

ÖLFLEX® CHAIN 90 CP

Highly flexible, screened single core power cable with abrasion and oil resistant PUR sheath - certified for North America

ÖLFLEX® CHAIN 90 CP - Oil resistant and screened power cable for harsh conditions in power chains with UL/cUL AWM certification.

Info

Extended Line Performance - Long travel lengths or high acceleration

Allrounder for indoor and outdoor use

Improved characteristics in the event of a fire



Suitable for outdoor use



Flame-retardant



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



Power chain



Interference signals

Last Update (18.12.2024)

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

PN 0456 / 02_03.16

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UV-resistant

Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines
Increased durability under harsh conditions thanks to robust PUR outer sheath
Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
Wide temperature range for applications in harsh climatic environments
Longer cable installation lengths thanks to low mutual capacitance cable design
Copper screening complies with EMC requirements and protects against electromagnetic interference

Application range

In power chains or moving machine parts
For internal wiring of electric and electronic equipment in switch cabinets
Specially designed for power circuits of servomotors driven by frequency converters
This cable can substitute screened multi-core motor cables where space requirements or minimum bending radii cause problems
Test systems in the automotive industry, vehicles and stationary fuel cell systems
For indoor and outdoor use

Product features

Flammability:
- Halogen-free acc. to VDE 0472-815
- Flame retardant acc. to IEC 60332-1-2 or
UL/cUL VW-1, FT1
- No flame propagation acc. to
IEC 60332-3-24 Cat. C or /-25 Cat. D
Good weather, UV and oil resistance
Flexible at low temperatures
Low-capacitance design
EMC-compliant

Norm references / Approvals

DNV GL approved
USA: UL AWM Style 11624, VW-1
Canada: cUL AWM I/II A, FT1
UL File No. E63634
For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

Extra-fine wire strand made of bare copper wires (class 6)
Core insulation: TPE compound
Non-woven wrapping
Tinned-copper braiding
PUR outer sheath, black (similar RAL 9005)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Core identification code:	Black, other colours are available upon request

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Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 3 x outer diameter
Nominal voltage:	IEC: U ₀ /U 600/1000 V UL & CSA: 1000 V
Test voltage:	4000 V
Temperature range:	Flexing: -35 °C to +80 °C Fixed installation: -50 °C to +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) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

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

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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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Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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1026547	1.5	7	23.8	60
1026548	2.5	7.6	41	90
1026549	4	7.9	58.8	100
1026550	6	8.4	81.3	120
1026551	10	9.8	123	180
1026553	16	11.3	187.7	240
1026555	25	13	280.6	340
1026557	35	14.2	398.9	480
1026559	50	16.8	551.7	610
1026561	70	19.1	773.2	880
1026563	95	21.6	1,036.6	1160
1026565	120	23.6	1,277.7	1380
1026567	150	25.9	1618	1670
1026569	185	28.5	1,957.3	1980
1026571	240	33.4	2,511.7	2600
1026573	300	35.3	3117	3210

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