

OLFLEX® VFD Slim

Reduced Diameter VFD Cable with “Lapp Surge Guard”
UL & CSA TC Approval



OLFLEX® 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 preventing 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:

- “Lapp Surge Guard” protection to eliminate cable failure due to electrical disturbances
- Industrial Grade PVC jacket passing Oil Res I
- UL TC-ER & c(UL)CIC/TC approved
- Corona Inception Voltage is 2900 volts
- Double shielded for extra protection
- Conforms to NFPA 79 2007 Wiring

OLFLEX® VFD Slim Construction:

Finely stranded tinned copper conductors; specially formulated “Lapp Surge Guard” insulation; barrier tape; 85% shielding with foil tape and tinned copper braid (70% coverage); specially formulated PVC black jacket.

OLFLEX® VFD SLIM (UL) TYPE TC-ER 90°C 600V c(UL) CIC/TC FT4 CSA AWM CE MSHA RoHS

Cable Attributes, See Page 653 Oil Resistance: OR-02 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 685 SKINTOP® MS-SCL: Page 504 EPIC® Connectors: Page 251 SKINTOP® BRUSH: Page 506
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Technical Data:

Minimum Bending Radius for flexible use:	7.5 x cable diameter	Approvals:	UL:	- Type TC-ER - UL Type MTW, NFPA 79 2007 - Wet Rating 75°C, Oil Res I - DP-1 90°C, UL-AWM 90°C - Class 1 Div. 2 per NEC Art. 336, 392, 501 - Sunlight resistant and direct burial - Submersible Pump (14 AWG or Larger)
Temperature Range:	-25°C to +90°C		CSA:	- c(UL) CIC/TC FT4 - AWM I/II A/B FT4
Nominal Voltage:	600V - TC (UL & CSA) 1000V - TC Wind Turbine (WTTC)		Additional:	- MSHA: P-07-KA050013-MSHA - ICEA-T-24-380, Corona test
Conductor Stranding:	Class K Stranding			
Color Code:	Three black conductors with white numbers, plus green/yellow ground			

* 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	35	111	165	53112330	
16 AWG (26/30) 1.50 mm ² 761604	4	.117	3.0	.456	11.6	48	125	186	53112330	53112677
14 AWG (41/30) 2.50 mm ² 761404	4	.134	3.4	.497	12.6	78	133	198	53112340	53112677
12 AWG (65/30) 4 mm ² 761204	4	.158	4.0	.555	14.1	121	180	268	53112340	53112677
10 AWG (105/30) 6 mm ² 761004	4	.200	5.1	.677	17.2	173	271	403	53112350	53112677
8 AWG (168/30) 10 mm ² 760804	4	.276	7.0	.879	22.3	279	450	670	53112360	53112678
6 AWG (266/30) 16 mm ² 760604	4	.320	8.1	.994	25.2	435	617	918	-	53112678
4 AWG (413/30) 25 mm ² 760404	4	.400	10.2	1.186	30.1	613	917	1365	-	53112679
2 AWG (665/30) 36 mm ² 760204	4	.472	11.9	1.394	35.4	945	1339	1992	-	53112680