

# ÖLFLEX® VFD 1XL

Flexible VFD cable; 600V/1000V; UL & c(UL) TC-ER approval



ÖLFLEX® VFD 1XL is a robust oil- and UV-resistant shielded motor cable for VFD drives. Enhanced electrical properties of XLPE insulation provide problem-free performance where precision control is critical. The new leaner design enables reduced cable diameters and increases flexibility. UL TC-ER rating allows for installation without conduit.

## 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 <=>	
OIL	OR-03	FLAME	FR-03
MOTION	CF-01*	MECH.	MP-03

## Construction

**Conductors:** tinned copper fine wire

**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

- Low capacitance design
- UL TC-ER & c(UL) CIC/TC approved
- Industrial grade phthalate-free jacket design for harsh environments
- Reduces space and weight in tray
- No conduit required due to TC-ER rating
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

Complete the installation	
SKINTOP® MS-M BRUSH page 725	EPIC® ULTRA HB page 407

## Technical data

<p> <b>Minimum bend radius:</b> for continuous flexing: 15 x OD for installation: 7.5 x OD</p> <p> <b>Temperature range:</b> - UL/CSA: -25°C to +90°C - for stationary use: -40°C to +90°C - for flexible use: -25°C to +90°C</p> <p> <b>Nominal voltage:</b> - UL TC: 600V - UL Flexible Motor Supply: 1000V - UL/CSA AWM: 1000V</p> <p> <b>Test voltage:</b> - 16 AWG - 10 AWG: 3000V - 8 AWG - 4 AWG: 3500V - 2 AWG: 4000V</p> <p> <b>Conductor stranding:</b> - 16 AWG - 2 AWG Class K</p>	<p> <b>Color code:</b> black with white numbers, plus green/yellow ground</p> <p> <b>Approvals:</b> UL: TC-ER per UL 1277 Flexible Motor Supply Cable per UL 2277 AWM 22022 per UL 758 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 FT4 cRU AWM II A/B FT4 Additional: RoHS II Meets XHHW-2 performance requirements per UL 44 *UL Verified ID A522492: Continuous Flex Test Method Verified</p>
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Part number	Number of conductors incl. ground	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC metric thread	SKINTOP® MS-M BRUSH metric thread
<b>16 AWG (1.5 mm²)</b>						
701700	4 + drain	0.374	9.5	57.5	108	53112630
<b>14 AWG (2.5 mm²)</b>						
701701	4 + drain	0.410	10.4	81.8	137	53112630
<b>12 AWG (4 mm²)</b>						
701702	4 + drain	0.464	11.8	121.7	188	53112640
<b>10 AWG (6 mm²)</b>						
701703	4 + drain	0.504	12.8	184.1	268	53112640

Part number	Number of conductors incl. ground	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC metric thread	SKINTOP® MS-M BRUSH metric thread
<b>8 AWG (10 mm²)</b>						
701704	4 + drain	0.706	17.9	301.9	448	53112650
<b>6 AWG (16 mm²)</b>						
701705	4 + drain	0.915	23.2	440.7	687	53110660
<b>4 AWG (21 mm²)</b>						
701706	4 + drain	1.051	26.7	633.5	969	53112660
<b>2 AWG (33.7 mm²)</b>						
701707	4 + drain	1.223	31.1	995.5	1410	53112670