

# ÖLFLEX® SERVO 7DSL

Flexible hybrid cable: one connection between drive, motor & feedback system

LAPP KABEL STUÏGART ÖLFLEX® SERVO 7DSL



ÖLFLEX® SERVO 7DSL is a specially designed hybrid cable suitable for fixed or stationary installations in Hiperface DSL® motor-feedback systems. It is EMC compliant. For continuous flexing installations, ÖLFLEX® SERVO FD 7DSL is the right cable.

## Recommended applications

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

## Approvals



Cable attributes		page 648	
OIL	OR-01	FLAME	FR-02
MOTION	FL-01	MECH.	MP-02

## Construction

**Conductors:** finely 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:** specially formulated PVC; 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 and flame resistant

ÖLFLEX® CONNECT solution



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## Technical data

**Minimum bend radius:** 5 x cable diameter

**Temperature range:** -40°C to +80°C

**Conductor stranding:** Class 5 fine wire  
 - signal pair: 7 strand  
 - control pair (optional): Class 5 fine wire

**Nominal voltage:**  
 - power & control:  
   - UL: 1000V  
   - IEC U<sub>0</sub>/U: 600/1000V  
 - signal pair: 300V (not for power)

**Test voltage:**  
 - power & control: 4000V  
 - signal pair: 1000V

**Color code:**  
 - power conductors: black with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground  
 - signal pair: white & blue  
 - control pair (optional): black with white numbers: 5, 6

**Approvals:**  
 UL: AWM 2570  
 Attributes: NFPA 79  
 Canada: cRU AWM I/II A/B FT 1  
 Additional: based on VDE specifications  
 CE & RoHS

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>							
1023290	16 AWG/4c	+	(22 AWG/1pr)	0.441	11.2	74	130
1023291	14 AWG/4c	+	(22 AWG/1pr)	0.496	12.6	99	170
1023292	12 AWG/4c	+	(22 AWG/1pr)	0.551	14.0	140	223
<b>4 power conductors + 2 control pairs</b>							
1023293	16 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.520	13.2	94	168
1023294	14 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.551	14.0	124	191
1023295	12 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.622	15.8	166	262

( ) = shielded pair

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

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