

ÖLFLEX® CHAIN 90 P

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

ÖLFLEX® CHAIN 90 P - oil-resistant power cable for harsh conditions in power chains with UL/cUL AWM certification.

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



Power chain



Oil-resistant



Mechanical resistance



Halogen-free



Suitable for outdoor use



Flame-retardant



Cold-resistant

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Benefits

Allows much faster motion sequences which increases the economic efficiency of machines
Multi-standard certification reduces part varieties and saves costs
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

Application range

In power chains or mobile machine parts
For internal wiring of electric and electronic components in switch cabinets
Where using multi-core connection cables may be problematic due to space requirements or minimum bending radii
Specially designed for power circuits of servomotors driven by frequency converters
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
Abrasion-resistant and notch-resistant
Flexible at cold temperatures
Low-capacitance design

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
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 or green-yellow, other colours available on request |
| Conductor design: | Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6 |
| Torsion application in WTG: | TW-0 & TW-2, refer to appendix T0 |
| Minimum bending radius: | Flexing: 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 |
| Protective conductor: | G = with GN-YE protective conductor X = without protective conductor |
| 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 are 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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| Article number | Conductor cross-section (mm ²) | Outer diameter [mm] | Core colour | Copper index (kg/km) | Weight (kg/km) |
|--------------------|--|---------------------|--------------|----------------------|----------------|
| ÖLFLEX® CHAIN 90 P | | | | | |
| 1026513 | 1.5 | 6.3 | green-yellow | 14.4 | 48 |
| 1026514 | 1.5 | 6.3 | black | 14.4 | 48 |
| 1026515 | 2.5 | 6.9 | green-yellow | 24 | 63 |
| 1026516 | 2.5 | 6.9 | black | 24 | 63 |
| 1026517 | 4 | 7.2 | green-yellow | 38.4 | 77 |
| 1026518 | 4 | 7.2 | black | 38.4 | 77 |
| 1026519 | 6 | 7.7 | green-yellow | 57.6 | 95 |
| 1026520 | 6 | 7.7 | black | 57.6 | 95 |
| 1026521 | 10 | 9.1 | green-yellow | 96 | 145 |
| 1026522 | 10 | 9.1 | black | 96 | 145 |
| 1026523 | 16 | 10.6 | green-yellow | 153.6 | 205 |
| 1026524 | 16 | 10.6 | black | 153.6 | 205 |
| 1026525 | 25 | 12.3 | green-yellow | 240 | 290 |
| 1026526 | 25 | 12.3 | black | 240 | 290 |
| 1026527 | 35 | 13.3 | green-yellow | 336 | 413 |
| 1026528 | 35 | 13.3 | black | 336 | 413 |
| 1026529 | 50 | 15.9 | green-yellow | 480 | 535 |
| 1026530 | 50 | 15.9 | black | 480 | 535 |
| 1026531 | 70 | 18 | green-yellow | 672 | 776 |
| 1026532 | 70 | 18 | black | 672 | 776 |
| 1026533 | 95 | 19.9 | green-yellow | 912 | 998 |
| 1026534 | 95 | 19.9 | black | 912 | 998 |
| 1026535 | 120 | 22.5 | green-yellow | 1152 | 1249 |
| 1026536 | 120 | 22.5 | black | 1152 | 1249 |
| 1026537 | 150 | 24.6 | green-yellow | 1440 | 1486 |
| 1026538 | 150 | 24.6 | black | 1440 | 1486 |
| 1026539 | 185 | 27.2 | green-yellow | 1776 | 1788 |
| 1026540 | 185 | 27.2 | black | 1776 | 1788 |
| 1026541 | 240 | 32.1 | green-yellow | 2304 | 2381 |
| 1026542 | 240 | 32.1 | black | 2304 | 2381 |
| 1026543 | 300 | 34 | green-yellow | 2880 | 2964 |
| 1026544 | 300 | 34 | black | 2880 | 2964 |

Last Update (06.05.2017)

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Product Management www.lappkabel.deYou can find the current technical data in the corresponding data sheet.
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