

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

Identification	Type	VFD XLPE 3 (C) PVC (3×500MCM+3×AWG4)
	Part-No.	A22050003

Use/Application/Characteristics

Application	<ul style="list-style-type: none">• Shielded VFD and Motor cable to connect power from drives to motors• Three insulated symmetrical grounds design helps to reduce stray currents• Cable design for harsh industrial environments and operating conditions with high noise levels• 1 kV rated XLPE insulation with low capacitance, ideal for applications with high voltage spikes and long cable runs• Compliant with NFPA 79 for wiring of industrial machinery• TC-ER for use with cable trays without conduit, which can reduce material and labor costs• WTTC – wind turbine tray cable rating for use in wind power generation• Dry, damp or wet conditions
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29.01.2017 – Subject to technical modification

Part-No. A22050003

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SYSTEMATIC TECHNOLOGY

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

Description	DRIVEFLEX 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×MCM500+3×AWG4)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	63.6 mm
Outer Ø	2.505 inches
Weight	6803 Lbs/Mft
Cu-Index	5397 Lbs/Mft

Element 1

Element construction	500MCM/3C
Conductor construction	3800 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	AWG4/3C
Conductor construction	322 Litzen
Conductor	AWG conductor CU-wire tin-plated
Conductor category	feindrähtig
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	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	500MCM/3C
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Element 2

Element construction	AWG4/3C
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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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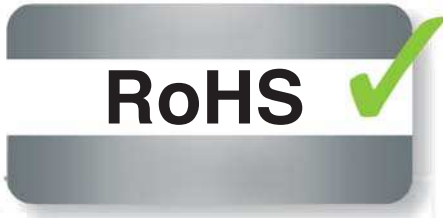
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Symbols



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