

# ÖLFLEX® FD VFD

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



ÖLFLEX® FD VFD is a shielded continuous flex motor supply cable. 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 in industrial applications. It is resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries. For bending cycles and operation parameters, see [www.lappusa.com/cf-rating](http://www.lappusa.com/cf-rating)

## Recommended applications

VFD drives and motor connections in continuous flex applications; plastic extrusion; on/off, slow down/speed up applications

## Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	CF-02*	MECH.	MP-03

## Construction

**Conductors:** finely stranded bare 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

- Continuous flex rated for cable chain applications
- Double-shielded for extra protection
- UL TC-ER & c(UL) CIC/TC approval
- 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 page 522		EPIC® ULTRA HB page 404
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## Technical data

<b>Minimum bend radius:</b> - for flexible use: 5 x cable diameter - for continuous flexing: 7.5 x cable diameter	<b>Color code:</b> black with white numbers, plus green/yellow ground
<b>Temperature range:</b> - for continuous flexing: -5°C to +90°C - for stationary use: -40°C to +105°C - UL/CSA: -25°C to +90°C	<b>Approvals:</b> UL: TC-ER per UL 1277 MTW per UL 1063 WTTCC per UL 2277 AWM 20886 Attributes: UL Oil Res I/II 75°C wet; 90°C 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 CSA AWM I/II A/B 1000V FT4 Additional: CE & RoHS *UL Verified ID A522492: Continuous Flex Test Method Verified
<b>Nominal voltage:</b> - UL/CSA TC: 600V - UL WTTCC: 1000V - UL Flexible Motor Supply: 1000V - UL/CSA AWM: 1000V	
<b>Test voltage:</b> 2000V	
<b>Peak voltage:</b> 7500V	
<b>Conductor stranding:</b> Class M fine wire	

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>14 AWG (2.5 mm²)</b>						
771404	4	0.500	12.7	84	133	53112240 53112676
<b>12 AWG (4 mm²)</b>						
771204	4	0.575	14.6	122	180	53112250 53112676

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>10 AWG (6 mm²)</b>						
771004	4	0.690	17.5	180	271	53112260 53112677

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