

# Technical data sheet - Flexible VFD Cable XHHW-2 with one Control Pair and UL Approval



**LUTZE DRIVEFLEX® XLPE (C) 1 TSP PVC, Shielded**

|                       |          |   |
|-----------------------|----------|---|
| <b>Identification</b> | Type     | DR XLPE (C) 1TSP PVC (4GA-WG14+1x2xAWG16) |
|                       | Part-No. | A1071404                                  |

## Use/Application/Characteristics

|                 |   |
|-----------------|---|
| Application     | <ul style="list-style-type: none"> <li>• Shielded motor supply cable to connect power to 3-phase motors. VFD's and Servo Drives</li> <li>• Cable design for harsh industrial environments and operating conditions with high noise levels</li> <li>• Thermoset XLPE offering superior overload and short-circuit temperature</li> <li>• Type XHHW-2 insulation offering smaller ODs for general VFD applications</li> <li>• Compliant with NFPA 79 for wiring of industrial machinery</li> <li>• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments per NEC 336.10 (7)</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>• Reduced cable ODs</li> <li>• High insulation resistance</li> <li>• Low capacitance cable</li> <li>• Effective dual layer shield for EMC compliance</li> <li>• Specially formulated jacket for oil resistance and easy strip</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> <li>• Talc and Silicone free</li> </ul>   |

## Construction

|             |                               |
|-------------|-------------------------------|
| Description | DRIVEFLEX® XLPE (C) 1 TSP PVC |
|-------------|-------------------------------|

26.11.2018 – Subject to technical modification

Part-No. A1071404

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|                                    |                     |
|------------------------------------|---------------------|
| Number of conductors/cross-section | (4xAWG14+1x2xAWG16) |
| Jacket material                    | PVC                 |
| Jacket color                       | black RAL 9005      |
| Outer Ø                            | 15.2 mm             |
| Outer Ø                            | 0.6 inches          |
| Weight                             | 234 Lbs/Mft         |
| Cu-Index                           | 112 Lbs/Mft         |

## Element 1

|                      |  |
|----------------------|--|
| Element construction | 41/30  |
| 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>XHHW-2<br>Wet/Dry                        |

## Element 2

|                      |                                     |
|----------------------|-------------------------------------|
| Element construction | 26/30                               |
| Conductor            | AWG conductor<br>CU-wire tin-plated |
| Conductor marking    | black<br>with white number print    |
| Conductor insulation | XLPE<br>XHHW-2<br>Wet/Dry           |
| Stranding            | conductors stranded in pairs        |

## overall construction

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

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|                         |   |
|-------------------------|---|
| Rated voltage $U_N$     | 600 V 90C UL TC-ER-JP<br>1000 V Flexible VFD servo cable 90C<br>Cable, 1000 V 105C AWM<br>1000 V WTTC |
| Temperature range fixed | -40 °C ... +90 °C   |
| Bending radius          | 6 × D   |

## Element 1

|                      |       |
|----------------------|-------|
| Element construction | 41/30 |
|----------------------|-------|

## Element 2

|                      |       |
|----------------------|-------|
| Element construction | 26/30 |
|----------------------|-------|

## Approvals/Standards

|                            |  |
|----------------------------|--|
| Approvals                  | UL Flexible Motor Supply Cable<br>Flexible VFD Servo Cable<br>cULus<br>TC-ER<br>WTTC<br>UL DP-1<br>Meets NEC 336,392<br>Class I & II, Div. 2<br>501, 502, 505<br>cUL TC<br>CIC FT4<br>UL 1277<br>cURus |
| UL style                   | AWM 20886  |
| Conformity                 | CE<br>RoHS<br>REACH  |
| Oil resistant according to | Oil Res I<br>Oil Res II  |

## General

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

## Symbols



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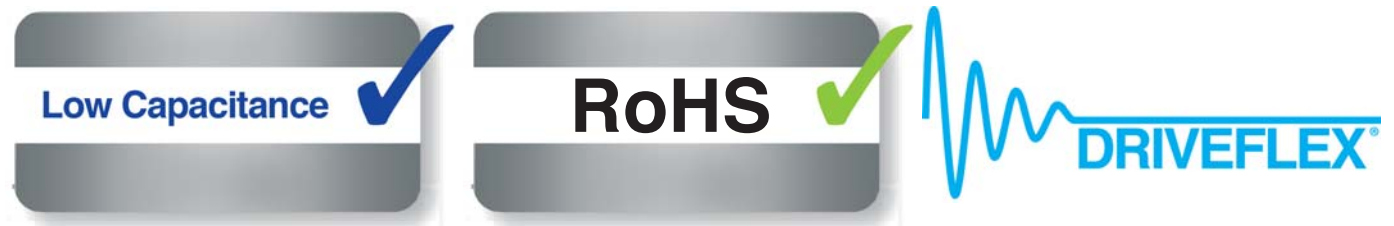
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