

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

ÖLFLEX® FD CHAIN TM CY - Power and control cable for versatile use in power chains with UL listing an UL/cUL AWM certification.

#### 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











Suitable for outdoor use



Flame-retardant



Cold-resistant



Oil-resistant



Power chain



Interference signals



**UV-resistant** 

#### **Benefits**

Multi-standard certification offers universal application range, reduces part varieties and saves costs

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You can find the current technical data in the corresponding data sheet.
PN 0456 / 02\_03.16



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 "Constant Flexing"
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**

Classification ETIM 5: ETIM 5.0 Class-ID: EC000104

ETIM 5.0 Class-Description: Control cable

Core identification code: Black with white numbers

Conductor stranding: Extra-fine wire according to VDE 0295, class 6/IEC 60228 class

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Torsion movement in WTG: TW-0 & TW-2, refer to Appendix T0

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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

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)

Bending cycles & operation parameters: See Selection Table A2-1 in the appendix of our online catalogue

#### Note

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.

Prices are net prices without VAT and surcharges. Sale to business customers only.

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHAIN TM CY				·
8718030S	3 G 1.0	8.4	59.524	122
8718040S	4 G 1.0	9.1	71.429	158
8718050S	5 G 1.0	10	84.821	183
8718070S	7 G 1.0	11.4	139.881	207
8718120S	12 G 1.0	13.9	227.679	341
8718180S	18 G 1.0	16.1	321.429	472
8718250S	25 G 1.0	18.6	336.31	649
8716030S	3 G 1.5	9.2	77.381	170
8716040S	4 G 1.5	10.2	98.214	190
8716050S	5 G 1.5	11	113.095	223
8716070S	7 G 1.5	12.7	145.833	269
8716120S	12 G 1.5	15.4	248.512	463
8716180S	18 G 1.5	18.1	349.702	679
8716250S	25 G 1.5	22.1	465.774	951
8714040S	4 G 2.5	11.4	138.393	269
8714070S	7 G 2.5	15.2	218.75	420
8712040S	4 G 4.0	13.1	229.17	463
8710040S	4 G 6.0	16.1	309.524	574



