

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



Flexible Composite VFD, Servo &  
Motor Supply Cable · Shielded

<b>Identification</b>	Type	VFD XLPE (C)SE II PVC(4×AWG08+2×(2×AWG14))
	Part-No.	A2180804

## Use/Application/Characteristics

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

10.03.2017 – Subject to technical modification

Part-No. A2180804

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

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

## Construction

Description	DRIVEFLEX XLPE (C) SERVO II PVC
Number of conductors/cross-section	(4×AWG8+2×2×14)
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	27.7 mm
Outer Ø	1.09 inches
Weight	116.8 kg/100 m
Weight	778 Lbs/Mft
Cu-Index	364 Lbs/Mft

## Element 1

Element construction	AWG8/4C
Conductor construction	AWG 8 (168/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	feindrähtig
Conductor marking	black with white number print green/yellow
Conductor insulation	XLPE RHW-2
Stranding	Strands braided together

## Element 2

Element construction	AWG14/2TSP
Conductor construction	AWG 14 (41/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	feindrähtig
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
------------	--------------------

10.03.2017 – Subject to technical modification

Part-No. A2180804

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA

Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223

www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

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

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	6×D

### Element 1

Element construction	AWG8/4C
----------------------	---------

### Element 2

Element construction	AWG14/2TSP
----------------------	------------

---

## 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
Oil resistant according to	Oil Res II

---

## General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

---

## Symbols

10.03.2017 – Subject to technical modification

Part-No. A2180804

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

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

---



10.03.2017 – Subject to technical modification

Part-No. A2180804

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk