ÖLFLEX® SERVO FD 796 P

High-Acceleration Continuous Flex Servo Cable with PUR Jacket; Unshielded

ÖLFLEX® SERVO FD 796 P is specially designed, manufactured, and tested by Lapp for usage in modern high-acceleration cable track applications as well as over long travel lengths.

Construction

Conductors: Extra fine bare copper

Pairs: 1 pair: twisted together; tinned copper braid (85% coverage); 2 pair: laminated foil shield; drain wire; tinned copper braid (85% coverage)

Insulation: Polypropylene

Jacket: Black polyurethane

Recommended Applications

Motor connections between servo controllers and motors on industrial machinery; machine tools, apparatus, assembly handling, production lines, and robotic systems with North American and European approvals

Application Advantage

- High dynamic performance in cable tracks:
  - Acceleration up to 50 m/s²
  - Travel speed up to 5 m/s
  - Travel lengths up to 100 m
- Oil-resistant, halogen-free, and flame-retardant
- Flexes at low temperatures

Approvals

Cable Attributes, see page 659

OR-05	FR-02	CF-04A	MP-05
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- Servo Cables: SIEMENS® Standard 6FX 8 Plus

Complete the Installation

SKINTOP® Strain Relief: page 528

EPIC® Connectors: page 278

Technical Data

Minimum Bend Radius:
- for continuous flexing: 7.5 x cable diameter
- for stationary use: 4 x cable diameter

Temperature Range:
- for continuous flexing: -40°C to +80°C
- for stationary use: -50°C to +80°C

Nominal Voltage:
- UL/CSA: 1000V
- IEC U_0/U: 600/1000V

Test Voltage: 4000V

Conductor Stranding: Class 6 super fine wire

Color Code:
- Power conductors: Black with white print
- Power: Black conductors with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground
- 1 pair: Black & white
- 2 pair: Black with white numbers: 5, 6, 7, 8

Approvals:
- UL: AWM 20234
- Attributes: VW-1
- Canada: cRU AWM FT1
- Additional: VDE Reg. no 8591 (16 AWG & larger)
- CE & RoHS

Part Number	Size / Number of Conductors Power Conductors + Control Pairs	Max. Outer Diameter (inches)	Max. Outer Diameter (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	SKINTOP® MS-M BRUSH Metric Thread
Power Conductors + Control Pairs							
0025319	16 AWG/4c + (16 AWG/1pr)	0.461	11.7	67	146	53112240	53112676
0025320	14 AWG/4c + (16 AWG/1pr)	0.516	13.1	90	181	53112240	53112676
0025321	12 AWG/4c + (16 AWG/1pr)	0.559	14.2	131	224	53112250	53112676
0025322	10 AWG/4c + (16 AWG/1pr)	0.630	16.0	183	271	53112250	53112676
0025323	8 AWG/4c + (16 AWG/1pr)	0.724	18.4	286	390	53112260	53112677
0025324	6 AWG/4c + (16 AWG/1pr)	0.870	22.1	441	596	53112650	53112678
0025326	19 AWG/4c + 2 x (22 AWG/1pr)	0.429	10.9	36	96	53112230	53112676
0025327	16 AWG/4c + 2 x (19 AWG/1pr)	0.484	12.3	69	140	53112240	53112676
0025328	14 AWG/4c + 2 x (18 AWG/1pr)	0.563	14.3	102	206	53112250	53112676
0025312	12 AWG/4c + 2 x (18 AWG/1pr)	0.606	15.4	146	256	53112250	53112676
0025329	12 AWG/4c + (18 AWG/1pr) + (16 AWG/1pr)	0.614	15.6	155	261	53112250	53112676
0025330	10 AWG/4c + (18 AWG/1pr) + (16 AWG/1pr)	0.673	17.1	207	309	53112260	53112677

( ) = shielded pairs

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.