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. <u>A2190403</u>

**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.

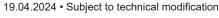
Unit 3, Sandy Hill Park

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



Part No. A2190403 • Datasheet version: 01



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

· Flexible XLPE conductors **Properties** 

- 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

DRIVEFLEX® 3 SYMMETRICAL GROUNDS Description

Number of conductors/cross-section (3×AWG4+3×AWG12)

Number of conductors 6

Cross-section, metric 25 mm<sup>2</sup> Cross-section AWG AWG 4 **PVC** Jacket material

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

black • with white number print

Conductor insulation XLPE

RHW-2

#### **Construction Element 2**

Conductor marking

Element construction AWG12/03C Conductor AWG conductor

CU-wire tin-plated

Conductor category

Conductor marking green/yellow • green/yellow • green/yellow

### **Overall construction**

elements stranded together Overall stranding



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

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<sub>N</sub> 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

**Technical Data Element 2** 

Element construction AWG12/03C

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

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

# PIN assignment

