

# OLFLEX® VFD with Signal

Flexible VFD Cable with a Pair for Brake or Temperature Sensor



OLFLEX® VFD with Signal is an extremely oil resistant, UV resistant shielded motor cable for VFD Drives. It has an additional shielded pair for VFD drives with a brake or temperature sensor. OLFLEX® VFD with Signal is designed with "Lapp Surge Guard" to smooth out the stranded copper and disperse increases in voltage and has an elastomeric alloy jacket for industrial applications.

### Recommended Applications:

VFD drive and motor connections with temperature sensors or brake mechanisms, Web presses, HVAC, 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 & Chemical Resistant elastomeric alloy jacket passing Oil Res I, II
- Shielded pair for brake or temperature sensor
- Corona Inception Voltage is 2900 volts
- Double shielded for extra protection
- UL TC-ER & c(UL)CIC/TC approved

### OLFLEX® VFD with Signal Construction:

Finely stranded tinned copper conductors; specially formulated "Lapp Surge Guard" insulation; pair is specially blended PVC insulation with a foil shield and drain wire; barrier tape; 100% shielding with a foil tape and tinned copper braid (85% coverage) with drain wire, specially formulated oil and chemical resistant elastomeric alloy black jacket

OLFLEX® VFD W/ SIGNAL (UL) TC-ER 90°C 600V c(UL) CIC/TC FT4 600V CE MSHA 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 685		EPIC® Connectors: Page 251
	SKINTOP® BRUSH: Page 506		SKINTOP® MS-SCL: Page 504

### Technical Data:

	Minimum Bending Radius for flexible use:	10 x cable diameter		Color Code:	Three black conductors with white numbers, plus green/yellow ground, and one black pair with white numbers
	Temperature Range:	-25°C to +105°C		Approvals:	UL: <ul style="list-style-type: none"> <li>- Type TC-ER, 90°C,</li> <li>- UL Type MTW, NFPA 79 2007</li> <li>- Wet Rating 75°C, Oil Res I/II</li> <li>- UL DP-1 90°C, UL-AWM 105°C,</li> <li>- Class 1 Div. 2 per NEC Art. 336, 392, 501</li> </ul> CSA: <ul style="list-style-type: none"> <li>- c(UL) CIC/TC FT4</li> <li>- AWM I/II A/B FT4</li> </ul> Additional: <ul style="list-style-type: none"> <li>- MSHA: P-07-KA050011-MSHA</li> <li>- ICEA: T-24-380, Corona Test</li> </ul>
	Nominal Voltage:	600V- TC 1000V- TC Wind Turbine (WTTC)			
	Test Voltage:	7500V			
	Conductor Stranding:	Fine Wire			

Part Number	Description	Number of Conductors includes ground	1 pair for signal shielded	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
16 AWG (26/30) 1.32 mm <sup>2</sup>										
7416048	16/4c + 18/2c	4	+	18 AWG (19/30)	.515	13.1	80	176	262	53112340 53112676
14 AWG (41/30) 2.08 mm <sup>2</sup>										
7414048	14/4c + 18/2c	4	+	18 AWG (19/30)	.556	14.1	105	250	372	53112350 53112676
7414044	14/4c + 14/2c	4	+	14 AWG (41/30)	.581	14.8	122	270	402	53112350 53112676
12 AWG (65/30) 3.30 mm <sup>2</sup>										
7412048	12/4c + 18/2c	4	+	18 AWG (19/30)	.610	15.5	165	294	438	53112350 53112676
7412044	12/4c + 14/2c	4	+	14 AWG (41/30)	.632	16.1	182	314	467	53112350 53112677
10 AWG (105/30) 5.32 mm <sup>2</sup>										
7410044	10/4c + 14/2c	4	+	14 AWG (41/30)	.724	18.4	232	474	705	53112360 53112677
8 AWG (168/30) 8.52 mm <sup>2</sup>										
7408044	8/4c + 14/2c	4	+	14 AWG (41/30)	.953	24.2	341	607	903	53112360 53112678
6 AWG (266/30) 13.5 mm <sup>2</sup>										
7406044	6/4c + 14/2c	4	+	14 AWG (41/30)	1.082	27.5	503	848	1262	- 53112678
4 AWG (413/30) 21.0 mm <sup>2</sup>										
7404044	4/4c + 14/2c	4	+	14 AWG (41/30)	1.322	33.6	673	1251	1862	- 53112679