

ÖLFLEX® VFD 1XL with Signal

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

LAPP KABEL STUTTGART ÖLFLEX® VFD 1XL with Signal



ÖLFLEX® VFD 1XL w/Signal 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	FL-02	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

- One cable for applications
- Low capacitance design
- UL TC-ER & c(UL) CIC 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 407

Technical data

<p> Minimum bend radius: for installation: 7.5 x OD</p> <p> Temperature range: - 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> Nominal voltage: - UL TC: 600V - UL Flexible Motor Supply: 1000V - UL/CSA AWM: 1000V</p> <p> Test voltage: - 18 AWG - 10 AWG: 3000V - 8 AWG - 4 AWG: 3500V - 2 AWG: 4000V</p> <p> Conductor stranding: - 16 AWG - 2 AWG Class K</p>	<p> Color code: black with white numbers, plus green/yellow ground 1-pair: black with white numbers</p> <p> Approvals: 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: NFPA 79 RoHS II Meets XHHW-2 performance requirements per UL 44</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
16 AWG (1.5 mm²)						
701710	4 + (18 AWG)	0.446 11.3	72.1	137	53112630	53112676
14 AWG (2.5 mm²)						
701711	4 + (18 AWG)	0.486 12.3	93.4	166	53112630	53112676
12 AWG (4 mm²)						
701712	4 + (18 AWG)	0.533 13.5	129.1	210	53112640	53112676
10 AWG (6 mm²)						
701713	4 + (18 AWG)	0.593 15.1	179.1	289	53112650	53112677

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 (10 mm²)						
701714	4 + (14 AWG)	0.767 19.5	292.5	448	53112650	53112677
6 AWG (16 mm²)						
701715	4 + (14 AWG)	0.958 24.3	442.9	694	53112660	53112678
4 AWG (21.0 mm²)						
701716	4 + (14 AWG)	1.079 27.4	652.1	976	53112660	53112678
2 AWG (33.7 mm²)						
701717	4 (14 AWG)	1.234 31.3	1008.6	1483	53112670	53112679

ECOLAB® is a registered trademark of Ecolab, Inc. 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.