Allows much faster speed and accelerations which increases the economic efficiency of the machines
Multi-standard = fewer part varieties = cost savings
Suitable for use with servomotor drive systems from leading manufacturers
The advantage: the modified design of the control core pairs means the longitudinal voltage drop is lower; it also permits considerably higher operating voltages in the auxiliary circuits
To substitute 7 ÖLFLEX® SERVO FD product lines: 755CP/-755CP DESINA/-781CP/-785CP/-785CP DESINA/-790CP/-795CP



Info
New high-end version! For very dynamic motion sequences
Slim = less space required
Multiple certifications

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
Assembly lines, production lines, in all kinds of machines

Design
Extra-fine wire strand made of bare copper wires (class 6)
Core insulation: polypropylene (PP)
Individual design depending on the item: power cores with or without one pair, or with two control core pairs, in pairs, with screening, twisted together in short lay lengths
Non-woven wrapping
Tinned-copper braiding
PUR outer sheath, orange (RAL 2003)

Approvals (Norm references)
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

Product features
Dynamic performance in power chains: Acceleration up to 50 m/s². Travel speeds up to 5 m/s. Travel distances up to 100 m.
Low-capacitance design: this may result in lower EMI interference, depending on the drive's electrical operating conditions.
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
Photographs are not to scale and do not represent detailed images of the respective products.

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Technical Data

Core identification code:	Power: black cores with marking U/L1/C/L+ V/L2 W/L3/D /L- and 1 green-yellow core Optional designs with one pair of control cores: black white Two pairs of control cores: black with white numbers: 5, 6, 7, 8
Approvals:	VDE - Reg. - No. 8591 UL AWM Style 20234 CSA AWM I/II, A/B 1000 V 80° FT 1
Specific insulation resistance:	> 20 GOhm x cm
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 (1.5-16 mm²) 10 x outer diameter (25-50 mm²) Fixed installation: 4 x outer diameter
Nominal voltage:	VDE: power cores and control cores: U_0/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 +80°C Fixed installation: -50°C to +80°C

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Part number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO FD 796 CP				
0027950	4 G 1,5	9.1	79.0	140
0027951	4 G 2,5	10.6	129.0	197
0027952	4 G 4	11.9	186.0	268
0027953	4 G 6	14.5	296.0	397
0027954	4 G 10	17.6	449.0	591
0027955	4 G 16	21.6	716.0	955
0027956	4 G 25	25.2	1073.0	1337
0027957	4 G 35	28.6	1480.0	1769
0027958	4 G 50	33.4	2115.0	2468
0027959	4 G 1,5 + (2 x 1,5)	11.6	135.0	261
0027960	4 G 2,5 + (2 x 1,5)	13.4	188.0	318
0027961	4 G 4 + (2 x 1,5)	14.8	235.0	385
0027962	4 G 6 + (2 x 1,5)	16.8	329.0	486
0027963	4 G 10 + (2 x 1,5)	19.4	515.0	701
0027964	4 G 16 + (2 x 1,5)	23.1	757.0	1048
0027965	4 G 25 + (2 x 1,5)	26.6	1147.0	1532
0027966	4 G 35 + (2 x 1,5)	30.9	1538.0	2097
0027967	4 G 50 + (2 x 1,5)	34.0	2181.0	2721
0027969	4 G 1,5 + 2 x (2 x 0,75)	12.2	159.0	313
0027970	4 G 2,5 + 2 x (2 x 1,0)	14.6	207.0	395
0027980	4 G 4 + 2 x (2 x 1,0)	16.1	274.0	466
0027971	4 G 4 + (2 x 1,0) + (2 x 1,5)	16.3	344.0	485
0027972	4 G 6 + (2 x 1,0) + (2 x 1,5)	18.1	436.0	588
0027973	4 G 10 + (2 x 1,0) + (2 x 1,5)	21.8	610.0	819
0027974	4 G 16 + 2 x (2 x 1,5)	25.5	801.0	1135
0027975	4 G 25 + 2 x (2 x 1,5)	28.8	1187.0	1559
0027976	4 G 35 + 2 x (2 x 1,5)	30.9	1588.0	2093
0027977	4 G 50 + 2 x (2 x 2,5)	36.3	2557.0	2920

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