

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.

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

Approvals



Construction

Conductors: finely stranded bare copper

Insulation: XLPE

Pairs: 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)

Jacket: specially formulated thermoplastic elastomer (TPE); orange

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

Cable attributes		page 648	
 OIL	OR-03	 FLAME	FR-03
 MOTION	FL-02	 MECH.	MP-03

Complete the installation	
	EPIC® POWER LS1 page 441

ÖLFLEX® CONNECT solution	
	ÖLFLEX® CONNECT SERVO page 607

Technical data

 Minimum bend radius:	6 x cable diameter	 Approvals:	UL: TC-ER per UL 1277 Flexible Motor Supply 1000V
 Temperature range:			Attributes: UL Oil Res I/II -40°C cold bend; -25°C cold impact UV resistant direct burial NFA 79
	- for stationary use: -40°C to +105°C		NEC: Class 1 Division 2 per NEC Article 501
	- UL TC: -25°C to +90°C		Canada: c(UL) CIC FT4 (18 - 14 AWG) cRU AWM II A/B FT4
 Nominal voltage:			Additional: CE & RoHS
	- UL TC-ER: 600V		
	- UL Flexible Motor Supply: 1000V		
	- VDE U ₀ /U: 600/1000V		
 Test voltage:	2000V		
 Conductor stranding:	Class 5 fine wire		
 Color code:			
	- power conductors: black conductors with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground		
	- 1 pair: black & white		
	- 2 pair: black with white numbers: 5, 6, 7, 8		

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Part number	Conductor description power conductors + control pairs			Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	EPIC® POWER LS1* configuration
				in	mm			
4 power conductors								
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 conductors + 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 conductors + 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	—

() = shielded

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