
| Jacket characteristics | Oil resistant<br>Silicone-free  |

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## Technical data

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|                              |   |
|------------------------------|---|
| Rated voltage                | 600 V TC-ER<br>1000 V Flexible VFD servo cable 90C<br>1000 V WTTC |
| Temperature range fixed      | -40 °C ... +90 °C   |
| Minimum bending radius fixed | 6xD   |

## Element 1

|                      |         |
|----------------------|---------|
| Element construction | AWG8/4C |
|----------------------|---------|

## Element 2

|                      |            |
|----------------------|------------|
| Element construction | AWG14/1TSP |
|----------------------|------------|

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## Approvals/Standards

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|                            |  |
|----------------------------|--|
| Approvals                  | cULus<br>TC-ER<br>UL DP-1<br>WTTC<br>Class 1 Div. 2 per NEC<br>Art. 336, 392, 501<br>cUL TC<br>CIC FT4<br>UL 1277<br>Wet/Dry<br>P-07-KA130021-MSHA |
| Conformity                 | CE<br>RoHS<br>REACH  |
| 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 |
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## Symbols

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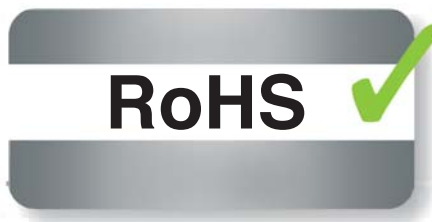
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