

Technical data sheet - LUTZE DRIVEFLEX® XLPE (C) Servo I PVC with one Control pair and UL/TC-ER/WTTC/CE Approvals



Flexible Composite VFD, Servo &
Motor Supply Cable - Shielded

Identification	Type	VFD XLPE (C) SE I PVC (4xAWG12+(2xAWG16))
	Part-No.	A2171204

Use/Application/Characteristics

Application	<ul style="list-style-type: none"> • Shielded multi-conductor cable for VFD and Motor applications to connect power from drives to motors • Cable design for harsh industrial environments and operating conditions with high noise levels • XLPE thick wall 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	<ul style="list-style-type: none"> • Flexible XLPE conductor design • Non-wicking fillers • Effective dual layer shield for EMC compliance • 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

28.11.2017 – Subject to technical modification

Part-No. A2171204

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SYSTEMATIC TECHNOLOGY

Technical data sheet - LUTZE DRIVEFLEX[®] XLPE (C) Servo I PVC with one Control pair and UL/TC-ER/WTTC/CE Approvals

Construction

Description	DRIVEFLEX XLPE (C) SERVO I PVC
Number of conductors/cross-section	(4AWG12+1x2xAWG16)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	18.3 mm
Outer Ø	0.72 inches
Weight	49.9 kg/100 m
Weight	335 Lbs/Mft
Cu-Index	160 Lbs/Mft

Element 1

Element construction	AWG12/4C
Conductor construction	AWG 12 (65/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	black with white number print green/yellow
Conductor insulation	XLPE RHW-2
Stranding	Strands braided together

Element 2

Element construction	AWG16/1TSP
Conductor construction	AWG 16 (26/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	black with white number print
Conductor insulation	XLPE XHHW-2
Stranding	Conductors stranded in pairs

overall construction

Drain wire	CU-wire tin-plated
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Overall shield	Foil shield Tinned copper wires Braid shield 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	6xD

Element 1

Element construction	AWG12/4C
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Element 2

Element construction	AWG16/1TSP
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Approvals/Standards

Approvals	cULus TC-ER UL DP-1 WTTC Class 1 Div. 2 per NEC Art. 336, 392, 501 cUL TC CIC FT4 UL 1277 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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