

ÖLFLEX® VFD 1XLC & Signal

UDB701910EN
Date: April 18, 2023

1. APPLICATION

ÖLFLEX® VFD 1XLC & Signal is a shielded motor cable with Canadian Approvals for VFD applications. This robust cable provides exceptional oil and crush resistance required for industrial tray applications. The enhanced electrical properties of XLPE plus insulation provide problem-free performance where precision control is critical. The UL TC-ER allows for installation without conduit, providing material and labor cost savings.

Applications:

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

Underwriters Laboratories

For Tray use in Exposed Run applications as per Article 336 of the National Electrical Code or as Power and Control Cable in Servomotors and VFD drives.

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
- 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)

3. TECHNICAL DATA

Conductor Stranding	16 AWG (1,32 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 standard C22.2 No. 230 & No. 239	
Insulation	Specially formulated Cross-Linked Polyethylene (XLPE) Plus	
Signal Pair	18 or 14 AWG, Class K 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) Tinned Copper Drain wire	
Outer Sheath	Specially Formulated Thermoplastic Elastomer (TPE)	
Nominal Voltage	UL/CSA TC:	600V
	UL Flexible Motor Supply	1000V
	UL/CSA AWM:	1000V
Test Voltage	3000V:	16 AWG to 10 AWG
	3500V:	8 AWG to 4 AWG
	4000V:	2 AWG

Engineer: N. Binkert Approval: D. Kocheta	Document: UDB701910EN	Page 1 of 2
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This data sheet contains the latest product specification information available. Data sheet is subject to change without prior notice.

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Min Bend radius	For installation:	7.5 x OD
Temperature Range	UL/CSA:	-25°C to +90°C
	For stationary use:	-40°C to +90°C
	For flexible use:	-25°C to +90°C
Cable Attributes	OR-03, FR-03, FL-02, MP-03 90°C Wet or Dry, Sunlight resistant, Direct Burial	
Approvals	UL Type TC (Tray Cable) - ER (Exposed Run) per UL 1277 UL Flexible Motor Supply Cable per UL 2277 UL XHHW-2 per UL 44 and CSA C22.2 No. 38 UL AWM 22022 (Appliance Wiring Material) per UL 758 c(UL) CIC/TC-ER FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230 cRU AWM II A/B FT4 per CSA C22.2 No. 210	
Additional	NEC Article 310, 336, Article 501 NFPA 79 LVD 2014/35/EU (Low Voltage Directive) RoHS II directive 2011/65/EU	