

New

ÖLFLEX® SERVO FD 796 CP



Info

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

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 796 CP CE



Benefits

- Allows much faster speed and accelerations which increases the economic efficiency of the machines
- Multi-standard= fewer part varieties = cost savings
- Suitable for the most important servomotor drive systems of leading manufacturers.
- Benefit: The modified design of the control pairs brings less voltage drop and allows significant higher working voltage of the associated circuits
- To substitute 7 ÖLFLEX SERVO FD product lines:
755CP/-755CP DESINA/-781CP/-785CP/-785CP DESINA/-790CP/-795CP

Application range

- Connecting cable between servo controller and motor
- In power chains or moving machine parts
- For use in assembling- & pick-and-place machines
- Particularly in wet areas of machine tools and transfer lines.
- For assembly lines, production lines in all kinds of machines

Product features

- Dynamic performance in power chains: Accelerations up to 50m/s². Travel speed: up to 5m/s. Travel lengths up to 100m.

- Low capacitance design: Dependent on electrical operating conditions of the drive, EMI interference levels may be reduced.
- Halogen-free materials
- Flame retardancy: UL/CSA: VW-1, FT1. IEC/EN: 60332.1-2
- Oil resistant

Approvals



- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- Usage under high speed, high acceleration application in Power Chains: Please comply with the relevant articles of the assembly guidelines Appendix T3

Design

- Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation: Polypropylene (PP)
- According P/N individual design: Power cores without, or with one pair. or with two control core pairs arranged as pairs, twisted together in short lay lengths.
- Non-woven wrapping
- Tinned-copper braiding
- Non-woven wrapping
- PUR outer sheath, orange (RAL 2003)

Technical data



Core identification code
Power: black cores with white letters U/L1/C/L+; V/L2; W/L3/D/L-and 1 core gnye
Optional Design with one pair of control cores: black; white. Two pairs of control cores: black with white numbers: 5, 6, 7, 8



Approvals
VDE reg submitted
UL AWM Style 20234
CSA AWM I/II A/B 1000V 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 applications:
7.5 x outside diameter (1,5-16mm²)
10 x outside diameter (25-50mm²)
Fixed installation: 4 x outer diameter



Nominal voltage
IEC: Power and control cores: U0/U:
600/ 1000 V
UL & CSA: 1000V



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

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO FD 796 CP				
0027950	4 G 1,5	9.2	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	14.4	296.0	397
0027954	4 G 10	17.6	449.0	591
0027955	4 G 16	22.0	716.0	955
0027956	4 G 25	25.2	1,073.0	1337
0027957	4 G 35	28.7	1,480.0	1769
0027958	4 G 50	33.4	2,115.0	2468
0027959	4 G 1,5 + (2 x 1,5)	12.0	135.0	261
0027960	4 G 2,5 + (2 x 1,5)	13.8	188.0	318
0027961	4 G 4 + (2 x 1,5)	14.9	235.0	385
0027962	4 G 6 + (2 x 1,5)	17.0	329.0	486

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0027963	4 G 10 + (2 x 1,5)	19.4	515.0	701
0027964	4 G 16 + (2 x 1,5)	23.8	757.0	1048
0027965	4 G 25 + (2 x 1,5)	27.0	1,147.0	1532
0027966	4 G 35 + (2 x 1,5)	31.2	1,538.0	2097
0027967	4 G 50 + (2 x 1,5)	34.7	2,181.0	2721
0027969	4 G 1,5 + 2 x (2 x 0,75)	12.2	151.0	304
0027970	4 G 2,5 + 2 x (2 x 1,0)	14.6	209.0	388
0027971	4 G 4 + (2 x 1,0) + (2 x 1,5)	16.3	336.0	477
0027972	4 G 6 + (2 x 1,0) + (2 x 1,5)	18.1	438.0	580
0027973	4 G 10 + (2 x 1,0) + (2 x 1,5)	21.8	602.0	811
0027974	4 G 16 + 2 x (2 x 1,5)	25.5	794.0	1127
0027975	4 G 25 + 2 x (2 x 1,5)	28.9	1,179.0	1551
0027976	4 G 35 + 2 x (2 x 1,5)	31.4	1,580.0	2085
0027977	4 G 50 + 2 x (2 x 2,5)	36.8	2,249.0	2912

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. 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
- SKINDICHT® EMC/Earthing