

Power chain applications • Various applications, certified



## ÖLFLEX® CHAIN TM CY

Highly flexible, screened control cable with TC-ER, MTW, WTTC or CIC/TC listing acc. (UL) or c(UL) for North America



**Info**

- Core Line Performance - Medium to increased travel lengths or acceleration
- The normative multi-talent according NEC and NFPA 79
- Problem-free use in cable trays, industrial machines or wind turbines

### Benefits

- Multi-standard certification offers universal application range, reduces part varieties and saves costs
- TC-ER and MTW listings enable open wiring on cable trays as well as the usage for industrial machines with only one cable
- Resistant to contact with many mineral oil-based lubricants and other chemical media
- Ideal for export-oriented machinery and equipment manufacturers thanks to high normative acceptance by the North American NEC (National Electrical Code)
- Under consideration of the temperature range also suitable for flexible outdoor use

### Application range

- In power chains or moving machine parts
- Static open wiring on and between cable tray an industrial machine acc. NEC
- Industrial machinery and machine tools
- Wind turbine engineering
- Linear robots, automated handling equipment

### Product features

- High oil-resistance, according to UL OIL RES I and UL OIL RES II
- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test
- Sunlight Resistant; Direct Burial
- Water-resistant, UL 75°C WET rating
- EMC-compliant

### Norm references / Approvals

- Certifications USA (UL) & UL AWM: TC-ER Tray Cable-Exposed Run MTW Machine Tool Wire WTTC Wind Turbine Tray Cable PLTC-ER Power Limited Tray Cable ITC Instrumentation Tray Cable DP-1 Data Processing Cable AWM Style 20886
- Certifications Canada c(UL) & CSA AWM: CIC/TC Control Instrumentation Cable/ Tray Cable FT4, AWM I/II A/B FT4
- Class 1 Division 2 per NEC Articles 336, 501
- For use in power chains: Please comply with assembly guideline Appendix T3

### Product Make-up

- Extra-fine wire strand made of bare copper
- Core insulation: PVC with nylon skin
- Cores twisted in layers in short lay lengths
- Non-woven wrapping
- Tinned-copper braiding
- Outer jacket: Specially formulated thermoplastic polymer
- Sheath colour: black (similar RAL 9005)

### Technical data

- Core identification code**  
Black with white numbers
- 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 10 x outer diameter  
Fixed installation: 4 x outer diameter
- Nominal voltage**  
UL/CSA: 600 V (TC, MTW, CIC), WTTC 1000 V
- Bending cycles & operation parameters**  
See Selection Table A2-1 in the appendix of our online catalogue
- Test voltage**  
2000 V
- Protective conductor**  
G = with GN-YE protective conductor
- Temperature range**  
Fixed installation:  
-40°C (-25°C UL TC) to +90°C (UL TC, MTW, according AWM +105°C)  
Flexing:  
-25°C to +90°C (according UL MTW)

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Weight (kg/km)
<b>ÖLFLEX® CHAIN TM CY</b>			
8718030S	3 G 1.0	8.4	122
8718040S	4 G 1.0	9.1	158
8718050S	5 G 1.0	10	183
8718070S	7 G 1.0	11.4	207
8718120S	12 G 1.0	13.9	341
8718180S	18 G 1.0	16.1	472
8718250S	25 G 1.0	18.6	649
8716030S	3 G 1.5	9.2	170
8716040S	4 G 1.5	10.2	190

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Weight (kg/km)
8716050S	5 G 1.5	11	223
8716070S	7 G 1.5	12.7	269
8716120S	12 G 1.5	15.4	463
8716180S	18 G 1.5	18.1	679
8716250S	25 G 1.5	22.1	951
8714040S	4 G 2.5	11.4	269
8714070S	7 G 2.5	15.2	420
8712040S	4 G 4.0	13.1	463
8710040S	4 G 6.0	16.1	574

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 ≤ 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.

### Accessories

- SILVYN® CHAIN cable protection and guiding systems