# **OLAPP**

## PRODUCT INFORMATION

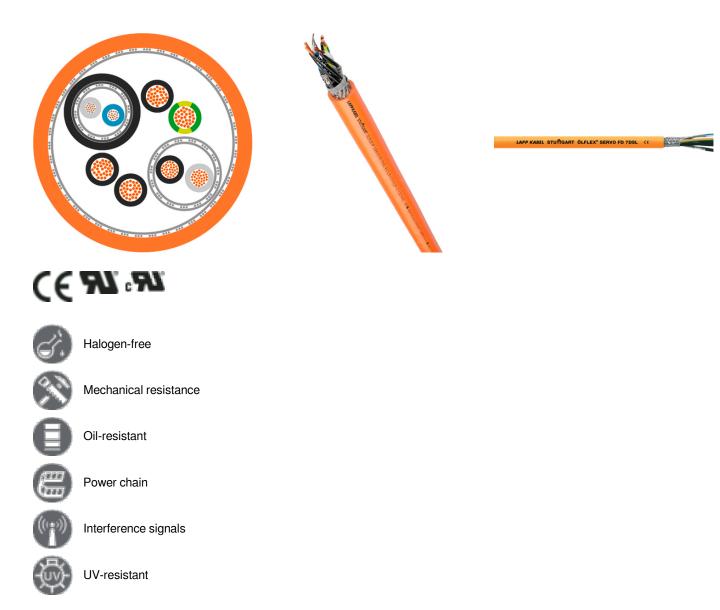
# ÖLFLEX® SERVO FD 7DSL

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



#### **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

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## 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, white	
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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## ÖLFLEX® SERVO FD 7DSL

Protective conductor:

Bending cycles & operation parameters:

Temperature range:

G = with GN-YE protective conductor

See Selection Table A2-1 in the appendix of our online catalogue

Flexing: -40°C to +90°C (UL: +80°C) Fixed installation: -50°C to +90°C (UL: +80°C)

#### 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

HIPERFACE DSL® is a registered trademark of SICK AG, ACURO®link and SCS open link are registered trademarks of Hengstler GmbH

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

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

Article number Hybrid cables for power of 1023275	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Hybrid cables for power of	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
1023276   1023277   1023282   1023273   1023274   1023278   1023279   1023280   1023281	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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