

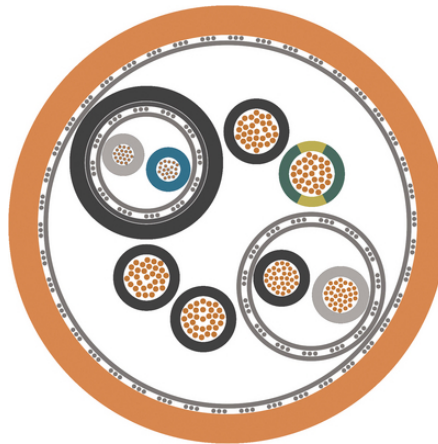
# ÖLFLEX® SERVO FD 7DSL







Low capacitive hybrid servo cable with PUR outer sheath for highly dynamic power chain application - certified

ÖLFLEX® SERVO FD 7DSL - hybrid cable for permanently moved power chain applications, UL/cUL AWM.

**Info**

- One cable solution for servo drives
- Suitable for Hiperface DSL® and SCS open link interfaces
- Extended Line Performance - Long travel lengths or high acceleration



-  Halogen-free
-  Mechanical resistance
-  Oil-resistant
-  Power chain
-  Interference signals
-  UV-resistant

**Benefits**

- Allows much faster speed and accelerations which increases the economic efficiency of the machines
- Only one connection line between drive and motor-feedback system. Instead of the encoder cable a specific integrated data pair takes over the signalling.
- Less cables and reduced connection costs
- Space and weight savings thanks to hybrid cable design
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

## ÖLFLEX® SERVO FD 7DSL

### Application range

Power drive systems in automation engineering  
Connecting cable between servo controller and motor  
In power chains or moving machine parts  
For use in assembling & pick-and-place machinery  
Particularly in wet areas of machine tools and transfer lines

### Product features

Maximum DSL transmission length: 100m  
Flammability:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Halogen-free materials  
Low-capacitance design  
Oil-resistant

### Norm references / Approvals

UL AWM Style 21223  
cRU AWM I/II A/B FT1  
UL File No. E63634  
For use in power chains: Please comply with assembly guideline Appendix T3

### Product Make-up

Extra-fine-wire, bare copper conductor (power cores and control pair) and 19-wire, tinned copper conductor (data pair)  
Core insulation: polypropylene (PP)  
Individual design depending on the item: power cores without or with one screened control pair and one DSL data pair twisted together  
Non-woven wrapping  
Tinned-copper braiding  
PUR outer sheath, orange (RAL 2003)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Core identification code:	Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor Signal pair: white, blue Control pair (optional): black with white numbers 5 + 6
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6 DSL data pair: 19-wired
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 5 x outer diameter
Nominal voltage:	Power and control: IEC: U0/U: 600/1000 V UL: 1000 V Signal pair: 300 V
Test voltage:	Power and control: 4 kV Data pair: 1kV

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You can find the current technical data in the corresponding data sheet.

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## ÖLFLEX® SERVO FD 7DSL

Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -40°C to +90°C (UL: +80°C) Fixed installation: -50°C to +90°C (UL: +80°C)
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue

### Note

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Hybrid cables for power chain applications				
1023275	4 G 1,5 + (2 x 22AWG)	11.2	115	198
1023276	4 G 2,5 + (2 x 22AWG)	12.6	160	269
1023277	4 G 4 + (2 x 22AWG)	14.0	218	343
1023282	4 G 0,5 + (2 x 0,34) + (2 x 26AWG)	9.6	73	132
1023273	4 G 0,75 + (2 x 0,34) + (2 x 26AWG)	10.6	97	160
1023274	4 G 1 + (2 x 0,75) + (2 x 22AWG)	11.8	133	202
1023278	4 G 1,5 + (2 x 1,0) + (2 x 22AWG)	13.2	152	256
1023279	4 G 2,5 + (2 x 1,0) + (2 x 22AWG)	14.0	195	313
1023280	4 G 4 + (2 x 1,0) + (2 x 22AWG)	15.8	268	407
1023281	4 G 6 + (2 x 1,0) + (2 x 22AWG)	17.8	334	485

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