

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 (3×2/0+3×AWG8)
Part No. [A2202/003](#)

Product version

Datasheet version 01

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• 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 |
| Properties | <ul style="list-style-type: none">• 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

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

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Number of conductors/cross-section	(3×AWG2/0+3×AWG8)
Number of conductors	6
Cross-section, metric	70 mm ²
Cross-section AWG	2/0
Jacket material	PVC
Jacket color	black RAL 9005
Outer Ø	39.1 mm
Outer Ø	1.54 inch
Weight	2187 Lbs/Mft
Cu Index	1620 Lbs/Mft

Construction Element 1

Element construction	2/0/03C
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)

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 2/0/03C

Technical Data Element 2

Element construction AWG8/03C

Approvals/Standards

Approvals	cULus WTTTC 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

PIN assignment

