

# Technical data sheet

## Flexible VFD Cable XHHW-2 with one Control Pair and UL Approval

### LUTZE DRIVEFLEX® XLPE (C) 1 TSP PVC, Shielded for Stationary Applications



#### Identification

Type DR XLPE (C) 1TSP PVC (4GAWG8+1x2xAWG14)  
Part No. [A1070804](#)

#### 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 insulation offers superior electrical values for VFD applications
- Type XHHW-2 insulation offering smaller ODs for general VFD applications
- 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

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Properties	<ul style="list-style-type: none"><li>• Flexible XLPE conductors</li><li>• Reduced cable diameter</li><li>• High insulation resistance</li><li>• Low capacitance cable</li><li>• Effective dual layer shield for EMC compliance</li><li>• Specially formulated jacket for oil resistance and easy strip design</li><li>• Non-wicking fillers</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Crush impact resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Sunlight resistant</li><li>• Flame retardant</li><li>• Direct burial</li><li>• Talc free and silicone free</li></ul>
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## Construction

Description	DRIVEFLEX® XLPE (C) 1 TSP PVC
Number of conductors/cross-section	(4×AWG8+1×2×AWG14)
Number of conductors	6
Cross-section, metric	10 mm <sup>2</sup>
Cross-section AWG	AWG 8
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	24 mm
Outer Ø	0.945 inch
Weight	605 Lbs/Mft
Cu-Index	314 Lbs/Mft

## Construction Element 1

Element construction	168/30
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 XHHW-2 Wet/Dry

## Construction Element 2

Element construction	41/30
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	black • with white number print
Conductor insulation	XLPE XHHW-2 Wet/Dry
Stranding	Conductors stranded in pairs

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### Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Foil shield
	Braid shield
	Tinned copper wires
	Optical cover approx. 80 %
Jacket characteristics	Oil resistant
	Silicone free

### Technical data

Rated voltage U <sub>N</sub>	600 V 90C UL TC-ER-JP 1000 V Flexible VFD servo cable 90C 1000 V WTTC 90C 1000 V 105C AWM
Temperature range fixed	-40 °C ... +105 °C
Bending radius	6×D

### Technical Data Element 1

Element construction	168/30
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### Technical Data Element 2

Element construction	41/30
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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
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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