THE WORLD OF LAPP

Cables for power chains







Tested to breaking (or making) point

The new generation of premium cables for highly dynamic applications in power chains is growing



ÖLFLEX[®] SERVO FD/CHAIN

- New premium cables for servo and power chain applications replace eight ÖLFLEX[®] servo cables
- Fewer articles, lower storage costs, better performance, more dynamic
- Attractive price and, and, and...

The family is growing

SERVO FD 798 CP. a These new family members steal the show a thanks to their ability to make fast position s changes in power chains with acceleration t capability of up to 50 m/s², speeds of up to 5 m/s and travel distances of up to 100 S metres. This means that they work noticeably faster and more efficiently than the in power chain cables that have been in use in up to now. They are the perfect addition to

As an accompaniment to the established

ÖLFLEX[®] SERVO FD 796 CP servo cable,

Lapp now presents the unshielded version

ÖLFLEX® SERVO FD 796 P, the 4 and 5-

core connecting cable ÖLFLEX® CHAIN 896

P, and the resolver & encoder cable ÖLFLEX®

up to now. They are the perfect addition to complete the range of highly dynamic servo and connecting cables. The proportional run-up and braking times of this family of cables can be reduced by up to 96% thanks to their excellent acceleration capability.

In short, the new premium cables save time and enable facilities to operate with improved productivity, as well as offering longer service life, taking up less space and weighing less. The new premium cables were developed by the Lapp Group in Stuttgart. Thanks to low-capacitance polyolefin insulation, they offer lower EMCeffective leakage currents while simultaneously providing extremely high dielectric and electrical strength. 796 P and 798 CP are halogen-free, completely flame-retardant and have been granted key approvals such as UL and CSA. VDE registration for the power cables is currently in progress.

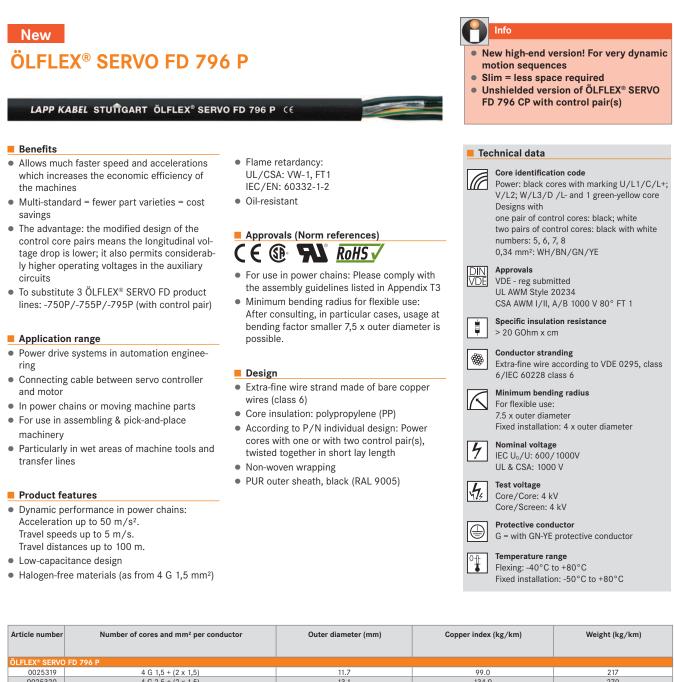
Some time ago, Lapp invested in new power chain cable testing facilities at its in-house test centre, so that it could permanently guarantee the required quality standards. At these facilities, cables are subjected to highly dynamic alternate bending loads. Not only that, but the new testing facilities enable travel speeds of up to 10 m/s and acceleration rates of up to 100 m/s^2 .

Further information (including ordering information) and support for placing product orders can be found at: www.lappkabel.de



Power and control cables

Power chain applications · SERVO applications - power drive systems, approved



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 + (2x 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

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

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

Similar products

ÖLFLEX[®] SERVO FD 796 CP

Accessories

- Protective Cable Conduit Systems and Cable Carrier Systems
- Circular connectors

At a glance – Comparison of product features

ö		nbH Stuttgart Mai	ed products/artic n catalogue 2012/); 9112007 (interna	13 ÖLFLEX® SERVO FD/CHAIN	Substitute
750 P	755 P	785 P	795 P DESINA®	Product features	796 P/896 P
				Nominal voltage 0.6/1 kV (AC) for power cores and control cores	• =
				Increased cross-sections for control cores	• •
	•	•	•	Low-capacitance core insulation	•
			•	UL/CSA AWM certification	•
				VDE registration/certification*	•
•	•	•	•	Polyurethane sheath	•
				Hi.Dyn. version	•
	•	•	•	Travel distance of up to 100 m	•
	•	•	•	Flexible at temperatures as low as -40	•
	•	•		Halogen-free	•
•	•	•	•	Flame-retardant	•
•	•	•	•	Oil-resistant	•

• = fulfilled, \blacksquare = without control cores, *applied for

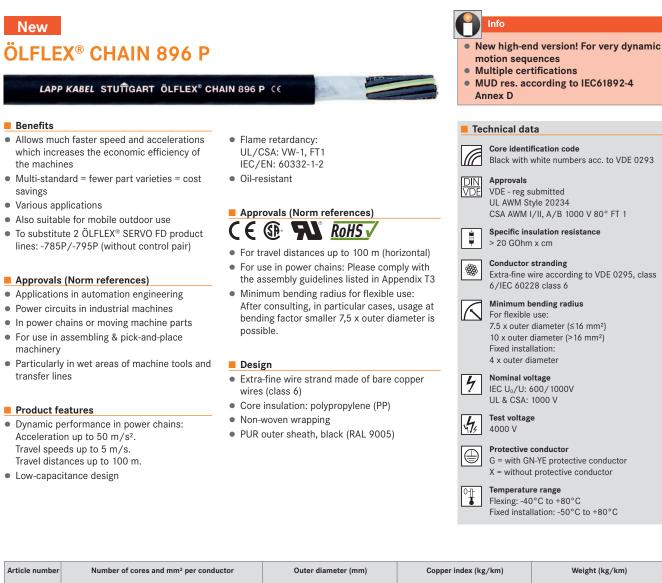
Article numbers for re-coding

	ÖLFLEX	SERVO FD/CHAIN	Substitute						
	750 P	755 P	785 P	795 P DESINA _®	Control unit, pair(s), number of cores x mm ²	Power, number of cores x mm²	Control unit, pair(s), number of cores x mm ²	796 P/ 896 P	
	Art. no.	Art. no.	Art. no.	Art. no.				Art. no.	
		0036601		3028268	2x1.0	4G1.5	2x1.5	0025319	ſ
		0036602		3028269	2x1.0	4G2.5	2x1.5	0025320	
		0036603		3028270	2x1.0	4G4	2x1.5	0025321	
		0036604		3028271	2x1.0	4G6	2x1.5	0025322	control core
		0036605		3028272	2x1.0	4G10	2x1.5	0025323	
Product		0036606			2x1.5	4G16	2x1.5	0025324	Γ
range 796 P	0036240				2x2x0.34	4G0.75	2x2x0.34	0025326	
	0036245	0036350			2x2x0.75	4G1.5	2x2x0.75	0025327	
	0036250	0036351			2x2x0.75	4G2.5	2x2x1.0	0025328	
						4G4	2x2x1.0	0025312	
	0036251				2x0.75+2x1.0	4G4	2x1+2x1.5	0025329	
	0036252	0036353			2x0.75+2x1.0	4G6	2x1+2x1.5	0025330	

The following articles have been removed from the range: 0036253 (4G10+2x0.75+2x1.0), 0036608 (4G35+2x1.5)

Power and control cables

Power chain applications · Harsh conditions, approved



Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHAIN	896 P			
1023229	4 G 1.5	9.2	58.0	120
1023230	5 G 1.5	10.0	72.0	143
1023238	4 G 2.5	11.0	96.0	174
1023239	5 G 2.5	12.0	120.0	210
1023245	4 G 4	12.5	154.0	242
1023246	5 G 4	13.7	192.0	316
1023248	4 G 6	14.3	231.0	335
1023249	5 G 6	15.7	288.0	439
1023250	4 G 10	17.0	384.0	503
1023251	5 G 10	18.9	480.0	663
1023252	4 G 16	21.2	615.0	810
1023253	5 G 16	23.8	768.0	1065
1023254	4 G 25	25.9	960.0	1254
1023255	5 G 25	29.0	1,200.0	1582

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

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

Similar products

- ÖLFLEX[®] FD 855 P
- ÖLFLEX® CHAIN 879

ÖLFLEX[®] SERVO FD 796 P

Accessories

 Protective Cable Conduit Systems and Cable Carrier Systems

At a glance – Comparison of product features

ÖLFLEX® SERVO FD < > Discontinued products/article numbers U.I Lapp GmbH Stuttgart Main catalogue 2012/13 Catalogue no. 91120006 (German); 9112007 (international)								
750 P	755 P	785 P	795 P DESINA®	Product features	796 P/896 P			
				Nominal voltage 0.6/1 kV (AC) for power cores and control cores	• =			
				Increased cross-sections for control cores	• =			
	•	•	•	Low-capacitance core insulation	•			
			•	UL/CSA AWM certification	•			
				VDE registration/certification*	•			
•	•	•	•	Polyurethane sheath	•			
				Hi.Dyn. version	•			
	•	•	•	Travel distance of up to 100 m	•			
	•	•	•	Flexible at temperatures as low as -40	•			
	•	•		Halogen-free	•			
•	•	•	•	Flame-retardant	•			
•	•	•	•	Oil-resistant	•			

● = fulfilled, ■ = without control cores, *applied for

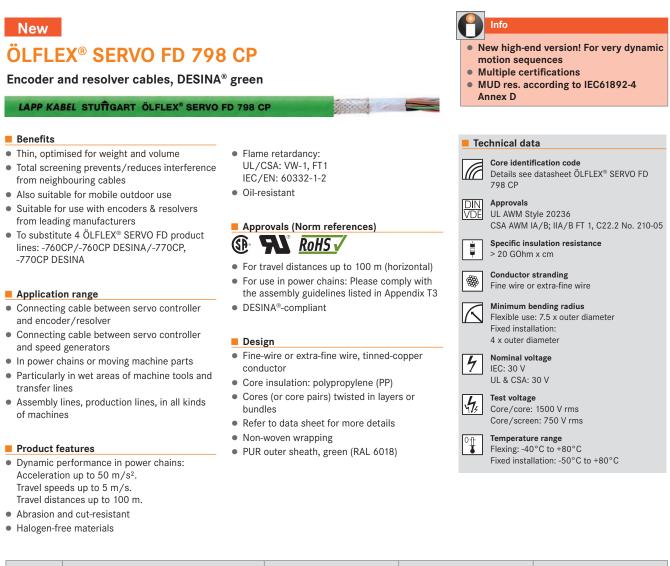
Article numbers for re-coding

	ÖLFLEX® SERVO FD < > Discontinued products/article numbers U.I Lapp GmbH Stuttgart Main catalogue 2012/13 Catalogue no. 91120006 (German); 9112007 (international)										
	750 P	755 P	785 P	795 P DESINA⊛	Control unit, pair(s), number of cores x mm ²	Power, number of cores x mm²	Control unit, pair(s), number of cores x mm ²	796 P/ 896 P			
	Art. no.	Art. no.	Art. no.	Art. no.				Art. no.			
			0036380			4G1.5		1023229			
			0036650			5G1.5		1023230			
			0036381	3028277		4G2.5		1023238			
			0036651			5G2.5		1023239			
			0036382	3028278		4G4		1023245			
			0036652			5G4		1023246			
Product range			0036383	3028279		4G6		1023248			
896 P			0036653			5G6		1023249			
			0036384			4G 10		1023250			
						5G10		1023251			
			0036385	3028281		4G16		1023252			
			0036655			5G16		1023253			
				3028282		4G25		1023254			
			0036656			5G25		1023255			

The following article has been removed from the range: 3028283 (4G35)

Power and control cables

Power chain applications · SERVO applications - power drive systems, approved



Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX [®] SERVO I	FD 798 CP			
0036910	4x2x0,34+4x0,5	8.9	79.0	125
0036911	3x(2x0,14)+2x(0,5)	8.9	70.0	120
0036912	3x(2x0,14)+4x0,14+2x0,5	8.8	68.0	110
0036913	3x(2x0,14)+4x0,14+2x0,5+4x0,22	9.4	80.0	130
0036914	9x0,5	8.8	71.0	110
0036915	4x2x0,25+2x1,0	8.8	63.0	109
0036916	6x2x0,25+2x0,5	10.3	67.0	121
0036917	10x0,14+2x0,5	7.7	41.0	82
0036918	10x0,14+4x0,5	8.1	54.0	98
0036920	4x2x0,14+4x0,5	8.2	51.0	95
0036921	4x2x0,25	7.6	38.0	75
0036923	8x2x0,18	7.8	51.0	85
0036924	4x2x0,18	6.4	30.0	52
0036926	12x0,22	6.9	44.0	73
0036927	4x2x0,25+2x0,5	8.5	62.0	98
0036928	2x2x0,14+2x(2x0,14)+4x0,5+(4x0,14)	9.1	79.0	135
0036929	2x(2x0,25)+2x0,5	8.7	46.0	98
0036930	2x2x0,25+2x0,5	7.3	38.0	72

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils). DESINA® is a registered trademark of the German Machine Tool Builders' Association

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

Similar products

• SERVO cables in acc. to SIEMENS® Standard 6FX 8PLUS

Accessories

- Circular connectors
- SILVYN[®] CHAIN cable protection and guiding systems

At a glance – Comparison of product features

		mbH Stgt. Main	ued products/articl catalogue 2012/13 ı); 9112007 (interna	B ÖLFLEX® SERVO FD	Substitute
760 CP	760 CP DESINA $_{\odot}$	770 CP	770 CP DESINA $_{\odot}$	Product features	798 CP
				Tinned stranded copper wire	•
				Low-capacitance, low-attenuation core insulation	•
•	•	•	•	Minimum bending radius for dynamic use 12 x D	•
				Minimum bending radius for dynamic use 7.5 x D	•
				UL/CSA AWM certification	•
•	•	•	•	Polyurethane sheath	•
				Hi. Dyn. version	•
٠	•	•	•	Travel distance of up to 100 m	•
	•		•	DESINA _® -compliant	•
٠	•	•	•	Halogen-free	•
•	•	•	•	Flame-retardant	•
٠	•	•	•	Oil-resistant	•
	•		•	Sheath colour: Green (RAL 6018)	•
٠		•		Sheath colour: Grey (RAL 7001)	on request

• = fulfilled

Article numbers for re-coding

U.	I Lapp Gmb	H Stgt. Mai	nued product in catalogue an); 9112002	Substitute		dition: High I es for rotary			
760 CP			Structure, number of cores and nominal conductor cross-sections	798 CP	Servo cable in acc. with Siemens® FX8PLUS standard	Servo cable in acc. with Bosch Rexroth [®] INK (Indramat) standard	Servoca- ble in acc. with Lenze® standard	Special encoder/ resolver cables	
Art. no.	Art. no.	Art. no.	Art. no.		Art. no.	Art. no.	Art. no.	Art. no.	Art. no.
			0036642	4x2x0.34+4x0.5	0037910	00277111			
		0036268		3x(2x0.14)+2x(0.5)	0037911	00277121*		7072516*	70388719*
				3x(2x0.14)+4x0.14+2x0.5	0037912	00277131			
		0036269	0036641	3x(2x0.14)+4x0.14+2x0.5+4x0.22	0037913	00277141			
0036260	0036760			9x0.5	0037914		7072402		
		0036270		4x2x0.25+2x1	0037915		7072400		
		0036280		6x2x0.25+2x0.5	0037916				
		0036275		10x0.14+2x0.5	0037917				
		0036277		10x0.14+4x0.5	0037918				
		0036281		4x2x0.14+4x0.5	0037920				70388718
			0036901	4x2x0.25	0037921				
				8x2x0.18	0037923	00277101			
				4x2x0.18	0037924	00277151			
				12x0.22	0037926	00277171			
				4x2x0.25+2x0.5	0037927		7072401		70388731*
			0036640	2x2x0.14+2x(2x0.14)+4x0.5+(4x0.14)	0037928		7072414*		70388721*
				2x(2x0.25)+2x0.5	0037929		7072415		
				2x2x0.25+2x0.5	0037930		7072416		

The following product has been removed from the range: 0036278 (15x0.14+4x0.5); additional variants in preparation. Siemens[®], Bosch Rexroth[®] and Lenze[®] are registered trademarks and are used here for comparison purposes only. *Minor differences in core identification code & design



UNITRONIC[®]

ETHERLINE[®]

HITRONIC[®]

EPIC[®]

SKINTOP[®]

SILVYN[®]

FLEXIMARK[®]



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