

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.



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: -40°C to +90°C (UL/CSA TC)
-40°C to +105°C (UL/CSA/AWM)
- Nominal Voltage: 600 V (UL/CSA TC)
1000 V (Wind Turbine Tray Cable)
- Conductor Stranding: Class 5 Fine Wire: 18-6 AWG
Class K Fine Wire: 4-2 AWG
- 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 (19/30) 1.00 mm ²										
761804	4	.104	2.6	.394	10.0	52	111	165	53112330	
16 AWG (26/30) 1.32 mm ²										
761604	4	.117	3.0	.470	11.9	61	142	211	53112340	53112676
14 AWG (41/30) 2.08 mm ²										
761404	4	.134	3.4	.516	13.1	86	179	266	53112340	53112676
12 AWG (65/30) 3.30 mm ²										
761204	4	.158	4.0	.584	14.8	119	234	348	53112350	53112676
10 AWG (105/30) 5.32 mm ²										
761004	4	.200	5.1	.698	17.7	178	329	490	53112350	53112677
8 AWG (168/30) 8.52 mm ²										
760804	4	.276	7.0	.837	21.3	290	508	756	53112360	53112678
6 AWG (266/30) 13.5 mm ²										
760604	4	.320	8.1	1.001	25.4	429	732	1089	53112370	53112678
4 AWG (413/30) 21.0 mm ²										
760404	4	.400	10.2	1.186	30.1	600	917	1365	53112370	53112679
2 AWG (665/30) 33.7 mm ²										
760204	4	.472	11.9	1.394	35.4	985	1339	1992	-	53112680