

## Technical data sheet

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

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



#### Identification

Type DR 3 XLPE (C) PVC (3×AWG1+3×AWG8)  
Part No. [A2200103](#)

#### Product version

Datasheet version 01

#### 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 insulation 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

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Properties	<ul style="list-style-type: none"><li>• Flexible XLPE conductors</li><li>• Three symmetrical grounds (PE)</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 design</li><li>• Non-wicking fillers</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</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 free and silicone free</li></ul>
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#### Construction

Description	DRIVEFLEX® 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×AWG1+3×AWG8)
Number of conductors	6
Cross-section, metric	50 mm²
Cross-section AWG	AWG 1
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	35.2 mm
Outer Ø	1.385 inch
Weight	1600 Lbs/Mft
Cu-Index	1121 Lbs/Mft

#### Construction Element 1

Element construction	AWG1/03C
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

#### Construction Element 2

Element construction	AWG8/03C
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

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

#### Technical data

Rated voltage $U_N$	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×D

#### Technical Data Element 1

Element construction	AWG1/03C
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#### Technical Data Element 2

Element construction	AWG8/03C
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#### Certifications/Standards

Certifications	cULus WTTC TC-ER cUL TC CIC FT4 Meets NEC 336, 392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 UL 1277 UL 2277 Wet/Dry P-07-KA130021-MSHA
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

#### General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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### Flexible VFD Cable with 3 Symmetrical Grounds for Stationary Applications · shielded

#### PIN assignment

