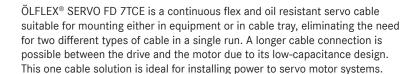


ÖLFLEX® SERVO FD 7TCE

Continuous flex tray-rated servo cable; 600/1000V; UL TC-ER approval



LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 7TCE



Recommended 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

Approvals









Construction

Conductors: finely stranded bare copper

Insulation: EPR

<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)

<u>Shielding:</u> overall wrapping; overall tinned copper braid (85% coverage)

<u>lacket:</u> 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

 Cable attributes
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 OIL
 OR-03
 FLAME
 FR-03

 MOTION
 CF-02
 MECH.
 MP-03





Technical data

Minimum bend radius:

for continuous flexing:for stationary use:7.5 x cable diameter

Temperature range:

- for continuous flexing: -5°C to +90°C - for stationary use: -40°C to +105°C - UL TC: -25°C to +90°C

7 Nominal voltage:

- UL TC-ER: 600V - UL Flexible Motor Supply: 1000V - VDE U_o/U: 600/1000V

Test voltage: 4000V

Conductor stranding: Class 6 super fine wire

Color code:

Approvals:

- power: 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

UL: TC-ER per UL 1277

NFPA 79

Flexible Motor Supply 1000V

Attributes: UL Oil Res I/II

-40°C cold bend; -25°C cold impact UV resistant direct burial

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

Subsection

ÖLFLEX® SERVO FD 7TCE

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 conductor	rs							
700750	16 AWG/4c		_	0.400	10.2	61	117	5+PE
700751	14 AWG/4c		_	0.448	11.4	95	154	5+PE
700752	12 AWG/4c		_	0.514	13.1	135	214	5+PE
700753	10 AWG/4c		_	0.590	15.0	190	289	_
4 power conductor	rs + 1 control pair							
700754	16 AWG/4c	+	(16 AWG/1pr)	0.500	12.7	97	174	3+PE+4
700755	14 AWG/4c	+	(16 AWG/1pr)	0.543	13.8	134	239	3+PE+4
700756	12 AWG/4c	+	(16 AWG/1pr)	0.635	16.1	184	300	3+PE+4
700757	10 AWG/4c	+	(16 AWG/1pr)	0.674	17.1	232	360	_
4 power conductor	rs + 2 control pairs							
700758	18 AWG/4c	+	2 x (18 AWG/1pr)	0.523	13.3	102	188	3+PE+4
700759	16 AWG/4c	+	2 x (18 AWG/1pr)	0.584	14.8	128	238	3+PE+4
700760	14 AWG/4c	+	2 x (18 AWG/1pr)	0.625	15.9	153	275	3+PE+4
700761	12 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.705	17.9	214	352	_
700762	10 AWG/4c	+	(18 AWG/1pr) + (16 AWG/1pr)	0.741	18.8	262	411	_

^{() =} shielded

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