

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 (3x350MCM+3xAWG4)
	Part-No.	A22035003

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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28.11.2017 – Subject to technical modification

Part-No. A22035003

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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	(3xMCM350+3xAWG4)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	59.4 mm
Outer Ø	2.34 inches
Weight	5153 Lbs/Mft
Cu-Index	3993 Lbs/Mft

Element 1

Element construction	350MCM/3C
Conductor construction	2680 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	AWG4/3C
Conductor construction	322 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	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	350MCM/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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Symbols



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