



# ÖLFLEX® VFD 2XL & SIGNAL

UDB700710EN

Date: July 1, 2023

## 1. APPLICATION

ÖLFLEX® VFD 2XL with signal is a robust oil-resistant shielded motor cable for VFD drives, with a pair for brake or temperature sensor functions. Due to the enhanced electrical properties of its XLPE insulation, ÖLFLEX® VFD 2XL with Signal provides problem-free performance where precision control is critical.

### Applications:

VFD drive and motor connections; 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, Flexible Motor Supply etc. and internal or external wiring of electrical and electronic equipment.

### Canadian Standards

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

## 2. CABLE DESCRIPTION

- Tinned copper fine wire
- XLPE (Plus) insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- One Signal Pair individually shielded
- Overall Foil and TC Braid Shield
- Black UV, oil and flame resistant specially formulated thermoplastic elastomer (TPE) jacket

## 3. TECHNICAL DATA

Conductor Stranding	16 AWG (1,5 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	XLPE (Plus)	
Signal Pair	18 or 14 AWG, TC conductors, individually foil shielded w/ TC Drain wire	
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width) <u>Signal Pair</u> : Black conductors with white numbers	
Shield	Tri-laminated Foil and Tinned Copper Braid Shield (85% coverage)	
Outer Sheath	Specially formulated thermoplastic elastomer (TPE) jacket	
Nominal Voltage	UL TC:	1000V / 2000V
	UL WTTC:	1000V
	UL Flexible Motor Supply:	1000V
	c(UL) CIC / TC-ER:	600V
	VDE U <sub>0</sub> /U:	600/1000V

AbN  
automation



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Test Voltage	6000V: 7500V:	16 AWG to 10 AWG 8 AWG to 2 AWG
Min Bend radius	For installation:	7.5 x OD
Temperature Range	UL/CSA TC: For stationary use: For flexible use:	-25°C to +90°C -40°C to +105°C -25°C to +105°C
Cable Attributes	OR-03, FR-03, FL-01, MP-03 90°C Wet or Dry, Sunlight resistant, Direct Burial	
Approvals	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 RHW-2 per UL 44 c(UL) CIC/TC-ER FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230 cRU 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) LVD 2014/35/EU (Low Voltage Directive) RoHS directive	