

# ÖLFLEX® SERVO FD 7DSL

Continuous flex hybrid cable: one connection between drive, motor & feedback systems

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 7DSL



ÖLFLEX® SERVO FD 7DSL is a specially designed continuous flexing hybrid cable suitable for Hiperface DSL® motor-feedback systems. It is EMC compliant. For fixed or stationary applications, ÖLFLEX® SERVO 7DSL is the right cable. For bending cycles and operation parameters, see [www.lappusa.com/cf-rating](http://www.lappusa.com/cf-rating)

## Recommended applications

Power drive systems in automation engineering, connecting cable between servo controller and motor, assemblies, pick & place machinery, machine tools, transfer lines, cable chain applications

## Approvals



Cable attributes		page 648	
OIL	OR-05	FLAME	FR-02
MOTION	CF-04	MECH.	MP-05

## Construction

**Conductors:** super fine stranded bare copper • signal pair: tinned copper

**Insulation:** polypropylene

**Pairs:** signal pair: shielded with foil tape and tinned copper braid (85% coverage) • control pair: shielded with tinned copper braid (85% coverage)

**Shielding:** overall non-woven wrapping; tinned copper braid (85% coverage)

**Jacket:** polyurethane; orange

## Application advantage

- Only one cable needed for power and feedback circuits
- Available with or without additional control pair
- Low capacitance design
- Suitable for damp, wet, or dry areas
- Oil resistant and flame retardant
- Halogen-free and UV-resistant jacket

## ÖLFLEX® CONNECT solution



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## Technical data

<b>Minimum bend radius:</b>		<b>Test voltage:</b>	
- for continuous flexing:	7.5 x cable diameter	- power & control:	4000V
- for stationary use:	5 x cable diameter	- signal pair:	1000V
<b>Temperature range:</b>		<b>Color code:</b>	
- for continuous flexing:	-40°C to +80°C	- power conductors:	black with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground
- for stationary use:	-50°C to +80°C	- signal pair:	white & blue
<b>Conductor stranding:</b>		- control pair (optional):	black with white numbers: 5, 6
- signal pair:	Class 6 super fine wire 19 strand	<b>Approvals:</b>	UL: AWM 21223
- control pair (optional):	Class 6 super fine wire	Attributes:	NFPA 79
<b>Nominal voltage:</b>		Canada:	cRU AWM I/II A/B FT1
- power & control:		Additional:	based on VDE specifications
- UL:	1000V	CE & RoHS	
- IEC U <sub>0</sub> /U:	600/1000V		
- signal pair:	300V (not for power)		

Part number	Conductor description		Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft
	power conductors	+ control pairs	in	mm		
<b>4 power conductors + 1 control pair</b>						
1023275	16 AWG/4c	+	(22 AWG/1pr)	0.441	11.2	115
1023276	14 AWG/4c	+	(22 AWG/1pr)	0.496	12.6	160
1023277	12 AWG/4c	+	(22 AWG/1pr)	0.551	14.0	218
<b>4 power conductors + 2 control pairs</b>						
1023278	16 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.520	13.2	152
1023279	14 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.551	14.0	185
1023280	12 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.622	15.8	268

( ) = shielded pair

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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.