## 1026700

## DATA SHEET





## **Application**

valid from:

24.05.2024

ÖLFLEX® CHAIN 809 cables are high-flexible PVC power and control cables designed for the European, North American and Canadian market, for flexible use and fixed installation under light or medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature. They are especially suitable for basic requirements (Basic Line) in power chains and in permanently moved machine parts. They are suitable for linear, automated movements. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

## Application range:

Power chains or moving machine parts, measuring, control and regulation circuits, wiring of machines, tools, devices, appliances and control cabinets.

USE acc. to **N**: External interconnection or internal wiring of electronic equipment.

USE acc. to : Cables for internal or external interconnection with or without mechanical abuse.

Design

Design acc. to UL 758 AWM Style 20886, CSA C22.2 No. 210

based on EN 50525-2-51

Certification € AWM Style 20886 (File No. E63634)

AWM I/II A/B (File No. E63634)

EN 13501-6 and EN 50575 Classification of fire behaviour

(article/dimension range see www.lappkabel.com/cpr)

Conductor fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, Class 5

Insulation PVC compound (UL/CSA 80 °C rating)

acc. to VDE 0293-1, with or without GN/YE ground conductor Core identification code

black cores with white numbers acc. to EN 50334

Wrapping non-woven wrapping

Outer sheath PVC compound (UL/CSA 80 °C rating)

colour: grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage EN: U<sub>0</sub>/U: 300/500 V UL/CSA: 1000 V Rated voltage

4000 V AC Test voltage core / core:

Mechanical and thermal properties

up from 10 x outer diameter Minimum bending radius flexing:

fixed installation: 4 x outer diameter

flexing (EN): 0 °C up to +70 °C max. conductor temperature Temperature range

> flexing (UL/CSA): 0 °C up to +80 °C max. conductor temperature -40 °C up to +80 °C max. conductor temperature fixed installation (EN): fixed installation (UL/CSA): up to +80 °C max. conductor temperature

Bending cycles and power chain

See Selection Table A2-1 in the appendix of our online catalogue

For use in power chains: Please comply with assembly guideline Appendix T3 operation parameters

Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL Cable Flame Test acc. to UL 1581 §1061

UL VW-1 acc. to UL 1581 § 1080

CSA FT1 acc. to CSA C22.2 No. 2556, § 9.3

Oil resistance TM54 acc. to EN 50290-2-22

**Tests** acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

UL 1581 und CSA C22.2 No. 210

General requirements These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

A part of these cables (see www.lappkabel.com/cpr) are classified acc. to the EU-Regulation no.

305/2011 (CPR)

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valid from: 24.05.2024	ÖLFLEX® CHAIN 809	WLAPP

**Environmental information** 

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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