

Technical data sheet

Flexible Composite VFD Cable · shielded

LUTZE DRIVEFLEX® XLPE (C) 1 TSP PVC With one Control pair for Stationary Applications



Identification

Type DR XLPE (C) SE I PVC (4×AWG8+(2×AWG14))
Part No. [A2170804](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Dual-shielded motor supply cable to connect power to 3-phase-motors, VFDs and servo drives• Cable design for harsh industrial environments and operating conditions with high noise levels• Thermoset XLPE offering superior overload and short-circuit temperature• Increased wall thickness insulation type RHW-2, offering lower capacitance and higher impedance making it ideal for applications with high voltage spikes and long cable run• Compliant with NFPA 79 requirements• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments• WTTC – wind turbine tray cable rating for use in wind power generation• Dry, damp or wet conditions |
| Properties | <ul style="list-style-type: none">• Flexible XLPE conductors• High insulation resistance• Low-capacitance cable• Effective EMC-compatible shielding thanks to 2-layer shield• Specially formulated jacket for oil resistance and easy strip design• Non-wicking fillers• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Crush impact resistant• Gas/vapor-tight sheath per UL 1277• Sunlight resistant• Flame-retardant• Direct burial• Talc free and silicone free |

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17.04.2023 • Subject to technical modification

Part No. [A2170804](#) • Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

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Construction

| | |
|------------------------------------|-------------------------------|
| Description | DRIVEFLEX® XLPE (C) 1 TSP PVC |
| Number of conductors/cross-section | (4AWG8+1×2×AWG14) |
| Number of conductors | 6 |
| Cross-section, metric | 10 mm ² |
| Cross-section AWG | AWG 8 |
| Jacket material | PVC |
| Jacket color | black similar to RAL 9005 |
| Outer Ø | 26 mm |
| Outer Ø | 1.025 inch |
| Weight | 106.1 kg/100 m |
| Weight | 713 Lbs/Mft |
| Cu-Index | 321 Lbs/Mft |

Construction Element 1

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

Construction Element 2

| | |
|------------------------|-------------------------------------|
| Element construction | AWG14/1TSP |
| Conductor construction | AWG 14 (41/30) |
| Conductor | AWG conductor CU-wire tin-plated |
| Conductor category | fine wire |
| 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 |
| Overall shield | Foil shield tinned copper wires Braid shield optical cover approx. 80 % |
| Jacket characteristics | Oil resistant Silicone-free |

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

Technical Data Element 1

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

Technical Data Element 2

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

Certifications/Standards

| | |
|----------------------------|---|
| Certifications | UL Flexible Motor Supply Cable Flexible VFD Servo Cable TC-ER-JP WTTC UL DP-1 Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 P-07-KA130021-MSHA |
| UL style | AWM 20886 |
| Conformity | CE RoHS REACH TSCA |
| Oil resistant according to | Oil Res II |

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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