



ÖLFLEX® CHAIN 819 CP

Highly flexible, screened control cable with PVC core insulation and robust, oil resistant outer sheath - certified



Info

- Basic Line Performance - Moderate travel lengths or acceleration
- High oil resistance
- UL/cUL certified for North America

Benefits

- Good combination of quality and price
- Durable thanks to robust sheath material
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Multi-standard certification reduces part varieties and saves costs
- Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers
- Copper braiding screens the cable against electromagnetic interference

Application range

- In power chains or moving machine parts
- In EMC-sensitive environments
- Very suitable for oily wet areas within machinery and production lines
- Assembly lines, production lines, in all kinds of machines
- Suitable for use in measuring, control and regulating circuits
- Indoor applications

Product features

- High oil-resistance
- Flammability:
IEC/EN: 60332-1-2
UL/CSA: Horizontal Flame, FT2
- Mechanically robust
- Low-adhesive surface
- EMC-compliant

Norm references / Approvals

- USA: UL AWM Style 21576
Canada: cUL AWM Style I/II A FT2
- UL File No. E63634
- For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

- Fine-wire, bare copper conductor
- Core insulation: PVC
- Cores twisted in layers
- Non-woven wrapping
- Tinned-copper braiding
- Outer sheath of Lapp-PU-Special Blend, black (similar RAL 9005)

Technical data

- Core identification code**
Black with white numbers acc. to VDE 0293-1
- Conductor stranding**
Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5
- TW-0 & TW-1, refer to Appendix T0
- Minimum bending radius**
Flexing: up from 10 x outer diameter
Fixed installation: 4 x outer diameter
- Nominal voltage**
IEC U0/U: 300/500 V
UL: 1000 V
- Bending cycles & operation parameters**
See Selection Table A2-1 in the appendix of our online catalogue
- Test voltage**
Core/core: 4000 V
Core/screen: 2000 V
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
- Temperature range**
Flexing: -5°C to +70°C (UL: +80°C)
Fixed installation: -40°C to +70°C (UL: +80°C)

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-----------------------------|---|---------------------|----------------------|----------------|
| ÖLFLEX® CHAIN 819 CP | | | | |
| 1027900 | 2 X 0.5 | 5.8 | 22.5 | 42.9 |
| 1027901 | 3 G 0.5 | 6.1 | 27.1 | 50.6 |
| 1027902 | 4 G 0.5 | 6.6 | 35.1 | 62.6 |
| 1027903 | 5 G 0.5 | 7.1 | 43.1 | 74.7 |
| 1027904 | 7 G 0.5 | 8.5 | 55.8 | 101 |
| 1027905 | 12 G 0.5 | 10 | 83.1 | 144.5 |
| 1027906 | 18 G 0.5 | 11.8 | 120 | 207.1 |
| 1027907 | 25 G 0.5 | 14.1 | 171 | 288.6 |
| 1027910 | 2 X 0.75 | 6.2 | 30.4 | 52.7 |
| 1027911 | 3 G 0.75 | 6.6 | 37.5 | 63.4 |
| 1027912 | 4 G 0.75 | 7.1 | 47.9 | 78 |
| 1027913 | 5 G 0.75 | 7.7 | 55.2 | 90.4 |
| 1027914 | 7 G 0.75 | 9.1 | 75.9 | 126.1 |
| 1027915 | 12 G 0.75 | 10.9 | 115.3 | 183.6 |
| 1027916 | 18 G 0.75 | 13 | 168 | 269.8 |
| 1027917 | 25 G 0.75 | 15.6 | 239.6 | 377 |
| 1027920 | 2 X 1.0 | 6.5 | 35.3 | 58.5 |
| 1027921 | 3 G 1.0 | 6.9 | 44.7 | 71.6 |
| 1027922 | 4 G 1.0 | 7.5 | 57.7 | 89.4 |
| 1027923 | 5 G 1.0 | 8.3 | 70.3 | 110.2 |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 1027924 | 7 G 1.0 | 9.8 | 92.7 | 149.2 |
| 1027925 | 12 G 1.0 | 11.7 | 148.7 | 224.4 |
| 1027926 | 18 G 1.0 | 14 | 224.1 | 331.3 |
| 1027927 | 25 G 1.0 | 16.7 | 299.5 | 449.2 |
| 1027930 | 2 X 1.5 | 7.1 | 47.9 | 73.8 |
| 1027931 | 3 G 1.5 | 7.5 | 62.5 | 92.6 |
| 1027932 | 4 G 1.5 | 8.4 | 80 | 118.9 |
| 1027933 | 5 G 1.5 | 9.1 | 97.5 | 142.7 |
| 1027934 | 7 G 1.5 | 10.9 | 129.7 | 194.9 |
| 1027935 | 12 G 1.5 | 13.3 | 211 | 301.9 |
| 1027936 | 18 G 1.5 | 15.7 | 319 | 447.8 |
| 1027937 | 25 G 1.5 | 18.7 | 428.1 | 606.5 |
| 1027940 | 3 G 2.5 | 9 | 97.4 | 138.9 |
| 1027941 | 4 G 2.5 | 10.1 | 124.8 | 178.2 |
| 1027944 | 5 G 2.5 | 11.2 | 148.7 | 215.4 |
| 1027942 | 7 G 2.5 | 13.5 | 206.5 | 301.6 |
| 1027943 | 12 G 2.5 | 16.2 | 347.5 | 478.5 |
| 1027950 | 4 G 4.0 | 11.9 | 187 | 256.1 |
| 1027952 | 4 G 10.0 | 18.2 | 452.1 | 606.5 |
| 1027955 | 4 G 16.0 | 21.3 | 699.5 | 884.2 |
| 1027957 | 4 G 25.0 | 26.3 | 1062.1 | 1349.7 |

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.

Similar products

- ÖLFLEX® CHAIN 809 CY refer to page 125