

Technical data sheet

Flexible VFD Cable 2kV RHW-2 with 3 Symmetrical Grounds for Stationary Applications · shielded

LUTZE DRIVEFLEX® XLPE (C) 2kV SYMMETRICAL



Identification

Type VFD XLPE 3 (C) PVC (3×AWG4+3×AWG12)
Part No. [A2190403](#)

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
 - 2kV cable design for the most demanding VFD applications
 - Cable design for harsh industrial environments and operating conditions with high noise levels
 - Thermoset XLPE insulation offering superior overload and short-circuit temperature
 - Increased wall thickness insulation type RHW-2, offering lower capacitance and higher impedance making it ideal for applications with high voltage spikes and long cable runs
 - 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

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0 • Fax +49 (0)7151 6053-277(-288)
www.luetze.de • info@luetze.de

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Part No. [A2190403](#) • Datasheet version: 01

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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×AWG4+3×AWG12)
Number of conductors	6
Cross-section, metric	25 mm²
Cross-section AWG	AWG 4
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	28.7 mm
Outer Ø	1.129 inch
Weight	943 Lbs/Mft
Cu-Index	593 Lbs/Mft

Construction Element 1

Element construction	AWG4/03C
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black • with white number print
Conductor insulation	XLPE RHW-2

Construction Element 2

Element construction	AWG12/03C
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire
Conductor marking	green/yellow • green/yellow • green/yellow

Overall construction

Overall stranding	elements stranded together
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Drain wire	CU-wire tin-plated
Overall shield	Foil shield Aluminium laminate Braid shield tinned copper wires
Jacket characteristics	Oil resistant Silicone free

Technical data

Rated voltage U_N	2000 V 90C TC-ER 2000 V Flexible VFD servo cable 90C 1000 V WTTC 90C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	7.5×D

Technical Data Element 1

Element construction	AWG4/03C
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Technical Data Element 2

Element construction	AWG12/03C
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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

