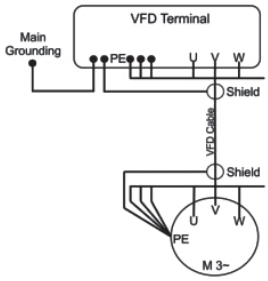
# LUTZE DRIVEFLEX® XLPE (C) 2kV Symmetrical, Shielded

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



### 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
- 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 for use in wind power generation
- Dry, damp or wet conditions

### Characteristics
- Flexible XLPE conductors
- Three symmetrical, insulated grounds (PEs)
- High insulation resistance
- Low capacitance cable
- Effective dual layer shield for EMC compliance
- Oil resistant jacket designed for easy stripping
- 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 and silicone free

### Technical Data

| | |
|---|---|
| Voltage | 2000V 90C TC-ER<br>2000V 90C Flexible VFD Servo Cable<br>1000V 90C WTTC |
| Temperature range | -40°C - +90°C static |
| Bending radius min | 7.5 x cable OD |
| Conductor marking | Black with white numbers and three green/yellow ground |
| Oil resistance | Oil Res II |
| Approvals | UL Type Flexible Motor Supply Cable, Flexible VFD Servo Cable up to 4/0<br>Meets NEC 336, 392<br>Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505<br>UL Types WTTC, TC-ER<br>c(UL), CIC FT4, CE<br>UL 1277, UL 2277<br>P-07-KA130021-MSHA<br>CE, RoHS, REACH, TSCA |

### Construction
- AWG conductor
- Class K flexible fine wire stranded tinned copper conductors for improved electrical characteristics and reduced oxidation
- Thermoset XLPE insulation, Wet/Dry RHW-2 (3C Power + 3C Grounds/PEs)
- Shielded with foil tape, tinned copper braid with ≥80% optical coverage, and drain wire
- Oil resistant PVC jacket
- Black jacket similar to RAL 9005

## WITH THREE SYMMETRICAL GROUNDS
### (3 Power + 3 Protective Earth Grounds)

| Part No. | Description Power Ground | OD / Ø ca. mm | OD / Ø inches | Weight Lbs/Mft | Copper Lbs/Mft |
|---|---|---|---|---|---|
| **A2190603** | AWG6/03C (266 strands)+ AWG12/03C (50 strands) | 26.3 | 1.035 | 804 | 422 |
| **A2190403** | AWG4/03C (420 strands)+ AWG12/03C (50 strands) | 28.7 | 1.129 | 943 | 593 |
| **A2190203** | AWG2/03C (672 strands)+ AWG10/03C (80 strands) | 31.5 | 1.240 | 1,294 | 880 |
| **A2190103** | AWG1/03C (840 strands)+ AWG8/03C (128 strands) | 37.1 | 1.460 | 1,676 | 1,125 |
| **A2191/003** | 1/0/03C (1064 strands)+ AWG8/03C (128 strands) | 39.4 | 1.551 | 1,957 | 1,355 |
| **A2192/003** | 2/0/03C (1344 strands)+ AWG8/03C (128 strands) | 42.4 | 1.669 | 2,294 | 1,628 |
| **A2193/003** | 3/0/03C (1664 strands)+ AWG6/03C (206 strands) | 43.7 | 1.720 | 2,800 | 2,065 |
| **A2194/003** | 4/0/03C (2052 strands)+ AWG6/03C (206 strands) | 49.8 | 1.960 | 3,423 | 2,465 |
| **A21925003** | 250MCM/03C* (2432 strands)+ AWG6/03C (206 strands) | 54.9 | 2.161 | 3,997 | 2,862 |
| **A21935003** | 350MCM/03C* (3458 strands)+ AWG4/03C (322 strands) | 60.7 | 2.389 | 5,310 | 4,002 |
| **A21950003** | 500MCM/03C* (4864 strands)+ AWG4/03C (322 strands) | 67.6 | 2.661 | 6,928 | 5,402 |
| **A21975003** | 750MCM/03C* (7372 strands)+ AWG2/03C (672 strands) | 79.5 | 3.129 | 10,366 | 8,122 |

*1000V WTTC, 2000V TC-ER only

2000V 90C Flexible VFD Servo Cable for the most demanding VFD applications requiring optimal cable performance with lowest capacitance and highest impedance.

Specifications are subject to change without prior notice