



# ÖLFLEX® SERVO 7TCE

UDB700730EN

Date: March 25, 2021

## 1. APPLICATION

ÖLFLEX® SERVO 7TCE is a highly flexible and oil resistant servo cable suitable for mounting either in the equipment or in cable trays, eliminating the need for two different types of cable in a single run. It offers one cable solution for installing power servo motor systems.

### Applications:

Motor connections between servo controller and motors on industrial machinery; in tray applications and moving machine parts; assembly handling; and production lines 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 fine wire
- XPLE Plus 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 5 (IEC 60228; VDE 0295)		
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard 1277 and with CSA standards C22.2 No. 239		
Insulation	Specially formulated Cross Linked Polyethylene (XLPE) Plus		
Control Pairs	<u>One Control Pair:</u> Foil shielded and 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	1000V	1000V
Shield	Tinned Copper Braid Shield (85% coverage)	1000V	1000V
Outer Sheath	Specially formulated thermoplastic elastomer (TPE) jacket	600/1000V	600/1000V
Nominal Voltage	UL TC: UL Flexible Motor Supply: VDE U <sub>0</sub> /U:	1000V 1000V 600/1000V	AbN automation



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Test Voltage	2000V
Min Bend radius	For installation: 6 x OD
Temperature Range	For UL TC: -25°C to +90°C For stationary use: -40°C to +105°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 c(UL) CIC FT4 per CSA C22.2 No. 239 (14 AWG and smaller) cRUE AWM II A/B FT4 per CSA C22.2 No. 210
Additional	NEC Article 336, Article 501 NFPA 79 Meets XHHW-2 performance requirements VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive