

## 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<br>ETIM 5.0 Class-Description: Control cable                                                                                                                                                                    |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000104<br>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-;<br>GN/YE protective conductor<br>Single-paired versions: black; white<br>Double-paired versions: black with white numbers 5; 6; 7; 8<br>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<br>Fixed installation: 4 x outer diameter                                                                                                                                                             |
| Nominal voltage:          | IEC U0/U: 600/1000 V<br>UL & CSA: 1000 V                                                                                                                                                                                                    |
| Test voltage:             | Core/Core: 4 kV<br>Core/Screen: 2 kV                                                                                                                                                                                                        |
| Protective conductor:     | G = with GN-YE protective conductor                                                                                                                                                                                                         |
| Temperature range:        | Flexing: -40 °C to +90 °C                                                                                                                                                                                                                   |

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 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.

**ÖLFLEX® SERVO FD 796 P**

| 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            |