

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 (3×1/0+3×AWG8)
	Part-No.	A2201/003

Use/Application/Characteristics

Application

- 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

Characteristics

- 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

29.01.2017 – Subject to technical modification

Part-No. A2201/003

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SYSTEMATIC TECHNOLOGY

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Construction

Description	DRIVEFLEX 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×AWG1/0+3×AWG8)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	35.4 mm
Outer Ø	1.395 inches
Weight	1850 Lbs/Mft
Cu-Index	1348 Lbs/Mft

Element 1

Element construction	1/0/3C
Conductor construction	812 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	AWG8/3C
Conductor construction	128 Litzen
Conductor	AWG conductor CU-wire tin-plated
Conductorcategory	feindrähtig
Conductor marking	green/yellow
Conductor insulation	XLPE 3C XHHW-2 (Ground/PEs)

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

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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	1/0/3C
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Element 2

Element construction	AWG8/3C
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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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Symbols



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