

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 ²) to 10 AWG (6,0 mm ²): 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	
Shield	Tinned Copper Braid Shield (85% coverage)	
Outer Sheath	Specially formulated thermoplastic elastomer (TPE) jacket	
Nominal Voltage	UL TC:	1000V
	UL Flexible Motor Supply:	1000V
	VDE U ₀ /U:	600/1000V

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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) 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 VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive