

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

| | | |
|-----------------------|----------|---|
| Identification | Type | VFD XLPE (C) SE I PVC (4×AWG4+(2×AWG14)) |
| | Part-No. | A2170404 |

Use/Application/Characteristics

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

10.03.2017 – Subject to technical modification

Part-No. A2170404

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SYSTEMATIC TECHNOLOGY

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Construction

| | |
|------------------------------------|--------------------------------|
| Description | DRIVEFLEX XLPE (C) SERVO I PVC |
| Number of conductors/cross-section | (4AWG4+1×2×AWG14) |
| Jacket material | PVC |
| Jacket color | black RAL 9005 |
| Outer Ø | 31 mm |
| Outer Ø | 1.22 inches |
| Weight | 169.9 kg/100 m |
| Weight | 1142 Lbs/Mft |
| Cu-Index | 651 Lbs/Mft |

Element 1

| | |
|------------------------|--|
| Element construction | AWG4/4C |
| Conductor construction | AWG 4 (413/30) |
| Conductor | AWG conductor CU-wire tin-plated |
| Conductor category | feindrähtig |
| Conductor marking | black with white number print green/yellow |
| Conductor insulation | XLPE RHW-2 |
| Stranding | Strands braided together |

Element 2

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

overall construction

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

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

Technical data

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

Element 1

| | |
|----------------------|---------|
| Element construction | AWG4/4C |
|----------------------|---------|

Element 2

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

Approvals/Standards

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