

## 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 (4GAWG18+1×2×AWG18)
Part No.	<a href="#">A1071804</a>

#### Product version

Datasheet version	00
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#### Use/Application/Properties

Application	<ul style="list-style-type: none"><li>• Dual-shielded motor supply cable to connect power to 3-phase-motors, VFDs and servo drives</li><li>• Cable design for harsh industrial environments and operating conditions with high noise levels</li><li>• Thermoset XLPE insulation offers superior electrical values for VFD applications</li><li>• Type XHHW-2 insulation offering smaller ODs for general VFD applications</li><li>• Compliant with NFPA 79 requirements</li><li>• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments</li><li>• WTTC – wind turbine tray cable rating for use in wind power generation</li><li>• Dry, damp or wet conditions</li></ul>
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SYSTEMATIC TECHNOLOGY

## Technical data sheet

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

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×AWG18+1×2×AWG18)
Number of conductors	6
Cross-section, metric	1 mm²
Cross-section AWG	AWG 18
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	13.3 mm
Outer Ø	0.525 inch
Weight	156 Lbs/Mft
Cu-Index	66 Lbs/Mft

#### Construction Element 1

Element construction	19/30
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	19/30
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 $U_N$	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	19/30
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#### Technical Data Element 2

Element construction	19/30
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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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