

**Part Number:** 29532

1000V UL Flex Motor VFD, (3) 4/0 AWG (7x19x18)  
TC+Grd, XLPE/PVC, Foil Shld, TC-ER



## Product Description

Three 4/0 AWG stranded (7x19x18) tinned copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two spiral copper tape shields (100% Coverage), PVC jacket.

## Product Specifications

### Technical Specifications

|                               |   |
|-------------------------------|---|
| <b>Suitable Applications:</b> | AC Motor drives, VFD, Variable Frequency drives |
|-------------------------------|---|

### Construction and Dimensions

#### Conductor:

| Element     | AWG   | Stranding | Material           | No. of Conductors |
|-------------|-------|-----------|--------------------|-------------------|
|             | 36617 | 7x19x18   | TC - Tinned Copper | 3                 |
| Ground Wire | 2     | 7x19x23   | BC - Bare Copper   |                   |

|                                    |   |
|------------------------------------|---|
| <b>Total Number of Conductors:</b> | 3 |
|------------------------------------|---|

#### Insulation:

| Material                      | Nominal Wall Thickness |
|-------------------------------|------------------------|
| XLP - Cross-Linked Polyolefin | 0.057 in               |

#### Color Chart 1:

| Number | Color                |
|--------|----------------------|
| 1      | Black and Numbered 1 |
| 2      | Black and Numbered 2 |
| 3      | Black and Numbered 3 |

## Stranding:

| Lay Length |
|------------|
| Y mm       |

## Outersheild 1:

| Type | Description | Layer | Material      | Coverage [%] |
|------|-------------|-------|---------------|--------------|
| Tape | .002"       | 1     | Spiral Copper | 100 %        |
| Tape | .002"       | 2     | Spiral Copper | 100 %        |

## Outerjacket 1:

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.652 in         | 0.083 in               |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 0.05 Ohm/1000ft       |

### Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 50 pF/ft                                | 90 pF/ft  |

### Current:

| Max. Recommended Current [A]            |
|---|
| 260 Amps per conductor @ 30°C (per NEC) |

### Inductance:

| Nominal Inductance |
|--------------------|
| 0.136 µH/ft        |

### Voltage:

| Description      | UL Voltage Rating                        | Voltage Rating [V] |
|------------------|--|--------------------|
| CSA AWM I/II A/B | 1000 V RMS (Flexible Motor Supply Cable) | 1000 V RMS         |
|                  | 600 V RMS (NEC Type TC)                  |                    |

## Use

|                               |     |
|-------------------------------|-----|
| Suitability - Oil Resistance: | Yes |
| Suitability - Burial:         | Yes |
| Suitability - Indoor:         | Yes |

|                                    |          |
|------------------------------------|----------|
| Suitability - Outdoor:             | Yes      |
| Suitability - Sunlight Resistance: | Yes      |
| Max Recommended Pulling Tension:   | 5622 lbs |

## Safety

|                    |                   |
|--------------------|-------------------|
| CSA Flammability:  | FT4               |
| IEEE Flammability: | 1202              |
| UL Flammability:   | UL1685 UL Loading |

## Temperature Range

|                 |                  |
|-----------------|------------------|
| Dry Temp Range: | -40 °C To +90 °C |
| Wet Temp Range: | -40 °C To +90 °C |

## Mechanical Characteristics

|                             |         |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 16.5 in |
|-----------------------------|---------|

## Part Number

## Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CSA AWM Specification:            | CSA Specification                |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| NEC Articles:                     | NEC Articles                     |
| NEC/(UL) Specification:           | NEC/(UL) Specification           |
| Other Specification:              | Other Specification              |
| PMSHA Specification:              | PMSHA Specification              |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |
| EU CE Mark:                       | EU CE Mark                       |

## History

## Product Variants

| Part Number   | Color | Put-Up Type | Length |
|---------------|-------|-------------|--------|
| 29532 0101500 | BLACK | Reel        | 1500 m |
| 29532 010250  | BLACK | Reel        | 250 ft |
| 29532 010500  | BLACK | Reel        | 500 ft |

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