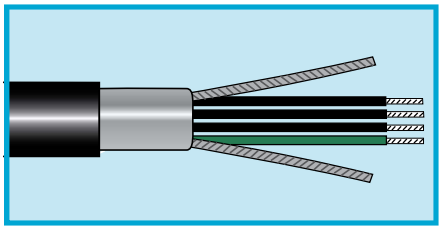
# Series V-Flex VFD Cable

## Enhanced Design and TPE Jackets for Flexibility
## 600/1000 V Shielded

INDUSTRIAL™ SERIES From AlphaWire



**UL RHW-2 (16 – 2 AWG)**
**UL XHHW-2**
**UL TC-ER**
**UL 1000V Flexible Motor Supply Cable**
**CSA CIC/TC**
**CSA FT4**
**CE LVD 2006/95/EC**
**Pennsylvania MSHA**

### Operating Temperature

- -40°C to +90°C

### Conductor Color Coding

- 1 green or green/yellow and 3 black, numbered

### Materials

- Stranded tinned copper conductors
- Stranded tinned copper ground wires
- Cross-linked polyethylene insulation (XLPE)
- Shielding
  16 – 4 AWG:
  Aluminum/polyester/aluminum foil and tinned copper braid with 85% coverage
  2 – 4/0 AWG:
  Double-layer copper tape
- Thermoplastic elastomer jacket

### Voltage

- 600 V (UL TC-ER)
- 1000 V (UL Motor Supply)

### Features

- Oil Res. I/II
- UL Sunlight Resistant
- CSA -40°C Cold Bend
- 5x bend radius
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, made to order

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321V: Low-shrink-temperature, flame-retardant cross-linked polyolefin

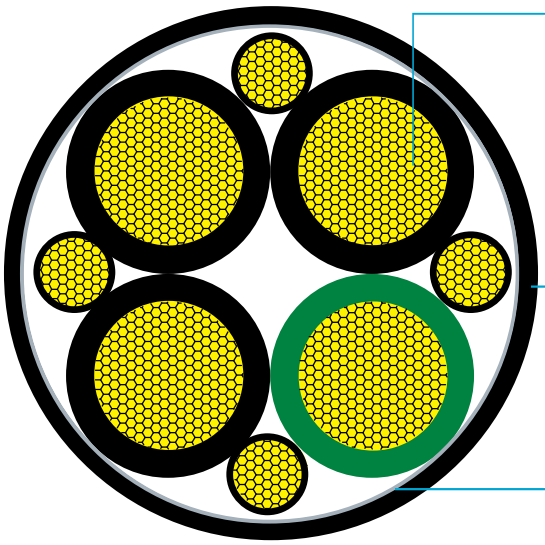
**Four-Conductor VFD Cables**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Core OD | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **VF16016** | 16 | 1.32 | 26/30 | 26 x 0.254 | 0.046 | 1.17 | 0.375 | 9.53 | 0.065 | 1.65 | 0.545 | 13.84 |
| **VF16014** | 14 | 2.08 | 41/30 | 41 x 0.254 | 0.046 | 1.17 | 0.414 | 10.52 | 0.065 | 1.65 | 0.584 | 14.83 |
| **VF16012** | 12 | 3.29 | 65/30 | 65 x 0.254 | 0.046 | 1.17 | 0.461 | 11.71 | 0.065 | 1.65 | 0.631 | 16.03 |
| **VF16010** | 10 | 5.32 | 105/30 | 105 x 0.254 | 0.047 | 1.19 | 0.540 | 13.72 | 0.085 | 2.16 | 0.75 | 19.05 |
| **VF16008** | 8 | 8.61 | 133/29 | 133 x 0.287 | 0.061 | 1.55 | 0.701 | 17.81 | 0.086 | 2.18 | 0.92 | 23.37 |
| **VF16006** | 6 | 13.60 | 133/27 | 133 x 0.361 | 0.061 | 1.55 | 0.798 | 20.27 | 0.086 | 2.18 | 1.017 | 25.83 |
| **VF16004** | 4 | 21.60 | 133/25 | 133 x 0.455 | 0.061 | 1.55 | 0.934 | 23.72 | 0.086 | 2.18 | 1.157 | 29.39 |

### Designed to Excel in VFD Systems

Series V and V-Flex cables give you the features you need for high-performance VFD applications.

Pressure-extruded cross-linked polyethylene insulation (XLPE) and symmetrical cable geometry combine to provide the electrical characteristics required for precise control and long life.



**XLPE Insulation**
Lower Capacitance
Excellent Corona Resistance
Longer Transmission Distances

**Round Geometry**
Enhances Uniform Electrical Properties

Allows IP67/NEMA 6 Liquid-Tight Sealing

**Double Shielding**
EMI Protection

UL LISTED CSA CE RoHS Compliant