

ÖLFLEX® VFD SLIM

Reduced-Diameter VFD Cable; 600V/1000V; UL & c(UL) TC-ER Approval



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.

Recommended Applications

VFD drive and motor applications; web presses; HVAC; conveyors; any on/off, slow down/speed up applications using VFD drives and motors

Approvals



Cable Attributes		page 640	
OIL	OR-03	FLAME	FR-03
MOTION	FL-01	MECH.	MP-03

Complete the Installation	
SKINTOP® MS-SC page 516	EPIC® ULTRA HB page 397

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

Technical Data

Minimum Bend Radius:	7.5 x cable diameter	Color Code:	Black with white numbers, plus green/yellow ground
Temperature Range:	-25°C to +90°C - for stationary use: -40°C to +105°C - for flexible use: -25°C to +105°C	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
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		

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	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
18 AWG (1.00 mm²)							8 AWG (10 mm²)						
761804	4	0.394 10.0	53	112	53112230	—	760804	4	0.829 21.1	326	596	53112260	53112678
16 AWG (1.5 mm²)							6 AWG (16 mm²)						
761604	4 + drain	0.465 11.8	73	154	53112240	53112676	760604	4	1.002 25.5	494	785	53112270	53112678
14 AWG (2.5 mm²)							4 AWG (21 mm²)						
761404	4	0.514 13.1	100	194	53112240	53112676	760404	4	1.186 30.1	648	965	53112270	53112679
12 AWG (4 mm²)							2 AWG (33.7 mm²)						
761204	4	0.583 14.8	139	254	53112250	53112676	760204	4	1.395 35.4	985	1339	—	53112680
10 AWG (6 mm²)													
761004	4	0.697 17.7	195	346	53112260	53112677							

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