# Power and control cables

Power chain applications • Various applications, certified



ÖLFLEX



# ÖLFLEX<sup>®</sup> 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

LAPP KABEL STUTTGART ÖLFLEX" CHAIN TM CY (



UNITRONIC®

### 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 oilbased 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

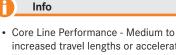
- · High oil-resistance, according to UL OIL RES I and UL OIL RES II
- · Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test
- · Sunlight Resistant; Direct Burial
- Water-resistant, UL 75°C WET rating
- EMC-compliant

## 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)



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

### **Technical data**

	Core identification code Black with white numbers
***	<b>Conductor stranding</b> Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Ċ	<b>Torsion movement in WTG</b> TW-0 & TW-2, refer to Appendix T0
$\square$	<b>Minimum bending radius</b> Flexing: up from 10 x outer diameter Fixed installation: 4 x outer diameter
4	Nominal voltage UL/CSA: 600 V (TC, MTW, CIC), WTTC 1000 V
E	Bending cycles & operation parameters See Selection Table A2-1 in the appendix of our online catalogue
45	Test voltage 2000 V
	<b>Protective conductor</b> G = with GN-YE protective conductor
0	<b>Temperature range</b> Fixed installation: -40°C (-25°C UL TC) to +90°C (UL TC, MTW, according AWM +105°C) Flexing: 25°C to +00°C (according UL MTW)

-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)	Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Weight (kg/km)
ÖLFLEX® CHAIN TM CY				8716050S	5 G 1.5	11	223
8718030S	3 G 1.0	8.4	122	8716070S	7 G 1.5	12.7	269
8718040S	4 G 1.0	9.1	158	8716120S	12 G 1.5	15.4	463
8718050S	5 G 1.0	10	183	8716180S	18 G 1.5	18.1	679
8718070S	7 G 1.0	11.4	207	8716250S	25 G 1.5	22.1	951
8718120S	12 G 1.0	13.9	341	8714040S	4 G 2.5	11.4	269
8718180S	18 G 1.0	16.1	472	8714070S	7 G 2.5	15.2	420
8718250S	25 G 1.0	18.6	649	8712040S	4 G 4.0	13.1	463
8716030S	3 G 1.5	9.2	170	8710040S	4 G 6.0	16.1	574
8716040S	4 G 1.5	10.2	190				

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.

#### Accessories

SILVYN<sup>®</sup> CHAIN cable protection and guiding systems

**HITRONIC®** 

SILVYN

**FLEXIMARK®**