

Power chain applications

Harsh conditions, approved



New

ÖLFLEX® CHAIN 896 P
PP-insulated, numbered, PUR sheath



Info

- New high-end version! For very dynamic motion sequences
- Extended Line for heavy duty in power chain applications

Benefits

- Allows much faster speed and accelerations which increases the economic efficiency of the machines
- Multi-standard = fewer part varieties = cost savings
- Various applications
- Also suitable for mobile outdoor use
- To substitute 2 ÖLFLEX® SERVO FD product lines: -785P/-795P (without control pair)

Application range

- Applications in automation engineering
- Power circuits in industrial machines
- 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 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
- Halogen-free materials
- Flame retardancy: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
- Oil-resistant

Norm references / Approvals

- VDE - reg - no. 8661
- UL AWM Style 20234
- CSA AWM I/II, A/B 1000 V 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 Nr. E63634

Product make-up

- Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation: polypropylene (PP)
- Non-woven wrapping
- PUR outer sheath, black (RAL 9005)

Technical data

- Classification**
ETIM 5.0 Class-ID: EC000104
ETIM 5.0 Class-Description: Control cable
- Core identification code**
Black with white numbers acc. to VDE 0293-1
- 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 (≤16mm²)
10 x outer diameter (>16mm²)
Fixed installation: 4 x outer diameter
- Nominal voltage**
IEC U₀/U: 600/1000 V
UL & CSA: 1000 V
- Test voltage**
4000 V
- Protective conductor**
G = with GN-YE protective conductor
X = without 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)

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	9.6	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 catalogue 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® SERVO FD 796 P refer to page 100

Accessories

- SILVYN® CHAIN cable protection and guiding systems

ÖLFLEX®
UNITRONIC®
ETHERLINE®
HITRONIC®
EPIC®
SKINTOP®
SILVYN®
FLEXIMARK®
ACCESSORIES
APPENDIX