

## ÖLFLEX® CHAIN 809 SC

Highly flexible, single core cable with PVC insulation and PVC sheath - certified for North America

ÖLFLEX® CHAIN 809 SC - Single core power cable for versatile use in power chains with UL/cUL AWM certification

### Info

Basic Line Performance - Moderate travel lengths or acceleration

Rated voltage 0,6/1 kV

AWM certification for USA and Canada



Oil-resistant



Power chain



Torsion-resistant



UV-resistant

### Benefits

Multi-standard certification reduces part varieties and saves costs

Multifunctional application possibilities

Under consideration of the temperature range also suitable for flexible outdoor use

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

### Application range

In power chains or moving machine parts

For internal wiring of electric and electronic equipment in switch cabinets

Specially designed for power circuits of servomotors driven by frequency converters

This cable can substitute multi-core power cables where space requirements or minimum bending radii cause problems

Test systems in the automotive industry, vehicles and stationary fuel cell systems

Last Update (01.09.2020)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## ÖLFLEX® CHAIN 809 SC

### Product features

Flammability:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Oil-resistant according to DIN EN 50290-2-22 (TM54)  
Low-adhesive surface

### Norm references / Approvals

Based on VDE 0250 / 0285  
UL-AWM-Style 10107  
cRU AWM II A/B FT1  
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  
PVC outer sheath, black (similar RAL 9005)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Core identification code:	Black or green-yellow, other colours available on request
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Torsion movement in WTG:	TW-0 & TW-1, refer to Appendix T0
Minimum bending radius:	Flexing: up from 10 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC: $U_0/U$ 600/1000 V UL & CSA: 600 V
Test voltage:	4000 V
Temperature range:	Flexing: 0 °C to +70 °C (UL: +90 °C) Fixed installation: -40 °C to +70 °C (UL: +90 °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](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	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHAIN 809 SC					
1062900	6	7.4	green-yellow	57.6	101
1062901	6	7.4	black	57.6	101
1062902	10	9	green-yellow	96	158
1062903	10	9	black	96	158
1062904	16	9.9	green-yellow	153.6	217
1062905	16	9.9	black	153.6	217
1062906	25	11.3	green-yellow	240	307
1062907	25	11.3	black	240	307
1062908	35	13.1	green-yellow	336	427
1062909	35	13.1	black	336	427
1062910	50	15.9	green-yellow	480	611
1062911	50	15.9	black	480	611
1062912	70	17.6	green-yellow	672	778
1062913	70	17.6	black	672	778
1062914	95	19.8	green-yellow	912	1015
1062915	95	19.8	black	912	1015
1062916	120	23	green-yellow	1152	1296
1062917	120	23	black	1152	1296
1062918	150	24.8	green-yellow	1440	1597
1062919	150	24.8	black	1440	1597
1062920	185	27.1	green-yellow	1776	1971
1062921	185	27.1	black	1776	1971
1062922	240	30.6	green-yellow	2304	2419
1062923	240	30.6	black	2304	2419

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