

# LUTZE DRIVEFLEX® 3 Symmetrical Grounds, Shielded

## Flexible Composite VFD & Motor Supply Cable with Three Symmetrical Grounds and UL 1kV Voltage Rating



### Application

- Shielded VFD and Servo-Motor cable to connect power from drives to AC motors
- Three insulated symmetrical grounds design helps to reduce stray currents
- Cable design for harsh industrial environments and operating conditions with high noise levels
- 1 kV rated XLPE insulation with low capacitance, ideal for applications with **high voltage spikes and long cable runs**
- Compliant with **NFPA 79** for wiring of industrial machinery
- **TC-ER** for use with cable trays **without conduit**, which can reduce material and labor costs
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp or wet conditions

### Characteristics

- Flexible XLPE conductors
- Three symmetrical, insulated grounds (PEs)
- Non-wicking fillers
- Effective dual layer shield for best EMC results
- Specially formulated jacket for oil resistance and easy strip design
- Low capacitance cable
- Sunlight resistant
- Direct burial
- Talc free and Silicone free

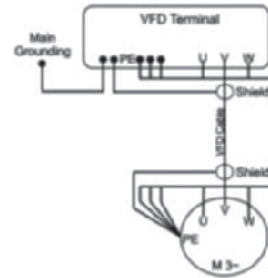
### Technical Data

|                        |  |
|------------------------|--|
| Voltage                | 600V UL TC-ER<br>1000V Flexible VFD Servo Cable 90C<br>1000V WTTC  |
| Temperature            | -40°C - +90°C static   |
| Minimum bending radius | 7.5 x cable OD fixed   |
| Conductor marking      | Black with white numbers and three green/yellow ground   |
| Approvals              | UL Type "Flexible Motor Supply Cable (Flexible VFD Servo Cable)" (AWG6 to 4/0 only)<br>UL Types WTTC, TC-ER<br>c(UL) TC<br>CIC FT4<br>CE<br>Class I, II Div. 2 per NEC<br>Art. 336, 392, 501, 502<br>UL 1277, UL2277<br>Oil res II<br>Wet/Dry<br>P-07-KA130021-MSHA<br>RoHS<br>REACH |

### Construction

- AWG conductor
- Flexible fine wire stranded tinned copper conductors for improved electrical characteristics and reduced oxidation
- XLPE insulation, Wet/Dry XHHW-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 RAL 9005

Specifications are subject to change without prior notice



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

| Part No.         | Description<br>Power<br>Ground                        | OD / Ø<br>ca. mm | OD / Ø<br>inches | Weight<br>Lbs/Mft | Copper<br>Lbs/Mft |
|------------------|---|------------------|------------------|-------------------|-------------------|
| <b>A2200603</b>  | AWG6/03C (206 strands)+<br>AWG12/03C (50 strands)     | 23.6             | 0.930            | 677               | 432               |
| <b>A2200403</b>  | AWG4/03C (322 strands)+<br>AWG12/03C (50 strands)     | 25.8             | 1.015            | 872               | 586               |
| <b>A2200203</b>  | AWG2/03C (511 strands)+<br>AWG10/03C (80 strands)     | 29.3             | 1.155            | 1,230             | 875               |
| <b>A2200103</b>  | AWG1/03C (644 strands)+<br>AWG8/03C (128 strands)     | 33.9             | 1.335            | 1,600             | 1,121             |
| <b>A2201/003</b> | 1/0/03C (812 strands)+<br>AWG8/03C (128 strands)      | 35.4             | 1.395            | 1,850             | 1,348             |
| <b>A2202/003</b> | 2/0/03C (1022 strands)+<br>AWG8/03C (128 strands)     | 38.1             | 1.500            | 2,187             | 1,620             |
| <b>A2203/003</b> | 3/0/03C (1288 strands)+<br>AWG6/03C (206 strands)     | 41.1             | 1.620            | 2,705             | 2,059             |
| <b>A2204/003</b> | 4/0/03C (1638 strands)+<br>AWG6/03C (206 strands)     | 47.4             | 1.865            | 3,336             | 2,461             |
| <b>A22025003</b> | 250MCM/03C* (1904 strands)+<br>AWG6/03C (206 strands) | 50.3             | 1.980            | 3,815             | 2,851             |
| <b>A22035003</b> | 350MCM/03C* (2680 strands)+<br>AWG4/03C (322 strands) | 56.4             | 2.220            | 5,153             | 3,993             |
| <b>A22050003</b> | 500MCM/03C* (3800 strands)+<br>AWG4/03C (322 strands) | 63.6             | 2.505            | 6,803             | 5,397             |

\*1000V WTTC, 600V TC-ER only

"Three symmetrical grounds design can help to reduce shaft voltage and bearing currents. This design is recommended for larger motors 40HP or up".

