

# ÖLFLEX<sup>®</sup> SERVO FD 7TCE

UDB700750EN

Date: March 25, 2021

## 1. APPLICATION

ÖLFLEX<sup>®</sup> Servo FD 7TCE is a continuous flex and oil resistant servo cable suitable for mounting either in equipment or in cable tray, eliminating the need for two different types of cable in a single run. A longer cable connection is possible between the drive and the motor due to its low capacitance design. This one cable solution is ideal for installing power to servo motor systems.

### Applications:

Motor connections between servo controller and motors on industrial machinery; in tray applications and cable tracks or moving machine parts; assembly handling; production lines and robotic systems with North American and European approvals

### Underwriters Laboratories

For Tray use in exposed run applications, flexible motor supply, and internal or external wiring of electrical and electronic equipment.

### Canadian Standards

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

## 2. CABLE DESCRIPTION

- Bare copper super fine wire stranding
- EPR insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- One or two individually Foil and TC Braid shielded pairs
- Overall TC Braid Shield
- Orange UV, oil and flame resistant specially formulated thermoplastic elastomer (TPE) jacket

## 3. TECHNICAL DATA

Conductor Stranding	18 AWG (1,0 mm <sup>2</sup> ) to 10 AWG (6,0 mm <sup>2</sup> ): Class 6 (IEC 60228; VDE 0295) 18 AWG meets only class 6 cross section and DC conductor resistance
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard 1277 and with CSA standards C22.2 No. 239
Insulation	Ethylene Propylene Rubber (EPR) insulation
Control Pairs	<u>One Control Pair:</u> Individually foil shielded and a TC Braid Shield (85% coverage) <u>Two Control Pairs:</u> Individually foil shielded with TC Drain wire and TC Braid Shield (85% coverage)
Color Code	Black conductors with white Identification: U/L1/C/L+; V/L2; W/L3/D/L- Plus green/yellow (30% stripe width) <u>One Control Pair:</u> Black & White <u>Two Control Pairs:</u> Black conductors with white numbers: 5, 6, 7, 8
Shield	Tinned Copper Braid Shield (85% coverage)
Outer Sheath	Specially formulated thermoplastic elastomer (TPE) jacket

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Nominal Voltage	UL TC:	1000V
	UL Flexible Motor Supply:	1000V
	VDE U <sub>0</sub> /U:	600/1000V
Test Voltage	4000V	
Min Bend radius	For stationary use:	5 x OD
	For continuous flexing:	7.5 x OD
Temperature Range	For UL TC:	-25°C to +90°C
	For stationary use:	-40°C to +105°C
	For continuous flexing:	-25°C to +90°C
Cable Attributes	OR-03, FR-03, CF-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 c(UL) CIC FT4 per CSA C22.2 No. 239 (14 AWG and smaller) cRU AWM II A/B FT4 per CSA C22.2 No. 210	
Additional	NEC Article 336, Article 501 NFPA 79 Meets XHHW-2 performance requirements LVD 2014/35/EU (Low Voltage Directive) RoHS directive	