

ÖLFLEX® FD VFD

UDB771404EN
Date: January 1, 2019

1. APPLICATION

ÖLFLEX® FD VFD is a shielded continuous flex motor cable for VFD drives. It is designed with the “Lapp Surge Guard” insulation system, which includes a semi conductive layer made to withstand nonlinear power distortions associated with VFD drives in industrial applications.

Applications:

VFD drive and motor connections in continuous flex applications; Plastic extrusion; any on/off, slow down/speed up applications.

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

- Bare copper flexible stranding
- “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	14 AWG (2,11 mm ²) to 10 AWG (5,32 mm ²): Class M	
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	Foil and Tinned Copper Braid Shield (85% coverage)	
Outer Sheath	Specially formulated thermoplastic polymer jacket	
Nominal Voltage	UL / CSA TC:	600V
	UL WTTC:	1000V
	UL Flexible Motor Supply:	1000V
Test Voltage	2000V	
Min Bend radius	For stationary use:	5 x OD
	For continuous flexing:	7.5 x OD

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Temperature Range	UL/CSA TC: -25°C to +90°C For stationary use: -40°C to +105°C For continuous flexing: -5°C to +90°C
Cable Attributes	OR-03, FR-03, CF-02, MP-03 Sunlight resistant, Direct Burial
Approvals	UL Type TC (Tray Cable) - ER (Exposed Run) per UL 1277 UL MTW (Machine-Tool Wire) per UL 1063 UL WTTC (Wind Turbine Tray Cable) per UL 2277 UL Flexible Motor Supply Cable per UL 2277 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 LVD 2014/35/EU (Low Voltage Directive) RoHS directive