

## ÖLFLEX® SERVO 7DSL

Low capacitive hybrid servo cable with PVC outer sheath for static use - certified for North America

ÖLFLEX® SERVO 7DSL - Hybrid servo DSL cable for fixed installation with UL/cUL AWM.

### Info

One cable solution for servo drives

Suitable for Hiperface DSL® and SCS open link interfaces

EMC-compliant



Oil-resistant



Interference signals

### Benefits

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

Multi-standard certification reduces part varieties and saves costs

Easy to install

### Application range

For fixed installation or applications with occasional movements

Power drive systems in automation engineering

Connecting cable between servo controller and motor

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:

Last Update (23.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## ÖLFLEX® SERVO 7DSL

UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Oil-resistant  
Low-capacitance design  
EMC-optimised design

### Norm references / Approvals

USA: UL AWM Style 2570  
Canada: cUL AWM Style I/II A/B FT1  
UL File No. E63634

### Product Make-up

Fine-wire, bare copper conductor (power cores and control pair) and 7-wire, tinned copper conductor (signal 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  
Tinned-copper braiding  
PVC 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:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5 DSL pair: 7-wired
Minimum bending radius:	For flexible use: 15 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
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -5 °C to +70 °C (UL: +80 °C) Fixed installation: -40 °C to +70 °C (UL: +80 °C)

### Note

Unless specified otherwise, the shown product values are nominal values. 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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## ÖLFLEX® SERVO 7DSL

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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 fixed installation				
1023290	4 G 1,5 + (2 x 22AWG)	11.2	110	194
1023291	4 G 2,5 + (2 x 22AWG)	12.6	148	253
1023292	4 G 4 + (2 x 22AWG)	14	208	332
1023293	4 G 1,5 + (2 x 1,0) + (2 x 22AWG)	13.2	140	250
1023294	4 G 2,5 + (2 x 1,0) + (2 x 22AWG)	14	185	285
1023295	4 G 4 + (2 x 1,0) + (2 x 22AWG)	15.8	248	390

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