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

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

Last Update (25.04.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ÖLFLEX® CHAIN TM CY

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 6
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0

©2024 Lapp Group - Technical changes reserved

ÖLFLEX® CHAIN TM CY

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.

Last Update (25.04.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

LAPP

ÖLFLEX® CHAIN TM CY

PRODUCT INFORMATION

Article number	Number of cores and mm² 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

Last Update (25.04.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ÖLFLEX® CHAIN TM CY

Last Update (25.04.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16