

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 (4GAWG14+1×2×AWG18)
Part No. [A1071404R](#)

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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SYSTEMATIC TECHNOLOGY

Technical data sheet

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Properties	• Flexible XLPE conductors • Reduced cable diameter • High insulation resistance • Low capacitance cable • Effective dual layer shield for EMC compliance • 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	(4×AWG14+1×2×AWG18)
Number of conductors	6
Cross-section, metric	2.5 mm²
Cross-section AWG	AWG 14
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	13 mm
Outer Ø	0.51 inch
Weight	184 Lbs/Mft
Cu-Index	92 Lbs/Mft

Construction Element 1

Element construction	41/30
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 THHN
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	41/30
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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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