

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 (3xAWG1+3xAWG8)
Part No. [A2200103](#)

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

Construction

Description	DRIVEFLEX® 3 SYMMETRICAL GROUNDS
Number of conductors/cross-section	(3×AWG1+3×AWG8)
Number of conductors	6
Cross-section, metric	50 mm ²
Cross-section AWG	AWG 1
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	35.2 mm
Outer Ø	1.385 inch
Weight	1600 Lbs/Mft
Cu-Index	1121 Lbs/Mft

Construction Element 1

Element construction	AWG1/03C
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	AWG8/03C
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	AWG1/03C
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Technical Data Element 2

Element construction	AWG8/03C
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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

