

## 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

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Product Management [www.lappkabel.de](http://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<br>ETIM 5.0 Class-Description: Control cable                               |
| Classification ETIM 6:                 | ETIM 6.0 Class-ID: EC000104<br>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<br>Fixed installation: 4 x outer diameter                         |
| Nominal voltage:                       | VDE: U0/U: 300/500 V<br>UL & CSA: 1000 V   |
| Test voltage:                          | Core/core: 4000 V<br>Core/screen: 2000 V   |
| Protective conductor:                  | G = with GN-YE protective conductor<br>X = without protective conductor                                |
| Temperature range:                     | Flexing: 0 °C to +70 °C<br>(UL/CSA: +80 °C)<br>Fixed installation: -40 °C to +70 °C<br>(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)

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## ÖLFLEX® CHAIN 809 CY

are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://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 mm <sup>2</sup> 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            |

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|----------------|---|---------------------|----------------------|----------------|
| 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            |

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