

Technical data sheet

Flexible Composite VFD Cable with 3 Symmetrical Grounds for Stationary Applications · shielded

LUTZE DRIVEFLEX® XLPE (C) SYMMETRICAL



Identification

Type DR 3 XLPE (C) PVC (3×250MCM+3×AWG6)
Part No. [A22025003](#)

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
 - Three insulated symmetrical ground design helps to reduce stray currents
 - Cable design for harsh industrial environments and operating conditions with high noise levels
 - Thermoset XLPE offering superior overload and short-circuit temperature
 - Type XHHW-2 insulation offering smaller ODs for general VFD applications
 - Compliant with NFPA 79 requirements
 - TC-ER 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
 - Three symmetrical grounds (PE)
 - High insulation resistance
 - Low-capacitance cable
 - Effective EMC-compatible shielding thanks to 2-layer shield
 - 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® 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section (3×MCM250+3×AWG6)

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Number of conductors	6
Cross-section, metric	150 mm ²
Cross-section AWG	250 MCM
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	51.6 mm
Outer Ø	2.032 inch
Weight	3815 Lbs/Mft
Cu Index	2851 Lbs/Mft

Construction Element 1

Element construction	250MCM/3C
Conductor construction	1904 strands
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black • with white number print
Conductor insulation	XLPE XHHW-2

Construction Element 2

Element construction	AWG6/3C
Conductor construction	206 strands
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	green/yellow
Conductor insulation	XLPE 3C XHHW-2 (Ground/PEs)

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Foil shield Aluminium laminate Braid shield tinned copper wires optical cover approx. 80 %
Jacket characteristics	Oil resistant Silicone-free

Technical data

Rated voltage U _N	600 V TC-ER 1000 V Flexible VFD servo cable 90C 1000 V WTTC
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	7.5×cable OD

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Technical Data Element 1

Element construction 250MCM/3C

Technical Data Element 2

Element construction AWG6/3C

Approvals/Standards

Approvals	cULus W TTC TC-ER cUL TC CIC FT4 Class 1 Div. 2 per NEC Art. 336, 392, 501 UL 1277 UL 2277 Wet/Dry P-07-KA130021-MSHA
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