

ÖLFLEX[®] SERVO FD 7TCE

UDB700750EN

Date: January 1, 2019

1. APPLICATION

ÖLFLEX[®] 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 ²) to 10 AWG (6,0 mm ²): 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 ₀ /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 LVD 2014/35/EU (Low Voltage Directive) RoHS directive	