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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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)

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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.

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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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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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Article number	Number of cores and mm² 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

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