

# Technical data sheet

## Flexible Composite VFD Cable · shielded

### LUTZE DRIVEFLEX® XLPE (C) 1 TSP PVC With one Control pair for Stationary Applications



#### Identification

Type DR XLPE (C) SE I PVC (4×AWG12+(2×AWG16))  
Part No. [A2171204](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

Application

- Dual-shielded motor supply cable to connect power to 3-phase-motors, VFDs and servo drives
- Cable design for harsh industrial environments and operating conditions with high noise levels
- Thermoset XLPE offering superior overload and short-circuit temperature
- Increased wall thickness insulation type RHW-2, offering lower capacitance and higher impedance making it ideal for applications with high voltage spikes and long cable run
- Compliant with NFPA 79 requirements
- TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp or wet conditions

Properties

- Flexible XLPE conductors
- High insulation resistance
- Low-capacitance cable
- Effective EMC-compatible shielding thanks to 2-layer shield
- Specially formulated jacket for oil resistance and easy strip design
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Sunlight resistant
- Flame-retardant
- Direct burial
- Talc free and silicone free

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### Construction

Description	DRIVEFLEX® XLPE (C) 1 TSP PVC
Number of conductors/cross-section	(4AWG12+1×2×AWG16)
Number of conductors	6
Cross-section, metric	4 mm <sup>2</sup>
Cross-section AWG	AWG 12
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	18.3 mm
Outer Ø	0.72 inch
Weight	49.9 kg/100 m
Weight	335 Lbs/Mft
Cu-Index	160 Lbs/Mft

### Construction Element 1

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

### Construction 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
Overall shield	Foil shield tinned copper wires Braid shield optical cover approx. 80 %
Jacket characteristics	Oil resistant Silicone-free

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### Technical data

Rated voltage $U_N$	600 V 90C UL TC-ER-JP 1000 V Flexible VFD servo cable 90C 1000 V WTTC 90C Cable, 1000 V 105C AWM
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius fixed	6xD

### Technical Data Element 1

Element construction	AWG12/4C
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### Technical Data Element 2

Element construction	AWG16/1TSP
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### Certifications/Standards

Certifications	UL Flexible Motor Supply Cable Flexible VFD Servo Cable TC-ER-JP WTTC UL DP-1 Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 P-07-KA130021-MSHA
UL style	AWM 20886
Conformity	CE RoHS REACH TSCA
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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