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×AWG16)
Part No.	A1071404

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

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

Construction

Description	DRIVEFLEX® XLPE (C) 1 TSP PVC

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Number of conductors/cross-section	(4×AWG14+1×2×AWG16)
Number of conductors	6
Cross-section AWG	AWG 14
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	15.2 mm
Outer Ø	0.6 inch
Weight	234 Lbs/Mft
Cu Index	112 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	26/30
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	black • with white number print
Conductor insulation	XLPE XHHW-2 Wet/Dry
Cabling	conductors twisted 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 Cable, 1000 V 105C AWM 1000 V WTTC
Temperature range fixed	-40 °C … +105 °C
Bending radius	6×cable OD

Technical Data Element 1	
Element construction	41/30

Technical Data Element 2	
Element construction	26/30

Approvals/Standards	
Approvals	UL Flexible Motor Supply Cable Flexible VFD Servo Cable cULus TC-ER WTTC UL DP-1 Meets NEC 336,392 Class I and II, Div. 2 501, 502, 505 cUL TC CIC FT4 UL 1277 cURus
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