

## 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×AWG14+(2×AWG16))  
Part No. [A2171404](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- Application
- 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
- 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

#### Construction

Description DRIVEFLEX® XLPE (C) 1 TSP PVC  
Number of conductors/cross-section (4AWG14+1×2×AWG16)

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Number of conductors	6
Cross-section, metric	2.5 mm <sup>2</sup>
Cross-section AWG	AWG 14
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	16.8 mm
Outer Ø	0.65 inch
Weight	39.4 kg/100 m
Weight	265 Lbs/Mft
Cu Index	117 Lbs/Mft

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#### Construction Element 1

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Element construction	AWG14/4C
Conductor construction	AWG 14 (41/30)
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
Cabling	strands braided together

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#### Construction Element 2

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Element construction	AWG16/1TSP
Conductor construction	AWG 16 (26/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	black • with white number print
Conductor insulation	XLPE XHHW-2
Cabling	conductors twisted in pairs

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#### Overall construction

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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×cable OD

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#### Technical Data Element 1

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Element construction	AWG14/4C
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#### Technical Data Element 2

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Element construction	AWG16/1TSP
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#### Approvals/Standards

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Approvals	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

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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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