

## ÖLFLEX® SERVO FD 796 P

Servo cable with PUR outer sheath for highly dynamic power chain application - certified for North America

ÖLFLEX® SERVO FD 796 P - Servo cable for high dynamic power chain application in harsh conditions with UL/CSA AWM and VDE certification

### Info

Extended Line Performance - Long travel lengths or high acceleration  
AWM certification for USA and Canada  
VDE-tested characteristics



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



UV-resistant

### Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines

Low capacitance design enables longer cable connection between frequency converter and motor

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

Wide temperature range for applications in harsh climatic environments

Multi-standard certification reduces part varieties and saves costs

## ÖLFLEX® SERVO FD 796 P

### Application range

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  
For indoor and outdoor use

### Product features

Flammability:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Halogen-free materials  
Abrasion and notch-resistant  
Oil-resistant

### Norm references / Approvals

VDE - reg - no. 8591 ( $\geq 4G1,5$ )  
UL AWM Style 20234  
cULus AWM I/II A/B, 1000V 80° FT1  
CSA AWM I/II A, 1000V 80° FT1  
UL File No. E63634  
For use in power chains: Please comply with assembly guideline Appendix T3

### Product Make-up

Extra-fine wire strand made of bare copper wires (class 6)  
Core insulation: polypropylene (PP)  
According to P/N individual design: Power cores with one or with two control pair(s), twisted together in short lay length  
Non-woven wrapping  
PUR outer sheath, black (RAL 9005)

### 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 Single-paired versions: black; white Double-paired versions: black with white numbers 5; 6; 7; 8 0,34mm <sup>2</sup> pairs: WH/BN/GN/YE
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage:	Core/Core: 4 kV Core/Screen: 2 kV
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -40°C to +90°C

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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.

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## ÖLFLEX® SERVO FD 796 P

(UL/CSA: +80°C)

Fixed installation: -50°C to +90°C

(UL/CSA: +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)

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.

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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)
ÖLFLEX® SERVO FD 796 P				
0025319	4 G 1,5 + (2 x 1,5)	11.7	99	217
0025320	4 G 2,5 + (2 x 1,5)	13.1	134	270
0025321	4 G 4 + (2 x 1,5)	14.2	195	333
0025322	4 G 6 +(2 x 1,5)	16.0	272	403
0025323	4 G 10 + (2 x 1,5)	18.4	425	581
0025324	4 G 16 + (2 x 1,5)	22.1	656	887
0025326	4 G 0,75 + 2 x (2 x 0,34)	10.9	54	143
0025327	4 G 1,5 + 2 x ( 2 x 0,75)	12.3	103	209
0025328	4 G 2,5 + 2 x (2 x 1,0)	14.3	152	306
0025312	4 G 4 + 2 x (2 x 1,0)	15.4	218	381
0025329	4 G 4 + (2 x 1,0) + (2 x 1,5)	15.6	231	388
0025330	4 G 6 + (2 x 1,0) + (2 x 1,5)	17.1	308	460

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