

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 ²) to 6 AWG (16,0 mm ²): Class 5 (IEC 60228; VDE 0295) 18 AWG meets only class 5 cross section and DC conductor resistance 4 AWG (21,0 mm ²) to 2 AWG (33,7 mm ²): 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 ₀ /U:	600/1000V

AbN
automation

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Test Voltage	6000V:	16 AWG to 10 AWG
	7500V:	8 AWG to 2 AWG
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 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	