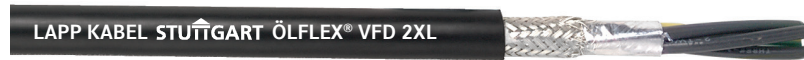


# ÖLFLEX® VFD 2XL

Flexible VFD Cable; 600V/1000V/2000V; UL & c(UL) TC-ER Approval



ÖLFLEX® VFD 2XL is a robust oil- and UV-resistant shielded motor cable for VFD drives. The XLPE (plus) insulation with enhanced electrical properties can withstand twice the dielectric voltage test, provides extended performance, and is suitable for 2kV applications.

## Recommended Applications

VFD drive and motor connections; pumps; compressors; conveyors; elevators; extruders; presses; HVAC; any on/off, slow down/speed up applications using VFD drives and motors

## Approvals



| Cable Attributes |       | page 640 |       |
|------------------|-------|----------|-------|
| OIL              | OR-03 | FLAME    | FR-03 |
| MOTION           | FL-01 | MECH.    | MP-03 |

| Complete the Installation  |                            |
|----------------------------|----------------------------|
| SKINTOP® MS-SC<br>page 516 | EPIC® ULTRA HB<br>page 397 |

## Construction

**Conductors:** Finely stranded tinned copper

**Insulation:** XLPE (plus)

**Shielding:** Barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)

**Jacket:** Specially formulated thermoplastic elastomer (TPE); black

## Application Advantage

- One cable for applications up to 2kV
- Low capacitance design
- Industrial grade phthalate-free jacket designed for harsh environments
- UL TC-ER & c(UL) CIC/TC approved
- Reduces space and weight in tray
- No conduit required due to TC-ER rating

## Technical Data

**Minimum Bend Radius:** 7.5 x cable diameter

**Temperature Range:**  
 - UL/CSA TC: -25°C to +90°C  
 - for stationary use: -40°C to +105°C  
 - for flexible use: -25°C to +105°C

**Nominal Voltage:**  
 - UL TC: 600V/2000V  
 - UL Flexible Motor Supply: 1000V  
 - c(UL) CIC/TC: 600V  
 - cRU AWM: 1000V

**Test Voltage:** 6000V

**Conductor Stranding:**  
 - 16 - 6 AWG: Class 5 fine wire  
 - 4 - 2 AWG: Class K fine wire

**Color Code:** Black with white numbers, plus green/yellow ground

**Approvals:**  
 UL: TC-ER per UL 1277  
 Attributes: UL Oil Res I/II  
 90°C Wet or Dry  
 -40°C Cold Bend; -25°C Cold Impact  
 Sunlight Resistant  
 Direct Burial  
 NFPA 79 2015  
 NEC: Class 1 Division 2 per NEC Article 501  
 Canada: c(UL) CIC/TC FT4  
 cRU AWM I/II A/B FT4  
 Additional: CE (50V - 1kV) & RoHS

| Part Number                        | Number of Conductors (incl. ground) | Nominal Outer Diameter |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINTOP® MS-SC PG Thread | SKINTOP® MS-M BRUSH Metric Thread |
|------------------------------------|-------------------------------------|------------------------|------|-------------------------|--------------------------|--------------------------|-----------------------------------|
| (in)                               | (mm)                                |                        |      |                         |                          |                          |                                   |
| <b>16 AWG (1.5 mm<sup>2</sup>)</b> |                                     |                        |      |                         |                          |                          |                                   |
| 700700                             | 4                                   | 0.509                  | 12.9 | 70                      | 160                      | 53112240                 | 53112676                          |
| <b>14 AWG (2.5 mm<sup>2</sup>)</b> |                                     |                        |      |                         |                          |                          |                                   |
| 700701                             | 4                                   | 0.582                  | 14.8 | 100                     | 196                      | 53112250                 | 53112676                          |
| <b>12 AWG (4 mm<sup>2</sup>)</b>   |                                     |                        |      |                         |                          |                          |                                   |
| 700702                             | 4                                   | 0.656                  | 16.7 | 144                     | 258                      | 53112250                 | 53112677                          |
| <b>10 AWG (6 mm<sup>2</sup>)</b>   |                                     |                        |      |                         |                          |                          |                                   |
| 700703                             | 4                                   | 0.707                  | 18.0 | 199                     | 320                      | 53112260                 | 53112677                          |
| <b>8 AWG (10 mm<sup>2</sup>)</b>   |                                     |                        |      |                         |                          |                          |                                   |
| 700704                             | 4                                   | 0.887                  | 22.5 | 298                     | 575                      | 53112260                 | 53112678                          |
| <b>6 AWG (16 mm<sup>2</sup>)</b>   |                                     |                        |      |                         |                          |                          |                                   |
| 700705                             | 4                                   | 1.022                  | 25.9 | 518                     | 885                      | 53112270                 | 53112678                          |
| <b>4 AWG (21 mm<sup>2</sup>)</b>   |                                     |                        |      |                         |                          |                          |                                   |
| 700706                             | 4                                   | 1.158                  | 29.4 | 642                     | 1055                     | 53112270                 | 53112679                          |
| <b>2 AWG (33.7 mm<sup>2</sup>)</b> |                                     |                        |      |                         |                          |                          |                                   |
| 700707                             | 4                                   | 1.332                  | 33.8 | 980                     | 1460                     | —                        | 53112679                          |

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.  
 If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.  
 For current information go to our website.