ÖLFLEX® CHAIN 896 P

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

ÖLFLEX® CHAIN 896 P - Power cable for use in drag chains in harsh environmental conditions with UL/CSA AWM certification

Info

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



- Suitable for outdoor use
- Halogen-free
- Cold-resistant
- Mechanical resistance
- Oil-resistant
- Power chain
- UV-resistant

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

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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
Resistant to oil and drilling fluids according to IEC 61892-4, Appendix D
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:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Core identification code:	Black with white numbers acc. to VDE 0293-334
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 16mm^2) up from 10 x outer diameter (from 25mm^2) Fixed installation: 4 x outer diameter
Nominal voltage:	IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage:	4000 V

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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)
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue

Note

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.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Number of cores and mm² 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 4.0	12.5	154	242
1023246	5 G 4.0	13.7	192	316
1023248	4 G 6.0	14.3	231	335
1023249	5 G 6.0	15.7	288	439
1023250	4 G 10.0	17	384	503
1023251	5 G 10.0	18.9	480	663
1023252	4 G 16.0	21.2	615	810
1023253	5 G 16.0	23.8	768	1065
1023254	4 G 25.0	25.9	960	1254
1023255	5 G 25.0	29	1200	1582

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