

## ÖLFLEX® CHAIN 819 CP

Highly flexible, screened control cable with PVC core insulation and robust, oil resistant outer sheath - certified

ÖLFLEX® CHAIN 819 CP - highly flexible, screened control cable with PVC core insulation and robust, oil-resistant outer sheath of PU-special blend

### Info

Basic Line Performance - Moderate travel lengths or acceleration  
Good oil resistance  
UL/cUL certified for North America



Mechanical resistance



Oil-resistant



Power chain



Interference signals



UV-resistant

### Benefits

Good combination of quality and price

Durable thanks to robust sheath material

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Multi-standard certification reduces part varieties and saves costs

Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers

Copper braiding screens the cable against electromagnetic interference

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### Application range

In power chains or moving machine parts  
In EMC-sensitive environments  
Very suitable for oily wet areas within machinery and production lines  
Assembly lines, production lines, in all kinds of machines  
Suitable for use in measuring, control and regulating circuits  
Indoor applications or dry rooms

### Product features

High oil-resistance  
Flammability:  
IEC/EN: 60332-1-2  
UL/CSA: Horizontal Flame, FT2  
Mechanically robust  
Low-adhesive surface  
EMC-compliant

### Norm references / Approvals

USA: UL AWM Style 21576  
Canada: cUL AWM Style I/II A FT2  
UL File No. E63634  
For use in power chains: Please comply with assembly guideline Appendix T3

### Product Make-up

Fine-wire, bare copper conductor  
Core insulation: PVC  
Cores twisted in layers  
Non-woven wrapping  
Tinned-copper braiding  
Outer sheath of Lapp-PU-Special Blend, black (similar RAL 9005)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	Black with white numbers acc. to VDE 0293-334
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	Flexing: up from 10 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC U0/U: 300/500 V UL: 1000 V
Test voltage:	Core/core: 4000 V Core/screen: 2000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Flexing: -5 °C to +70 °C (UL: +80 °C) Fixed installation: -40 °C to +70 °C (UL: +80 °C)
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue

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### 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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1027900	2 X 0.5	5.8	22.5	42.9
1027901	3 G 0.5	6.1	27.1	50.6
1027902	4 G 0.5	6.6	35.1	62.6
1027903	5 G 0.5	7.1	43.1	74.7
1027904	7 G 0.5	8.5	55.8	101
1027905	12 G 0.5	10	83.1	144.5
1027906	18 G 0.5	11.8	120	207.1
1027907	25 G 0.5	14.1	171	288.6
1027910	2 X 0.75	6.2	30.4	52.7
1027911	3 G 0.75	6.6	37.5	63.4
1027912	4 G 0.75	7.1	47.9	78
1027913	5 G 0.75	7.7	55.2	90.4
1027914	7 G 0.75	9.1	75.9	126.1
1027915	12 G 0.75	10.9	115.3	183.6
1027916	18 G 0.75	13	168	269.8
1027917	25 G 0.75	15.6	239.6	377
1027920	2 X 1.0	6.5	35.3	58.5
1027921	3 G 1.0	6.9	44.7	71.6
1027922	4 G 1.0	7.5	57.7	89.4
1027923	5 G 1.0	8.3	70.3	110.2
1027924	7 G 1.0	9.8	92.7	149.2
1027925	12 G 1.0	11.7	148.7	224.4
1027926	18 G 1.0	14	224.1	331.3
1027927	25 G 1.0	16.7	299.5	449.2
1027930	2 X 1.5	7.1	47.9	73.8
1027931	3 G 1.5	7.5	62.5	92.6
1027932	4 G 1.5	8.4	80	118.9
1027933	5 G 1.5	9.1	97.5	142.7
1027934	7 G 1.5	10.9	129.7	194.9
1027935	12 G 1.5	13.3	211	301.9
1027936	18 G 1.5	15.7	319	447.8
1027937	25 G 1.5	18.7	428.1	606.5
1027940	3 G 2.5	9	97.4	138.9
1027941	4 G 2.5	10.1	124.8	178.2

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1027944	5 G 2.5	11.2	148.7	215.4
1027942	7 G 2.5	13.5	206.5	301.6
1027943	12 G 2.5	16.2	347.5	478.5
1027950	4 G 4.0	11.9	187	256.1
1027952	4 G 10.0	18.2	452.1	606.5
1027955	4 G 16.0	21.3	699.5	884.2
1027957	4 G 25.0	26.3	1,062.1	1,349.7

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