ÖLFLEX® CHAIN 90 P

Highly flexible single core power 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 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
- UV-resistant

Benefits

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

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 multi-core power 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
Abrasion and notch-resistant
Flexible at low temperatures
Low-capacitance design

Norm references / Approvals

DNV GL approved
UL File No. E63634
USA: UL AWM Style 11624, VW-1
Canada: cUL AWM I/II A, FT1
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
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 or green-yellow, other colours available on request
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 3 x outer diameter

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Nominal voltage:	IEC: U_0/U 600/1000 V UL & CSA: 1000 V
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue
Test voltage:	4000 V
Temperature range:	Flexing: -35 °C to +80 °C Fixed installation: -50 °C to +80 °C

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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PRODUCT INFORMATION

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

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