

## Technical data sheet

### Flexible Composite VFD Cable with 3 Symmetrical Grounds for Stationary Applications · shielded

#### LUTZE DRIVEFLEX® XLPE (C) SYMMETRICAL



#### Identification

Type DR 3 XLPE (C) PVC (3×500MCM+3×AWG4)  
Part No. [A22050003](#)

#### 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
  - Three insulated symmetrical ground design helps to reduce stray currents
  - Cable design for harsh industrial environments and operating conditions with high noise levels
  - Thermoset XLPE offering superior overload and short-circuit temperature
  - Type XHHW-2 insulation offering smaller ODs for general VFD applications
  - Compliant with NFPA 79 requirements
  - TC-ER 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
  - Three symmetrical grounds (PE)
  - 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® 3 SYMMETRICAL GROUNDS  
Number of conductors/cross-section (3×MCM500+3×AWG4)

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Number of conductors	6
Cross-section, metric	240 mm <sup>2</sup>
Cross-section AWG	500 MCM
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	65.8 mm
Outer Ø	2.589 inch
Weight	6803 Lbs/Mft
Cu Index	5397 Lbs/Mft

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#### Construction Element 1

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Element construction	500MCM/3C
Conductor construction	3800 strands
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black · with white number print
Conductor insulation	XLPE XHHW-2

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#### Construction Element 2

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Element construction	AWG4/3C
Conductor construction	322 strands
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	green/yellow
Conductor insulation	XLPE 3C XHHW-2 (Ground/PEs)

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#### Overall construction

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Drain wire	CU-wire tin-plated
Overall shield	Foil shield Aluminium laminate Braid shield tinned copper wires optical cover approx. 80 %
Jacket characteristics	Oil resistant Silicone-free

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#### Technical data

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Rated voltage U <sub>N</sub>	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	7.5×cable OD

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#### Technical Data Element 1

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Element construction 500MCM/3C

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#### Technical Data Element 2

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Element construction AWG4/3C

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#### Approvals/Standards

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Approvals	cULus W TTC TC-ER cUL TC CIC FT4 Class 1 Div. 2 per NEC Art. 336, 392, 501 UL 1277 UL 2277 Wet/Dry P-07-KA130021-MSHA
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