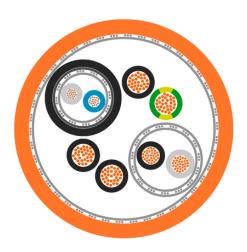


Low capacitive hybrid servo cable with PUR outer sheath for highly dynamic power chain application - certified

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

Last Update (24.04.2024)

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Product Management www.lappkabel.de

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

PN 0456 / 02\_03.16



## 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

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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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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

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