

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® CHAIN 809 SC CY	05.11.2015

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

Multi-standard certification reduces part varieties and saves costs

Easy to install

Multifunctional application possibilities

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

Copper braiding screens the cable against

electromagnetic interference



Oil-resistant



Power chain



Interference signals



Torsion-resistant



UV-resistant

Info

Basic Line for light & ordinary duty in power chain applications

AWM certification for USA and Canada

EMC compliant copper screening

Application range

In power chains or moving machine parts

For internal wiring of electric and electronic equipment in switch cabinets

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

Specially designed for power circuits of servomotors driven by frequency converters

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

Product Make-up

Fine-wire, bare copper conductor

Core insulation: PVC


Non-woven wrapping

Tinned-copper braiding

Non-woven wrapping

PVC outer sheath, black (RAL 9005)

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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 features

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

Flammability:

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

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 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

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 are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	Black, other colours are available upon request
Specific insulation resistance:	$> 20 \text{ G}\Omega \cdot \text{m}$
Conductor stranding:	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)

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Part number	Conductor cross-section (mm²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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1062940	6	8.1	76.0	126
1062941	10	9.7	122.0	190
1062942	16	10.6	180.0	250
1062943	25	12.0	268.0	351
1062944	35	14.8	392.0	519
1062945	50	16.8	544.0	686
1062946	70	18.5	766.0	885
1062947	95	20.9	1020.0	1135
1062948	120	24.1	1272.0	1443
1062949	150	26.1	1593.0	1788
1062950	185	28.4	1941.0	2177
1062951	240	31.9	2518.0	2671
1062952	300	33.5	3116.0	3299