

ÖLFLEX® CHAIN 809

Highly flexible control cable with PVC core insulation and PVC sheath – certified for North America

ÖLFLEX® CHAIN 809 - power and control cable for versatile use 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



Torsion-resistant



Power chain



Oil-resistant

Benefits

Good combination of quality and price

Compact design

Multi-standard certification reduces part varieties and saves costs

Ideal for export-oriented machinery and equipment manufacturers

Application range

In power chains or mobile machine parts

In dry, damp and wet interiors

Suitable for use in measuring, control and regulating circuits

Wiring machines, devices, and control cabinets

Only for outdoor use within the indicated operating temperature range and with UV-protection

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Product features

Designed for 2 million alternating bending cycles and travel distances up to 10 metres
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)
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

Norm references / Approvals

UL AWM Style 20886
cUL 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 strand
Core insulation: PVC
Cores twisted in layers
Fleece wrapping
PVC sheath, grey (RAL 7001)

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	Black with white numbers acc. to VDE 0293-1
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:	For flexible use: Chains in self-supporting non-gliding arrangements: 10 x outer diameter In chains in gliding arrangements: 12 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	VDE: U ₀ /U: 300/500 V UL & CSA: 1000 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Flexing: VDE 0°C to +70°C UL 0°C to +80°C Fixed installation: VDE -40°C to +70°C; UL/CSA -40°C to +80°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.

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

Packaging: Ring 100 m; drum (500; 1000) m

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	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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1026700	2 X 0.5	5.2	10	40
1026701	3 G 0.5	5.5	15	48
1026702	4 G 0.5	6	20	58
1026703	5 G 0.5	6.5	24	67
1026704	7 G 0.5	7.7	34	88
1026705	12 G 0.5	9.2	58	136
1026706	18 G 0.5	11	87	195
1026707	25 G 0.5	13.3	120	274
1026708	2 X 0.75	5.6	15	49
1026709	3 G 0.75	6	22	60
1026710	4 G 0.75	6.5	29	73
1026711	5 G 0.75	7.1	37	86
1026712	7 G 0.75	8.5	51	117
1026713	12 G 0.75	10.3	87	181
1026714	18 G 0.75	12.2	130	259
1026715	25 G 0.75	14.8	181	363
1026716	2 X 1	5.9	19	58
1026717	3 G 1	6.3	29	72
1026718	4 G 1	6.9	39	88
1026719	5 G 1	7.5	48	104
1026720	7 G 1	9	67	142
1026721	12 G 1	10.9	115	221
1026722	18 G 1	13.2	173	324
1026723	25 G 1	15.7	240	445
1026724	2 X 1.5	6.5	29	74
1026725	3 G 1.5	6.9	43.2	93
1026726	4 G 1.5	7.6	58	114
1026727	5 G 1.5	8.5	72	139
1026728	7 G 1.5	10.3	101	189
1026729	12 G 1.5	12.3	173	295
1026730	18 G 1.5	14.9	259	429
1026731	25 G 1.5	17.9	360	597
1026732	3 G 2.5	8.4	72	145

Last Update (19.06.2017)

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Product Management www.lappkabel.deYou can find the current technical data in the corresponding data sheet.
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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1026733	4 G 2.5	9.3	96	179
1026734	7 G 2.5	12.7	168	218
1026737	4 G 4	11.1	160	266

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