

# ÖLFLEX<sup>®</sup> VFD SLIM

**UDB761804EN**

Date: January 1, 2019

## 1. APPLICATION

ÖLFLEX<sup>®</sup> 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 reflections, spikes, in-rush currents, and harmonics.

### Applications:

VFD drive and motor applications; web presses; HVAC; conveyors; any on/off, slow down/speed up applications using VFD drives and motors.

### Underwriters Laboratories

For Tray use in exposed run applications, Wind Turbines, Machine Tools, Flexible Motor Supply etc. and internal or external wiring of electrical and electronic equipment.

### Canadian Standards

For Tray use, Control Instrumentation, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

## 2. CABLE DESCRIPTION

- Tinned copper fine wire
- “Lapp Surge Guard” insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- Overall Foil and TC Braid Shield
- Black UV, oil and flame resistant specially formulated thermoplastic polymer jacket

## 3. TECHNICAL DATA

Conductor Stranding	18 AWG (1,0 mm <sup>2</sup> ) to 6 AWG (16,0 mm <sup>2</sup> ): Class 5 (IEC 60228; VDE 0295) 18 AWG meets only class 5 cross section and DC conductor resistance 4 AWG (21,0 mm <sup>2</sup> ) to 2 AWG (33,7 mm <sup>2</sup> ): Class K	
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard 1277 and with CSA standards C22.2 No. 230 & No. 239	
Insulation	“Lapp Surge Guard” with power distortion suppressant insulation and a crush resistant Nylon coating	
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width)	
Shield	Tri-laminated Foil and Tinned Copper Braid Shield (85% coverage) Tinned Copper Drain wire (included in P/N 761604)	
Outer Sheath	Specially formulated thermoplastic polymer jacket	
Nominal Voltage	UL / CSA TC:	600V
	UL WTTC:	1000V
	UL Flexible Motor Supply:	1000V
	VDE U <sub>0</sub> /U:	600/1000V
Test Voltage	2000V	

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Min Bend radius	For installation:	7.5 x OD
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
Cable Attributes	OR-03, FR-03, FL-01, MP-03 Sunlight resistant, Direct Burial	
Approvals	UL MTW (Machine-Tool Wire) per UL 1063 UL Type TC (Tray Cable) - ER (Exposed Run) per UL 1277 UL WTTC (Wind Turbine Tray Cable) per UL 2277 UL Flexible Motor Supply Cable per UL 2277 UL Submersible Pump Cable (14AWG and larger) UL AWM 20886 (Appliance Wiring Material) per UL 758 c(UL) CIC/TC FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230 CSA AWM I/II A/B FT4 per CSA C22.2 No. 210	
Additional	NEC Article 336, Article 501 NFPA 79 VDE 250-1 (meets rated voltage requirements only) P07-KA050013-MSHA LVD 2014/35/EU (Low Voltage Directive) RoHS directive	