

Power chain applications

Various applications, approved



ÖLFLEX® CHAIN 809

PVC-insulated, numbered, PVC sheath, approved



Info

- Basic Line for light & ordinary duty in power chain applications

Benefits

- Good combination of quality and price
- Compact design

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

- Low-adhesive surface
- Designed for 1...2 million bending/unbending cycles in the power chain
- Flame retardancy:
UL/CSA: VW-1, FT1
IEC/EN: 60332-1-2
- Oil-resistant according to DIN EN 50290-2-22 (TM54)
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Norm references / Approvals

- cUL AWM II A/B FT1
- UL-AWM-Style 20886
- For travel distances up to 10 m.
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File Nr. E63634

Product make-up

- Fine-wire, bare copper strand
- Core insulation: PVC
- Cores twisted in layers
- Non-woven wrapping
- PVC outer sheath, grey (RAL 7001)

Technical data

Classification
ETIM 5.0 Class-ID: EC000104
ETIM 5.0 Class-Description: Control cable

Core identification code
Black with white numbers acc. to VDE 0293-1

Specific insulation resistance
> 20 GOhm x cm

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 applications:
Chains in self supporting non-gliding arrangements: 10 x outside diameter
Chains in gliding arrangements: 12 x outside diameter
Fixed installation: 4 x outer diameter

Nominal voltage
VDE: U₀/U: 300/500 V
UL & CSA: 1000 V

Test voltage
4000 V

Protective conductor
G = with GN-YE protective conductor
X = without protective conductor

Temperature range
Flexing: VDE 0 °C to +70 °C
UL 0 °C to +80 °C
Fixed installation: VDE -40°C to +70°C;
UL -40°C to +80°C;

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1026700	2 X 0.5	5.2	10.0	40
1026701	3 G 0.5	5.5	15.0	48
1026702	4 G 0.5	6.0	20.0	58
1026703	5 G 0.5	6.5	24.0	67
1026704	7 G 0.5	7.7	34.0	88
1026705	12 G 0.5	9.2	58.0	136
1026706	18 G 0.5	11.0	87.0	195
1026707	25 G 0.5	13.3	120.0	274
1026708	2 X 0.75	5.6	15.0	49
1026709	3 G 0.75	6.0	22.0	60
1026710	4 G 0.75	6.5	29.0	73
1026711	5 G 0.75	7.1	37.0	86
1026712	7 G 0.75	8.5	51.0	117
1026713	12 G 0.75	10.3	87.0	181
1026714	18 G 0.75	12.2	130.0	259
1026715	25 G 0.75	14.8	181.0	363
1026716	2 X 1.0	5.9	19.0	58
1026717	3 G 1.0	6.3	29.0	72

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1026718	4 G 1.0	6.9	39.0	88
1026719	5 G 1.0	7.5	48.0	104
1026720	7 G 1.0	9.0	67.0	142
1026721	12 G 1.0	10.9	115.0	221
1026722	18 G 1.0	13.2	173.0	324
1026723	25 G 1.0	15.7	240.0	445
1026724	2 X 1.5	6.5	29.0	74
1026725	3 G 1.5	6.9	43.2	93
1026726	4 G 1.5	7.6	58.0	114
1026727	5 G 1.5	8.5	72.0	139
1026728	7 G 1.5	10.3	101.0	189
1026729	12 G 1.5	12.3	173.0	295
1026730	18 G 1.5	14.9	259.0	429
1026731	25 G 1.5	17.9	360.0	597
1026732	3 G 2.5	8.4	72.0	145
1026733	4 G 2.5	9.3	96.0	179
1026734	7 G 2.5	12.7	168.0	218
1026737	4 G 4	11.1	160.0	266

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: Coil 100 m; Drum (500; 1000) m
Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® CLASSIC FD 810 refer to page 107

Accessories

- SILVYN® CHAIN cable protection and guiding systems