


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® SERVO FD 796 P</b>	07.11.2014

High-end servo cable

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

Multi-standard approval reduces part varieties and saves costs

To substitute 3 ÖLFLEX® SERVO FD product lines: -750P/-755P/-795P (with control pair)



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



UV-resistant

#### Info

Extended Line for heavy duty in power chain applications

Unshielded version of ÖLFLEX® SERVO FD 796 CP with control pair(s)

#### 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 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)

#### Norm references / Approvals

VDE - reg - no. 8591 (from 4G1,5)

UL AWM Style 20234


CSA AWM I/II, A 1000V 80° FT 1

For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

Minimum bending radius for flexible use: After consulting, in particular cases, usage at bending factor smaller 7,5 x outer diameter is possible.

UL File No. E63634

Product Management	Document: LAPP_PRO209269EN.pdf	1 / 3
--------------------	--------------------------------	-------

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® SERVO FD 796 P</b>	07.11.2014

### Product features

Dynamic performance in power chains:  
Acceleration up to 50 m/s<sup>2</sup>.  
Travel speeds up to 5 m/s.  
Travel distances up to 100 m.  
Low-capacitance design  
Halogen-free materials  
Flame retardancy:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Oil-resistant

### Remark

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

### Technical Data

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
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	For flexible use: 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC U <sub>0</sub> /U: 600/1000 V UL & CSA: 1000 V
Test voltage:	Core/Core: 4 kV Core/Screen: 4 kV
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -40 °C to +90 °C (UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C)

Product Management	Document: LAPP_PRO209269EN.pdf	2 / 3
--------------------	--------------------------------	-------

**ÖLFLEX® SERVO FD 796 P**

07.11.2014

Part 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	99.0	217
0025320	4 G 2,5 + (2 x 1,5)	13.1	134.0	270
0025321	4 G 4 + (2 x 1,5)	14.2	195.0	333
0025322	4 G 6 +(2 x 1,5)	16.0	272.0	403
0025323	4 G 10 + (2 x 1,5)	18.4	425.0	581
0025324	4 G 16 + (2 x 1,5)	22.1	656.0	887
0025326	4 G 0,75 + 2 x (2 x 0,34)	10.9	54.0	143
0025327	4 G 1,5 + 2 x ( 2 x 0,75)	12.3	103.0	209
0025328	4 G 2,5 + 2 x (2 x 1,0)	14.3	152.0	306
0025312	4 G 4 + 2 x (2 x 1,0)	15.4	218.0	381
0025329	4 G 4 + (2 x 1,0) + (2 x 1,5)	15.6	231.0	388
0025330	4 G 6 + (2 x 1,0) + (2 x 1,5)	17.1	308.0	460