

# ÖLFLEX® VFD SLIM

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

LAPP KABEL STUTTGART ÖLFLEX® VFD SLIM

ÖLFLEX® VFD SLIM is a reduced-diameter shielded motor cable for VFD drives. It is designed with the LAPP Surge Guard insulation system, which includes a semiconductive layer made to withstand nonlinear power distortions associated with VFD drives and to disperse increases in voltage caused by wave reflection, spikes, in-rush current, and harmonics. It is resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries.

## Recommended applications

VFD drive and motor applications; web presses; HVAC; conveyors; 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:** LAPP Surge Guard insulation system

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

**Jacket:** specially formulated thermoplastic polymer; black

## Application Advantage

- LAPP Surge Guard insulation protection
- UL TC-ER & c(UL) CIC/TC approved
- Double shielded for extra protection
- 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-SC  
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EPIC®  
ULTRA HB  
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## 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/CSA TC: 600V  
 - UL WTTC: 1000V  
 - UL Flexible Motor Supply: 1000V  
 - UL/CSA AWM: 1000V

**Test voltage:** 2000V

**Peak voltage:** 7500V

**Conductor stranding:**  
 - 18-6 AWG: Class 5 fine wire\*  
 - 4-2 AWG: Class K fine wire  
 \* 18 AWG meets only Class 5 cross section and DC resistance

**Color code:** black with white numbers, plus green/yellow ground

**Approvals:**

UL: TC-ER per UL 1277  
 MTW per UL 1063  
 WTTC per UL 2277  
 AWM 20886

Attributes: UL Oil Res I/II  
 75°C wet; 90°C dry  
 -40°C cold bend; -25° cold impact  
 sunlight resistant  
 Submersible pump (14 AWG & larger)  
 direct burial  
 NFPA 79

NEC: Class 1 Division 2 per NEC Article 501  
 Canada: c(UL) CIC/TC FT4  
 CSA AWM I/II A/B 1000V FT4

Additional: MSHA P-07KA050013-MSHA  
 CE & 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>18 AWG (1 mm²)</b>						
761804	4	0.394	10.0	53	112	53112230
<b>16 AWG (1.5 mm²)</b>						
761604	4 + drain	0.465	11.8	73	154	53112240
<b>14 AWG (2.5 mm²)</b>						
761404	4	0.514	13.1	100	194	53112240
<b>12 AWG (4 mm²)</b>						
761204	4	0.583	14.8	139	254	53112250
<b>10 AWG (6 mm²)</b>						
761004	4	0.697	17.7	195	346	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>						
760804	4	0.829	21.1	326	596	53112260
<b>6 AWG (16 mm²)</b>						
760604	4	1.002	25.5	494	785	53112270
<b>4 AWG (21 mm²)</b>						
760404	4	1.186	30.1	648	965	53112270
<b>2 AWG (33.7 mm²)</b>						
760204	4	1.395	35.4	985	1339	53112680

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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.

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