

ÖLFLEX® VFD Slim

Reduced-Diameter VFD Cable with "Lapp Surge Guard"

UL & CSA TC Approval



ÖLFLEX® VFD Slim is a reduced-diameter shielded motor cable for VFD Drives. It is designed with "Lapp Surge Guard" semi-conductive material to hold up to nonlinear power distortions associated with VFD drives. This special material smooths out the stranded copper and disperses increases in voltage caused by wave reflection, harmonics, in-rush current, and spikes to prevent conductor and cable failure.

Recommended Applications:

VFD drive and motor connections; web presses; HVAC; conveyors; any on/off applications using a VFD drive and motor

Application Advantage:

- Industrial grade PVC jacket passes Oil Res I & II
- UL TC-ER & c(UL)CIC/TC approved
- Corona inception voltage is 2900 V
- Double shielded for extra protection
- Conforms to NFPA 79 2012

ÖLFLEX® VFD Slim Construction:

Finely stranded tinned copper conductors; specially formulated "Lapp Surge Guard" insulation; barrier tape; 100% shielding with foil tape and tinned copper braid (85% coverage); specially formulated PVC black jacket.

LAPP KABEL STUTTGART ÖLFLEX® VFD SLIM (UL) TYPE TC-ER 90°C 600V c(UL) CIC/TC FT4 CSA AWM CE RoHS



Cable Attributes, See Page 653

	Oil Resistance: OR-03		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

	VFD Selection Guide: Page		EPIC® Connectors: Page 251
	SKINTOP® BRUSH: Page 506		SKINTOP® MS-SCL: Page 504

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: 600 V
- TC Wind Turbine (WTTC): 1000 V

 **Conductor Stranding:**
- 18-6 AWG: Class 5 Fine Wire
- 4-2 AWG: Class K Fine Wire

 **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
- Submersible Pump (14 AWG & larger)
- Attributes: - UL Oil Res I/II
- 75°C Wet; 90°C Dry
- -40°C Cold Bend; -25°C Cold Impact
- Sunlight Resistant
- Direct Burial
- NEC: - Class 1 Division 2 per NEC Article 501
- Canada: - c(UL) CIC/TC FT4
- CSA AWM II A/B FT4
- Additional: - MSHA: P-07-KA050013-MSHA
- ICEA-T-24-380 Corona Test
- CE & RoHS

* Please note: 16 AWG has a drain wire.

Part Number	Number of Conductors includes ground	Conductor Diameter inches	Conductor Diameter mm	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	SKINTOP® MS-SCL (PG) Page 504	SKINTOP® MS-SC-M Brush (Metric) Page 506
18 AWG (1.00 mm²)										
761804	4	.104	2.6	.394	10.0	53	112	167	53112330	
16 AWG (1.50 mm²)										
761604	4	.117	3.0	.470	11.9	73	154	229	53112340	53112676
14 AWG (2.50 mm²)										
761404	4	.134	3.4	.516	13.1	100	193	288	53112340	53112676
12 AWG (4 mm²)										
761204	4	.158	4.0	.584	14.8	139	254	378	53112350	53112676
10 AWG (6 mm²)										
761004	4	.200	5.1	.698	17.7	195	346	515	53112350	53112677
8 AWG (10 mm²)										
760804	4	.276	7.0	.837	21.3	326	544	810	53112360	53112678
6 AWG (16 mm²)										
760604	4	.320	8.1	1.001	25.4	494	797	1187	53112370	53112678
4 AWG (21.0 mm²)										
760404	4	.400	10.2	1.186	30.1	648	965	1437	53112370	53112679
2 AWG (33.7 mm²)										
760204	4	.472	11.9	1.394	35.4	985	1339	1992	-	53112680