

ÖLFLEX® CHAIN 90 CP

Highly flexible, shielded single core cable with abrasion and oil resistant PUR sheath – certified for North America

ÖLFLEX® CHAIN 90 CP - oil-resistant and shielded power cable for harsh conditions in power chains, UL/cUL AWM.

Info

Extended line for high loads in power chains

All-rounder for indoor and outdoor use

Improved characteristics in the event of a fire



UV-resistant



Interference signals



Power chain



Oil-resistant



Mechanical resistance



Halogen-free



Suitable for outdoor use



Flame-retardant

ÖLFLEX® CHAIN 90 CP



Cold-resistant

Benefits

Allows much faster motion sequences which increases the economic efficiency of machines

Durable under harsh conditions thanks to robust PUR sheath material

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 installation lengths thanks to low capacitance cable design

Copper shielded complies with EMC requirements and protects against electromagnetic interference

Application range

In power chains or mobile machine parts

For internal wiring of electric and electronic components in switch cabinets

Specially designed for power circuits of servomotors driven by frequency converters

Where using multi-core, shielded motor cables may be problematic due to space requirements or minimum bending radii

Test systems in the automotive industry, vehicles and stationary fuel cell systems

For indoor and outdoor use

Product features

Designed for 10 million alternating bending cycles and horizontal travel distances up to 100 metres

Fire behaviour:

- Halogen-free according to VDE 0472-815

- Flame retardant according to IEC

60332-1-2 or UL/cUL VW-1, FT1

- No flame propagation according to IEC 60332-3-24 Cat. C or /-25 Cat. D

Good weather, UV and oil resistance

Flexible at cold temperatures

Low-capacitance design

EMC-compliant

Norm references / approvals

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

Design

Extra-fine wire strand made of bare copper wires (class 6)

Core insulation made of TPE compound

Fleece wrapping

Tin-plated copper braiding

Polyurethane sheath, black (RAL 9005)

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Technical Data

Classification:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Power cable
Core identification code:	black, other colours are available upon request
Conductor design:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	For flexible use: 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
Alternating bending cycles:	10 million cycles

Note

Unless specified otherwise, the shown product values are nominal values at room temperature. You can receive further values, such as tolerances, upon request if they available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

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

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

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

Photographs 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

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Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHAIN 90 CP				
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

Last Update (04.05.2017)

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Product Management www.lappkabel.de

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

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