

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 Performance - Moderate travel lengths or acceleration

AWM certification for USA and Canada

EMC compliant copper screening



Oil-resistant



Power chain



Interference signals



Torsion-resistant

Benefits

Good combination of quality and price

Thin and light, without inner sheath

Multi-standard certification reduces part varieties and saves costs

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

Copper screening complies with EMC requirements and protects against electromagnetic interference

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

Last Update (27.04.2024)

©2024 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

ÖLFLEX® CHAIN 809 CY

Assembly and production lines

Product features

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

EMC-compliant

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)

Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000104

ETIM 5.0 Class-Description: Control cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC000104

ETIM 6.0 Class-Description: Control cable

Core identification code:

Black with white numbers acc. to VDE 0293-334

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:

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 & 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)

Last Update (27.04.2024)

©2024 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

ÖLFLEX® CHAIN 809 CY

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 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.

ÖLFLEX® CHAIN 809 CY

Article number	Number of cores and mm² 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 1.0	6.5	51	84
1026768	3 G 1.0	6.9	62	110
1026769	4 G 1.0	7.5	74	130
1026770	5 G 1.0	8.3	88	156
1026771	7 G 1.0	9.8	112	192
1026772	12 G 1.0	11.7	185	285
1026773	18 G 1.0	14	268	395
1026774	25 G 1.0	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

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 4.0	11.9	248	305