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×AWG2+3×AWG10)

Part No. <u>A2190203</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.

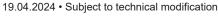
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Part No. A2190203 • Datasheet version: 01



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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×AWG2+3×AWG10)

Number of conductors 6

Cross-section, metric 35 mm²
Cross-section AWG AWG 2
Jacket material PVC

Jacket color black similar to RAL 9005

 Outer Ø
 31.5 mm

 Outer Ø
 1.24 inch

 Weight
 1.294 Lbs/Mft

 Cu-Index
 880 Lbs/Mft

Construction Element 1

Element construction AWG2/03C 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 AWG10/03C

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 AWG2/03C

Technical Data Element 2

Element construction AWG10/03C

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

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

