

## Servo cable

## Flexible cable for drives, motors & assemblies

# ÖLFLEX® SERVO FD 7FTC

## Continuous flex encoder/feedback cable

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 7FTC



ÖLFLEX® SERVO FD 7FTC is an encoder cable for use with servo motors. Continuous flex and oil resistant cable suitable for mounting from cable track to tray. Low capacitance insulation ideal for long cable runs. Many popular configurations available, including for Rockwell and Siemens servo drives.

### Recommended applications

Connecting cable between servo controller and encoder/resolver; connecting cable between servo controller and motor via cable chains. Cable used in machine parts, transfer lines, and production lines.

### Approvals



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



### Complete the installation



EPIC®  
SIGNAL  
M23  
page 446



ÖLFLEX®  
SERVO  
FD 7TCE  
page 111

### ÖLFLEX® CONNECT solution



ÖLFLEX® CONNECT  
SERVO  
page 607

\*UL Verified ID A522492: Continuous Flex Test Method Verified

### Technical data

 <b>Minimum bend radius:</b>	<b>Conductor stranding:</b>	fine wire
- for continuous flexing:	10 x cable diameter	
 <b>Temperature range:</b>	<b>Color code:</b>	see color chart next page
- for stationary use:		
-40°C to +90°C		
- for continuous flexing:		
-25°C to +90°C		
 <b>Nominal voltage:</b>	<b>Approvals:</b>	UL: AWM 22022 per UL 758
UL/CSA: 300V		PLTC per UL 13 (22AWG to 16AWG only)
UL/CSA AWM: 1000V		ITC per UL2250 (22AWG to 16AWG only)
 <b>Test voltage:</b>		CMG per UL 444
2000V		cRU: AWM II A/B FT4 per CSA C22.2 No210
		c(UL): CMG per CSA C22.2 No214
		Additional: NEC articles 725, 727, and 800
		NFPA 79
		RoHS directive

Part number	Construction		Jacket color	Approvals	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	EPIC® SIGNAL M23 # of contacts
	conductors	pairs			in	mm			
1034110		16 AWG/1pr + 26 AWG/6pr + 22AWG/1pr	green	CMG, AWM	0.434	11.0	51	94	16
1034111		22 AWG/5pr	green	PLTC, ITC, CMG, AWM	0.368	9.3	40	80	12
1034112	20 AWG/2c	+	24 AWG/4pr	orange	0.324	8.2	32	60	12
1034113	20 AWG/4c	+	22 AWG/4pr	green	0.400	10.2	50	94	12
1034114	20 AWG/2c + 26 AWG/4c	+	3 x (26AWG/1pr)	green	0.355	9.0	43	80	12
1034115		18 AWG/1pr + 24 AWG/4pr	orange	CMG, AWM	0.344	8.7	39	74	12
1034116	20 AWG/2c + 26AWG/4c	+	3 x (26AWG/1pr)	green	0.367	9.3	47	87	16
1034117	20 AWG/2c	+	24 AWG/2pr	green	0.274	7.0	24	47	12
1034118	(18 AWG/2c)	+	4 x (26 AWG/1pr)	green	0.383	9.7	56	94	12
1034119	18 AWG/4c + (26AWG/4c)	+	26 AWG/4pr	orange	0.405	10.3	61	100	16
1034120	20 AWG/5c	+	26 AWG/2pr	green	0.308	7.8	42	67	9
1034121	20 AWG/9c		green	PLTC, ITC, CMG, AWM	0.393	10.0	61	100	9
1034122	2 x (20 AWG/1C)	+	3 x (26AWG/1PR)	green	0.342	8.7	40	73	9

( ) = foil and tinned copper spiral shield (90% coverage)

All designs have an overall tinned copper Braid Shield (85% coverage)

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.

If not otherwise specified, all values relating to the product are nominal values.

Photographs are not to scale and are not true representations of the products in question.

### Construction

Conductors: finely stranded tinned copper

Pairs: twisted and bundled; shielded (see chart)

Insulation: XLPE (Plus)

Shielding: tinned copper braid (85% coverage)

Jacket: specially formulated thermoplastic elastomer (TPE); green, orange

### Application advantage

- One cable solution, from tray to track
- Low capacitance insulation for improved signal transmission over long distances
- Resistant to wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure.