

Technical data sheet

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

LUTZE DRIVEFLEX® XLPE (C) SYMMETRICAL



Identification

Type DR 3 XLPE (C) PVC (3×500MCM+3×AWG4)
Part No. [A22050003](#)

Product version

Datasheet version 01

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 insulation 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

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Properties	• Flexible XLPE conductors • Three symmetrical grounds (PE) • 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® 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×MCM500+3×AWG4)
Number of conductors	6
Cross-section, metric	240 mm²
Cross-section AWG	500 MCM
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	65.8 mm
Outer Ø	2.589 inch
Weight	6803 Lbs/Mft
Cu-Index	5397 Lbs/Mft

Construction Element 1

Element construction	500MCM/03C*
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	AWG4/03C
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	green/yellow
Conductor insulation	XLPE 3C XHHW-2 (Ground/PEs)

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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×D

Technical Data Element 1

Element construction	500MCM/03C*
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Technical Data Element 2

Element construction	AWG4/03C
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Certifications/Standards

Certifications	cULus WTTC TC-ER cUL TC CIC FT4 Meets NEC 336, 392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 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
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PIN assignment

