

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 648	
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 524		EPIC® ULTRA HB page 404
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Technical data

Minimum bend radius:		Color code:	black with white numbers, plus green/yellow ground
for continuous flexing:	15 x OD		
for installation:	7.5 x OD		
Temperature range:		Approvals:	UL: TC-ER per UL 1277 Flexible Motor Supply Cable per UL 2277 AWM 22022 per UL 758
- UL/CSA:	-25°C to +90°C	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
- for stationary use:	-40°C to +90°C	NEC:	Class 1 Division 2 per NEC Article 501
- for flexible use:	-25°C to +90°C	Canada:	c(UL) CIC FT4 cRU AWM II A/B FT4
Nominal voltage:		Additional:	RoHS II Meets XHHW-2 performance requirements per UL 44
- UL TC:	600V		
- UL Flexible Motor Supply:	1000V		
- UL/CSA AWM:	1000V		
Test voltage:		*UL Verified ID A522492:	Continuous Flex Test Method Verified
- 16 AWG - 10 AWG:	3000V		
- 8 AWG - 4 AWG:	3500V		
- 2 AWG:	4000V		
Conductor stranding:			
- 16 AWG - 2 AWG	Class K		

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
16 AWG (1.3 mm²)						
701700	4 + drain	0.374	9.5	57.5	108	53112630
14 AWG (2.1 mm²)						
701701	4 + drain	0.410	10.4	81.8	137	53112630
12 AWG (3.3 mm²)						
701702	4 + drain	0.464	11.8	121.7	188	53112640
10 AWG (5.3 mm²)						
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
8 AWG (8.5 mm²)						
701704	4 + drain	0.706	17.9	301.9	448	53112650
6 AWG (13.5 mm²)						
701705	4 + drain	0.915	23.2	440.7	687	53110660
4 AWG (21.0 mm²)						
701706	4 + drain	1.051	26.7	633.5	969	53112660
2 AWG (33.7 mm²)						
701707	4 + drain	1.223	31.1	995.5	1410	53112670

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