

ÖLFLEX® CHAIN 809 SC CY

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

ÖLFLEX® CHAIN 809 SC – power and control cable for varied applications in power chains with UL/cUL AWM certification.

Info

Basic Line for light to medium stress in power chains

AWM certification for USA and Canada

EMC-compliant copper shielding



UV-resistant



Torsion-resistant



Interference signals



Power chain



Oil-resistant

Benefits

Multi-standard certification reduces part varieties and saves costs

Easy to install

Versatile application possibilities

Also suitable for flexing outdoor use due to the temperature range

Copper braiding complies with EMC requirements and screens the cable against electromagnetic interference

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Application range

In power chains or mobile machine parts

For internal wiring of electric and electronic components in switch cabinets

Where using multi-core, shielded motor cables may be problematic due to space requirements or minimum bending radii

Specially designed for power circuits of servomotors driven by frequency converters

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

Product features

Designed for 2 million alternating bending cycles and travel distances up to 10 metres

Flame retardance:

UL/CSA: VW-1, FT1

IEC/EN: 60332-1-2

Oil-resistant according to DIN EN 50290-2-22 (TM54)

Low-adhesive surface

EMC-compliant

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

Design

Fine-wire, bare copper conductor

Core insulation: PVC

Fleece wrapping

Tin-plated copper braiding

Fleece wrapping

PVC sheath, black (RAL 9005)

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Power cable
Core identification code:	black, other colours are available upon request
Insulation-specific contact resistance:	> 20 GOhm x cm
Conductor design:	Fine wire according to VDE 0295 class 5 / IEC 60228 class 5
Minimum bending radius:	Flexing: 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
Protective conductor:	X = without protective conductor
Temperature range:	Flexing: 0 °C to +70 °C (UL: +90 °C) Fixed installation: -40 °C to +70 °C (UL: +90 °C)
Alternating bending cycles:	2 million cycles

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Note

Unless specified otherwise, the shown product values are nominal values at room temperature. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

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

Photographs 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 (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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1062940	6	8.1	76	126
1062941	10	9.7	122	190
1062942	16	10.6	180	250
1062943	25	12	268	351
1062944	35	14.8	392	519
1062945	50	16.8	544	686
1062946	70	18.5	766	885
1062947	95	20.9	1020	1135
1062948	120	24.1	1272	1443
1062949	150	26.1	1593	1788
1062950	185	28.4	1941	2177
1062951	240	31.9	2518	2671
1062952	300	33.5	3116	3299

Last Update (23.03.2017)

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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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