

# Technical data sheet · LUTZE DRIVEFLEX® 3 SYMMETRICAL 1000 V with Three Symmetrical Grounds and UL 1 kV Voltage Rating



Flexible Composite VFD, Servo &  
Motor Supply Cable · Shielded

<b>Identification</b>	Type	VFD XLPE 3 (C) PVC (3×250MCM+3×AWG6)
	Part-No.	A22025003

## Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Shielded VFD and Motor cable to connect power from drives to motors</li> <li>• Three insulated symmetrical grounds design helps to reduce stray currents</li> <li>• Cable design for harsh industrial environments and operating conditions with high noise levels</li> <li>• 1 kV rated XLPE insulation with low capacitance, ideal for applications with <b>high voltage spikes and long cable runs</b></li> <li>• Compliant with <b>NFPA 79</b> for wiring of industrial machinery</li> <li>• <b>TC-ER</b> for use with cable trays <b>without conduit</b>, which can reduce material and labor costs</li> <li>• WTTC – wind turbine tray cable rating for use in wind power generation</li> <li>• Dry, damp or wet conditions</li> </ul>
-------------	---

29.01.2017 – Subject to technical modification

Part-No. A22025003

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · LUTZE DRIVEFLEX® 3 SYMMETRICAL 1000 V with Three Symmetrical Grounds and UL 1 kV Voltage Rating

Characteristics	<ul style="list-style-type: none"> <li>• Flexible XLPE conductors</li> <li>• Three symmetrical grounds (PE)</li> <li>• Non-wicking fillers</li> <li>• Effective dual layer shield for best EMC results</li> <li>• Specially formulated jacket for oil resistance and easy strip design</li> <li>• Low capacitance cable</li> <li>• Sunlight resistant</li> <li>• Direct burial</li> <li>• UL Type TC-Exposed Run</li> <li>• Talc free and silicone free</li> </ul>
-----------------	--

## Construction

Description	DRIVEFLEX 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×MCM250+3×AWG6)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	50.3 mm
Outer Ø	1.98 inches
Weight	3815 Lbs/Mft
Cu-Index	2851 Lbs/Mft

### Element 1

Element construction	250MCM/3C
Conductor construction	1904 Litzen
Conductor	AWG conductor CU-wire tin-plated
Conductor category	feindrähtig
Conductor marking	black with white number print
Conductor insulation	XLPE XHHW-2

### Element 2

Element construction	AWG6/3C
Conductor construction	206 Litzen
Conductor	AWG conductor CU-wire tin-plated
Conductor category	feindrähtig
Conductor marking	green/yellow
Conductor insulation	XLPE 3C XHHW-2 (Ground/PEs)

29.01.2017 – Subject to technical modification

Part-No. A22025003

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · LUTZE DRIVEFLEX<sup>®</sup> 3 SYMMETRICAL 1000 V with Three Symmetrical Grounds and UL 1 kV Voltage Rating

## 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	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

## Element 1

Element construction	250MCM/3C
----------------------	-----------

## Element 2

Element construction	AWG6/3C
----------------------	---------

## Approvals/Standards

Approvals	cULus WTTC 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
Oil resistant according to	Oil Res II

## General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

29.01.2017 – Subject to technical modification

Part-No. A22025003

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk

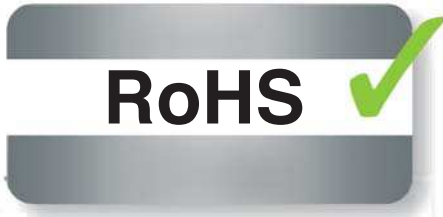


SYSTEMATIC TECHNOLOGY

# Technical data sheet · LUTZE DRIVEFLEX® 3 SYMMETRICAL 1000 V with Three Symmetrical Grounds and UL 1 kV Voltage Rating

---

## Symbols



29.01.2017 – Subject to technical modification

Part-No. A22025003

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk