

Power chain applications • Various applications, certified



## ÖLFLEX® CHAIN PN

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



**Info**

- PROFINET-compliant design
- Basic Line for light & ordinary duty in power chain applications
- AWM certification for USA and Canada

### 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

### 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

**Core identification code**  
brown (L1), blue (N1), black (L2), white (N2)  
5 cores: additionally grey (PE)

**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 TO

**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 protective conductor grey  
X = without protective conductor

**Bending cycles & operation parameters** 2 mio. cycles

**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

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® CHAIN PN</b>				
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
1026796	5 G 2.5	10.4	120	214

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](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: Coil 100 m; Drum (500; 1000) m  
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### Accessories

- SILVYN® CHAIN cable protection and guiding systems