

## ÖLFLEX® CHAIN PN

Highly flexible, PROFINET-compliant power cable - certified for North America

ÖLFLEX® CHAIN PN - PROFINET-compliant power cable for versatile use in power chains with UL/cUL AWM certification

### Info

PROFINET 24 V power cable

Basic Line for light & ordinary duty in power chain applications

AWM certification for USA and Canada



Supplementary automation components from Lapp



Oil-resistant



Power chain



Torsion-resistant

### Benefits

Compact design

Multi-standard certification reduces part varieties and saves costs

Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers

### Application range

In power chains or moving machine parts

In dry, damp or wet interiors

Suitable for use in measuring, control and regulating circuits

Wiring of machines, tools, devices, appliances and control cabinets

Only for outdoor use within the indicated operating temperature range, with UV-protection

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

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### Product features

Designed for 2 million alternating bending cycles and travel distances up to 10 meter  
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  
Oil-resistant according to DIN EN 50290-2-22 (TM54)  
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  
Outer sheath: PVC, heat-resistant  
Sheath colour:  
4 cores: black (RAL 9005)  
5 cores: grey (RAL 7001)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
Core identification code:	brown (L1), blue (N1), black (L2), white (N2) 5 cores: additionally pink (FE)
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:	For flexible use: Chains in self-supporting non-gliding arrangements: 10 x outer diameter In chains in gliding arrangements: 12 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	VDE: U0/U: 300 V UL & CSA: 1000 V
Test voltage:	1500 V
Protective conductor:	G = with functional earthing (FE) pink X = without functional earthing (FE)
Temperature range:	Flexible: VDE 0°C to +90°C; UL: up to +90°C Fixed installation: VDE -40°C to +90°C; UL/CSA: up to +90°C
Bending cycles & operation parameters:	2 mio. cycles

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### Note

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil 100 m; Drum (500; 1000) m

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1026791	4 X 0.75	6.5	29	73
1026792	5 G 0.75	7.1	37	86
1026793	4 X 1.5	7.6	58	114
1026794	5 G 1.5	8.5	72	139
1026795	4 X 2.5	9.3	96	179
1026797	5 G 2.5	10.4	120	214

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