

ÖLFLEX® CHAIN 809 CY

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

ÖLFLEX® CHAIN 809 CY - Screened power and control cable for versatile use in power chains with UL/cUL AWM certification

Info

Basic Line for light & ordinary duty in power chain applications

AWM certification for USA and Canada

EMC compliant copper screening



Torsion-resistant



Interference signals



Power chain



Oil-resistant

Benefits

Good combination of quality and price

Thin and light, without inner sheath

Multi-standard certification reduces part varieties and saves costs

Ideal for export-oriented machinery and equipment manufacturers thanks to high normative acceptance by the North American NEC (National Electrical Code)

Copper screening complies with EMC requirements and protects against electromagnetic interference

ÖLFLEX® CHAIN 809 CY

Application range

In power chains or moving machine parts

In EMC-sensitive environments

Suitable for use in measuring, control and regulating circuits

Wiring of machines, tools, devices, appliances and control cabinets

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

Product features

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

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

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

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

Non-woven wrapping

Tinned-copper braiding

PVC outer sheath, grey (similar RAL 7001)

ÖLFLEX® CHAIN 809 CY

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: U0/U: 300/500 V UL & CSA: 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: 0 °C to +70 °C (UL/CSA: +80 °C) Fixed installation: -40 °C to +70 °C (UL/CSA +80 °C)
Bending cycles:	2 mio. cycles

Note

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

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

Packaging size: Coil 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.

**ÖLFLEX® CHAIN 809 CY**

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHAIN 809 CY				
1026751	2 X 0.5	5.8	36	45
1026752	3 G 0.5	6.1	43	59
1026753	4 G 0.5	6.6	49	83
1026754	5 G 0.5	7.1	57	96
1026755	7 G 0.5	8.5	69	136
1026756	12 G 0.5	10	104	200
1026757	18 G 0.5	11.8	141	275
1026758	25 G 0.5	14.1	211	350
1026759	2 X 0.75	6.2	43	56
1026760	3 G 0.75	6.6	52	70
1026761	4 G 0.75	7.1	61	95
1026762	5 G 0.75	7.7	72	130
1026763	7 G 0.75	9.1	89	168
1026764	12 G 0.75	10.9	138	232
1026765	18 G 0.75	13	211	315
1026766	25 G 0.75	15.6	280	435
1026767	2 X 1	6.5	51	84
1026768	3 G 1	6.9	62	110
1026769	4 G 1	7.5	74	130
1026770	5 G 1	8.3	88	156
1026771	7 G 1	9.8	112	192
1026772	12 G 1	11.7	185	285
1026773	18 G 1	14	268	395
1026774	25 G 1	16.7	354	486
1026775	2 X 1.5	7.1	65	97
1026776	3 G 1.5	7.5	82	125
1026777	4 G 1.5	8.4	100	165
1026778	5 G 1.5	9.1	119	193
1026779	7 G 1.5	10.9	154	245
1026780	12 G 1.5	13.3	268	365
1026781	18 G 1.5	15.7	373	553
1026782	25 G 1.5	18.7	530	734
1026783	3 G 2.5	9	118	188

Last Update (23.07.2017)

©2017 Lapp Group - Technical changes reserved

Product Management www.lappkabel.deYou can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03_16



ÖLFLEX® CHAIN 809 CY

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1026784	4 G 2.5	10.1	147	236
1026785	7 G 2.5	13.5	253	340
1026788	4 G 4	11.9	248	305

Last Update (23.07.2017)

©2017 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03_16