



# **ÖLFLEX® SERVO 7TCE**

# Flexible tray-rated servo cable; 600/1000V; UL TC-ER approval



#### LAPP KABEL STUTTGART ÖLFLEX® SERVO 7TCE

ÖLFLEX® SERVO 7TCE is a highly flexible 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.

### Construction

Conductors: finely stranded bare copper

Insulation: XLPE

<u>Pairs:</u> one pair: shielded with foil & tinned copper braid (85% coverage) • two Pairs: individually shielded with foil, drain wire, tinned copper braid (85% coverage); twisted together

Shielding: overall tinned copper braid (85% coverage)

<u>Jacket:</u> specially formulated thermoplastic elastomer (TPE); orange

### Recommended 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

### Application Advantage

- Tray rated cable for servo applications
- · Low capacitance design
- UL TC-ER & c(UL) CIC approvals
- · Oil & UV resistant; flame retardant
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

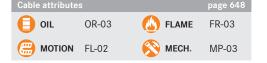
### Approvals















#### Technical data

Minimum bend radius: 6 x cable diameter Approvals: UL: TC-ER per UL 1277

Temperature range:

- for stationary use: -40°C to +105°C - UL TC: -25°C to +90°C

7 Nominal voltage:

 $\begin{array}{lll} - \text{ UL TC-ER:} & 600\text{V} \\ - \text{ UL Flexible Motor Supply:} & 1000\text{V} \\ - \text{ VDE U}_0/\text{U:} & 600/1000\text{V} \end{array}$ 

Test voltage: 2000V

Conductor stranding: Class 5 fine wire

Color code:

- 1 pair:

- power conductors: black conductors with white letters:

U/L1/C/L+; V/L2; W/L3/D/L-

plus green/yellow ground black & white

- 2 pair: black with white numbers: 5, 6, 7, 8

Flexible Motor Supply 1000V

Attributes: UL Oil Res I/II

-40°C cold bend; -25°C cold impact

UV resistant direct burial NFPA 79

NEC: Class 1 Division 2 per NEC Article 501

Canada: c(UL) CIC FT4 (18 - 14 AWG)

cRU AWM II A/B FT4

Additional: CE & RoHS



# Flexible cable for drives, motors & assemblies

# Servo cable

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Part number	Conductor description power conductors + control pairs			Nominal outer diameter		Copper weight	Approx. weight	EPIC® POWER LS1*
				in	mm	lbs/mft	lbs/mft	configuration
4 power conducto	rs							
700730	16 AWG/4c		_	0.385	9.78	59	96	5+PE
700731	14 AWG/4c		_	0.433	11.00	89	134	5+PE
700732	12 AWG/4c		_	0.504	12.80	134	192	5+PE
700733	10 AWG/4c		_	0.555	14.10	189	251	-
4 power conducto	rs + 1 control pair							
700734	16 AWG/4c	+	(16 AWG/1pr)	0.494	12.55	99	161	3+PE+4
700735	14 AWG/4c	+	(16 AWG/1pr)	0.524	13.31	128	202	3+PE+4
700736	12 AWG/4c	+	(16 AWG/1pr)	0.620	15.75	174	290	3+PE+4
700737	10 AWG/4c	+	(16 AWG/1pr)	0.669	17.00	238	333	_
4 power conducto	rs + 2 control pairs							
700738	18 AWG/4c	+	2 x (18 AWG/1pr)	0.520	13.21	112	186	3+PE+4
700739	16 AWG/4c	+	2 x (18 AWG/1pr)	0.547	13.89	126	211	3+PE+4
700740	14 AWG/4c	+	2 x (18 AWG/1pr)	0.610	15.49	154	260	3+PE+4
700741	12 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.669	17.00	219	327	3+PE+4
700742	10 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.712	18.08	275	386	_

<sup>( ) =</sup> shielded

\* Check connection on motor prior to selecting EPIC® POWER LS1 connector type