

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® CHAIN 896 P	04.04.2014

PP-insulated, numbered, PUR sheath

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)



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



UV-resistant

Info

New high-end version! For very dynamic motion sequences

Extended Line for heavy duty in power chain applications

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

Design

Extra-fine wire strand made of bare copper wires (class 6)

Core insulation: polypropylene (PP)

Non-woven wrapping

PUR outer sheath, black (RAL 9005)

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Norm references / Approvals

VDE - reg - no. 8661

UL AWM Style 20234

CSA AWM I/II, A 1000V 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 No. E63634

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

Remark

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.

Technical Data

Core identification code:	Black with white numbers acc. to VDE 0293-1
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
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 (≤16mm ²) 10 x outer diameter (>16mm ²) Fixed installation: 4 x outer diameter
Nominal voltage:	IEC U ₀ /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)
Alternating bending cycles:	10 mio. cycles

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Part 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	1200.0	1582