

# 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	DR 3 XLPE (C) PVC (3x250MCM+3xAWG6)
	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>
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15.08.2018 – Subject to technical modification

Part-No. A22025003

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SYSTEMATIC TECHNOLOGY

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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>
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## Construction

Description	DRIVEFLEX <sup>®</sup> 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3xMCM250+3xAWG6)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	51.6 mm
Outer Ø	2.032 inches
Weight	3815 Lbs/Mft
Cu-Index	2851 Lbs/Mft

### Element 1

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

### Element 2

Element construction	AWG6/3C
Conductor construction	206 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

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	7.5xD

## Element 1

Element construction	250MCM/3C
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## Element 2

Element construction	AWG6/3C
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## 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
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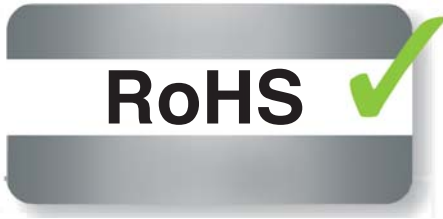


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## Symbols



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