

ÖLFLEX® VFD SLIM

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



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

Cable Attributes, see page 659			
OR-03 OIL	FR-03 FLAME	FL-01 MOTION	MP-03 MECHANICAL

Similar Cables
• ÖLFLEX® VFD XL

Use our VFD Cable Selection Guide, page 679

Complete the Installation			
SKINTOP® MS-SC: page 528	SKINTOP® MS-M BRUSH: page 530		

Technical Data

Minimum Bend Radius: 7.5 x cable diameter	Color Code: Black with white numbers, plus green/yellow ground
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	Approvals: UL: TC-ER per UL 1277 MTW per UL 1063 WTTTC 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 and larger) Direct Burial NFPA 79 2015 NEC: Class 1 Division 2 per NEC Articles 336, 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 WTTTC: 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 the Class 5 cross section and DC resistance

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	SKINTOP® MS-M BRUSH	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	SKINTOP® MS-M BRUSH
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	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							

* 16 AWG cable has a drain wire.

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.