

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 (4GAWG12+1×2×AWG18)
Part No. [A1071204R](#)

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	• 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×AWG12+1×2×AWG18)
Number of conductors	6
Cross-section, metric	4 mm²
Cross-section AWG	AWG 12
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	14.9 mm
Outer Ø	0.587 inch
Weight	34.8 kg/100 m
Weight	234 Lbs/Mft
Cu-Index	19 kg/100 m
Cu-Index	128 Lbs/Mft

Construction Element 1

Element construction	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 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

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Conductor insulation	XLPE XHHW-2 THHN
Stranding	Conductors stranded in pairs

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	65/30
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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

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General

Note

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