



ÖLFLEX® CHAIN 896 P

Highly flexible, halogen-free power cable with low capacitive insulation and oil resistant PUR sheath - certified

Info

- Extended Line Performance - Long travel lengths or high acceleration
- Good oil resistance
- Rated voltage 0,6/1 kV



Benefits

- Allows much faster speed and accelerations which increases the economic efficiency of the machines
- Multi-standard certification reduces part varieties and saves costs
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Longer cable installation lengths thanks to low mutual capacitance cable design
- Wide temperature range for applications in harsh climatic environments

Application range

- In power chains or moving machine parts
- Applications in automation engineering
- Power circuits in industrial machines
- For use in assembling & pick-and-place machinery
- Particularly in wet areas of machine tools and transfer lines
- For indoor and outdoor use

Product features

- Flammability: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
- Halogen-free materials
- High oil-resistance
- Low-capacitance design
- Flexible down to -40°C

Norm references / Approvals

- VDE - reg - no. 8661 UL AWM Style 20234 cULus AWM I/II A/B, 1000V 80° FT1 CSA AWM I/II A, 1000V 80° FT1
- UL File No. E63634
- For use in power chains: Please comply with assembly guideline Appendix T3

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 (similar RAL 9005)

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000104
ETIM 5.0/6.0 Class-Description: Control cable
- Core identification code**
Black with white numbers acc. to VDE 0293-1
- Conductor stranding**
Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
- Minimum bending radius**
Flexing:
up from 7.5 x outer diameter (up to 16mm²)
up from 10 x outer diameter (from 25mm²)
Fixed installation: 4 x outer diameter
- Nominal voltage**
IEC U0/U: 600/1000 V
UL & CSA: 1000 V
- Bending cycles & operation parameters**
See Selection Table A2-1 in the appendix of our online catalogue
- 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 | 120 |
| 1023230 | 5 G 1.5 | 10 | 72 | 143 |
| 1023238 | 4 G 2.5 | 11 | 96 | 174 |
| 1023239 | 5 G 2.5 | 12 | 120 | 210 |
| 1023245 | 4 G 4 | 12.5 | 154 | 242 |
| 1023246 | 5 G 4 | 13.7 | 192 | 316 |
| 1023248 | 4 G 6 | 14.3 | 231 | 335 |
| 1023249 | 5 G 6 | 15.7 | 288 | 439 |
| 1023250 | 4 G 10 | 17 | 384 | 503 |
| 1023251 | 5 G 10 | 18.9 | 480 | 663 |
| 1023252 | 4 G 16 | 21.2 | 615 | 810 |
| 1023253 | 5 G 16 | 23.8 | 768 | 1065 |
| 1023254 | 4 G 25 | 25.9 | 960 | 1254 |
| 1023255 | 5 G 25 | 29 | 1200 | 1582 |

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. 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 and graphics are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® SERVO FD 796 P refer to page 108

Accessories

- SILVYN® CHAIN cable protection and guiding systems