

# 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; on/off, slow down/speed up applications

## Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	FL-01	MECH.	MP-03

## Construction

**Conductors:** finely stranded tinned copper

**Insulation:** XLPE (plus)

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

**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

## Complete the installation



## 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  
 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 in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
<b>16 AWG (1.5 mm²)</b>						
700700	4 + drain	0.509	12.9	70	160	53112240
<b>14 AWG (2.5 mm²)</b>						
700701	4 + drain	0.582	14.8	100	196	53112250
<b>12 AWG (4 mm²)</b>						
700702	4 + drain	0.656	16.7	144	258	53112250
<b>10 AWG (6 mm²)</b>						
700703	4 + drain	0.707	18.0	199	320	53112260

Part number	Number of conductors incl. ground	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
<b>8 AWG (10 mm²)</b>						
700704	4 + drain	0.887	22.5	298	575	53112260
<b>6 AWG (16 mm²)</b>						
700705	4	1.022	25.9	518	885	53112270
<b>4 AWG (21 mm²)</b>						
700706	4	1.158	29.4	642	1055	53112270
<b>2 AWG (33.7 mm²)</b>						
700707	4	1.332	33.8	980	1460	53112679