

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

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

Minimum bend radius:

- for continuous flexing: 7.5 x cable diameter
- for stationary use: 5 x cable diameter

Temperature range:

- for continuous flexing: -40°C to +80°C
- for stationary use: -50°C to +80°C

Conductor stranding:

- signal pair: Class 6 super fine wire 19 strand
- control pair (optional): Class 6 super fine wire

Nominal voltage:

- power & control:
 - UL: 1000V
 - IEC U₀/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 21223
- Attributes: NFPA 79
- Canada: cRU AWM I/II A/B FT1
- 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		
4 power conductors + 1 control pair							
1023275	16 AWG/4c	+	(22 AWG/1pr)	0.441	11.2	115	128
1023276	14 AWG/4c	+	(22 AWG/1pr)	0.496	12.6	160	263
1023277	12 AWG/4c	+	(22 AWG/1pr)	0.551	14.0	218	313
4 power conductors + 2 control pairs							
1023278	16 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.520	13.2	152	256
1023279	14 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.551	14.0	185	393
1023280	12 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.622	15.8	268	407

() = 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.

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