

ÖLFLEX® SERVO 7DSL

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

LAPP KABEL STUTTGART 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	Test voltage:	
Temperature range:	-40°C to +80°C	- power & control:	4000V
Conductor stranding:	Class 5 fine wire	- signal pair:	1000V
- signal pair:	7 strand	Color code:	
- control pair (optional):	Class 5 fine wire	- power conductors:	black with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground
Nominal voltage:		- signal pair:	white & blue
- power & control:		- control pair (optional):	black with white numbers: 5, 6
- UL:	1000V	Approvals:	UL: AWM 2570
- IEC U ₀ /U:	600/1000V	Attributes:	NFPA 79
- signal pair:	300V (not for power)	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		
4 power conductors + 1 control pair						
1023290	16 AWG/4c	+	(22 AWG/1pr)	0.441	11.2	74
1023291	14 AWG/4c	+	(22 AWG/1pr)	0.496	12.6	99
1023292	12 AWG/4c	+	(22 AWG/1pr)	0.551	14.0	140
4 power conductors + 2 control pairs						
1023293	16 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.520	13.2	94
1023294	14 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.551	14.0	124
1023295	12 AWG/4c	+	(18 AWG/1pr) + (22 AWG/1pr)	0.622	15.8	166

() = 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.