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Energy Guiding Chains from Kabelschlepp

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KABELSCHLEPP
The power to innovate

CONDUCTIX
wampfler
DELACHAUX GROUP

CONDUCTIX
wampfler
DELACHAUX GROUP

Conductix-Wampfler and Kabelschlepp world renowned energy guiding chains

Wherever you find people and things in motion, you'll also find custom-configured Conductix-Wampfler solutions for the transmission of energy, data and media.

These solutions include an extensive line of Kabelschlepp energy guiding chains. Container cranes, steel mills and powerplants, high-rack storage and retrieval systems, green-houses and car washes are only a few of the many typical applications for energy guiding chains.

The enormous variety of different configurations, materials, designs and accessories makes Kabelschlepp energy guiding chains, the choice of preference when it comes to finding the right solution, no matter how difficult or unusual the application!

And, not only does Conductix-Wampfler offer products that feature robust, heavy-duty construction and reliable operation even under punishing operating conditions, but also fast, efficient service and support.

As a result it's no surprise that Kabelschlepp energy guiding chains are found – often in combination with other Conductix-Wampfler energy transmission systems – wherever mobility is important. Worldwide!



Everything from a single source – Conductix-Wampfler also supplies optimum Lifeline cables

A portal robot equipped with a chain permits reliable, efficient picking, placing and positioning



Some like it wet – In this car wash for example



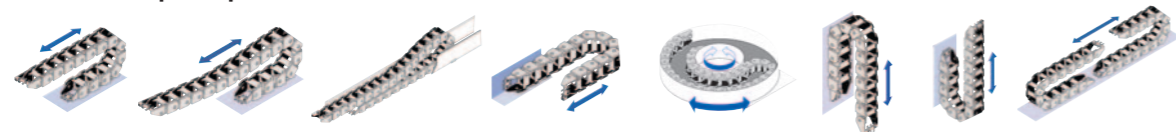
Kabelschlepp energy guiding chain on a port crane



Provides a safe process – Steel chain with covers in a steel mill

Top service – Assembly on site in a container facility

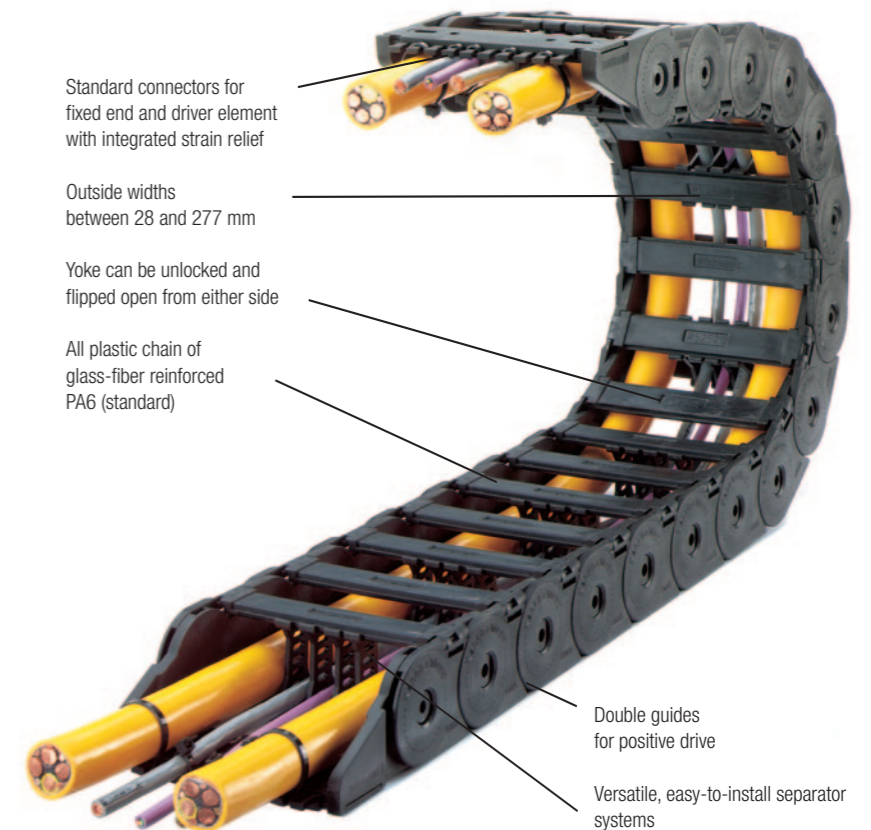
Installation principles



Uniflex

Main applications:

- Small to medium-sized bridge cranes, for interior and exterior use
- Automated storage and retrieval systems
- Transfer cars
- Sliding door systems
- Irrigation systems
- Carousels
- Telescopic booms
- Material handling



Standard Specifications

Travel distance Ls	40 m
Travel speed	10 m/s for self-supporting chains 150 m/min for long travel distance
Acceleration	10 m/s ² for self-supporting chains
Ambient temperature	-20°C...+ 60°C (permanent)
Max. temperature	80°C (intermittent)
Use in explosion-protected areas acc. to ATEX-RL 94/9/EG	possible with special plastics
Use in food industry	possible
Chemical resistance	resistant against fats and oils
Not resistant against	acidic liquids like salt acid, lactic acid, acetic acid, chromate and chlorine
Labs-compliant	yes
UV-resistant	yes
Cable allocation	exclusively round cables, max. Ø 32 mm

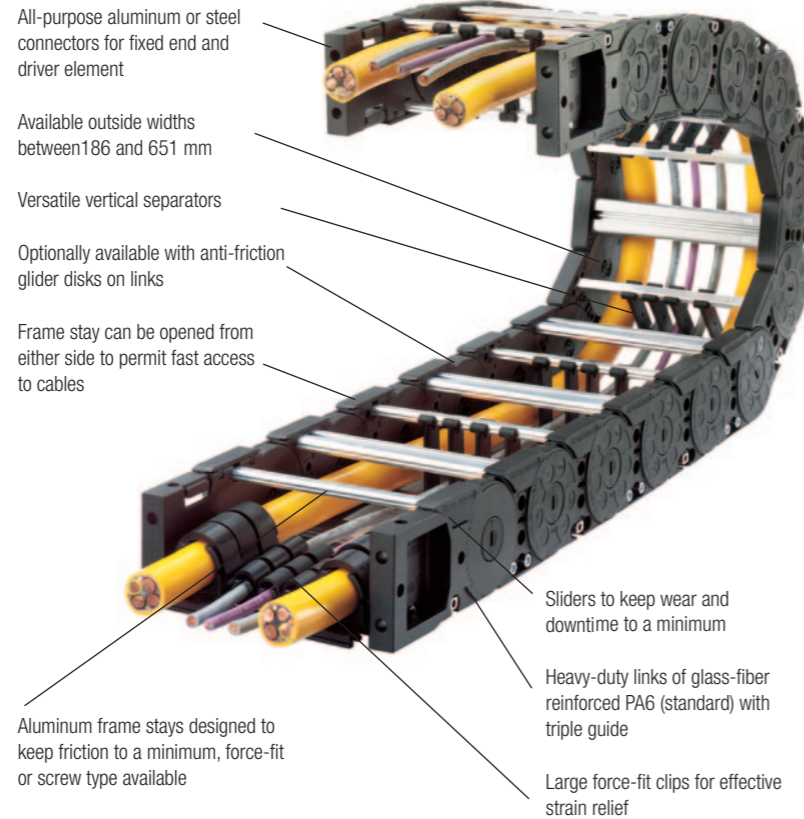
Dimensions	Outside width B _e (mm)	Inside height (mm)	Bending radius KR preference line (mm)	Max. self-supporting length L _s (mm)	Max. additional load (kg/m)
0345.030	28... 103	20	50/75/100/125	1.700	2
0455.030	43... 148	26	65/95/125/150/200	2.000	4
0555.030	72... 172	38	80/100/125/160/200	2.800	7
0665.030	77... 277	44	100/120/140/200/250	3.200	10



MC Series

Main applications:

- Medium-size to large bridge cranes
- Container cranes and RTG's
- Automated storage and retrieval systems
- Vertical people movers
- Compost plants
- Woodworking machinery
- Washing systems/car washes
- Water-treatment plants
- Transport of fluid media (molding sand, hydraulic oil, compressed air)



Standard Specifications

Travel distance Ls	90 m; longer distances with rolling carriage
Travel speed	8 m/s for self-supporting chains 240 m/min for long travel distance
Acceleration	15 m/s ² for self-supporting chains
Ambient temperature	-20°C ... 80°C (permanent)
Max. temperature	95°C (intermittent)
Use in explosion-protected areas acc. to ATEX-RL 94/9/EG	possible with special plastics
Use in food industry	possible
Chemical resistance	resistant against fats and oils
Not resistant against	acidic liquids like salt acid, lactic acid, acetic acid, chromate and chlorine
Labs-compliant	yes
UV-resistant	yes
Cable allocation	exclusively round cables, max. Ø 56 mm

Dimensions	Outside width B _x (mm)	Inside height (mm)	Bending radius KR preference line (mm)	Max. self-supporting length L _s (mm)	Max. additional load (kg/m)
MC 0650*	109... 526	38	75/115/145/175/220	2.500	20
MC 0950	139... 639	58	140/170/200/260/320	3.600	30
MC 1250	145... 845	72	180/220/260/300/340	4.800	50

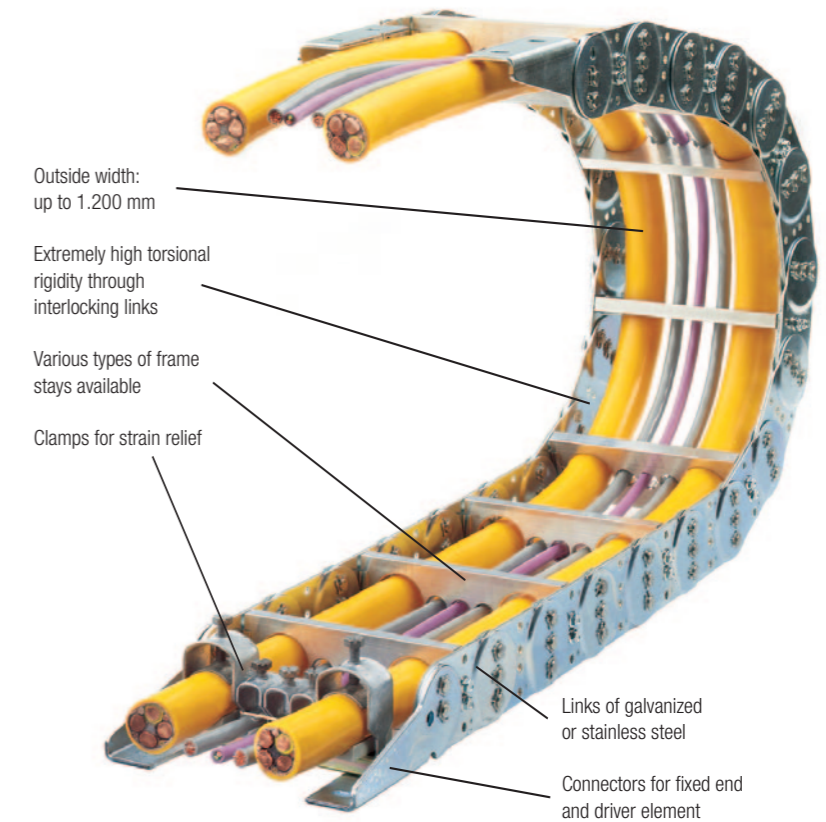
* Not normally stocked



S Series

Main applications:

- Steel mill cranes
- Portal cranes in foundries and rolling mills
- Stacker-reclaimers
- Transfer cars in foundries and rolling mills
- Offshore installations
- Transport means in nuclear installations
- Transport of fluid media in chemical industry



Standard Specifications

Travel distance Ls	24 m self-supporting; 35 m with support rollers; 200 m with rolling carriage
Travel speed	90 m/min for self-supporting chains; 60 m/min with support rollers; 120 m/min with rolling carriage
Acceleration	5 m/s ² for self-supporting chains
Ambient temperature	-25°C ... 250°C permanent (aluminum cross bar) -25°C ... 400°C permanent (steel tube bar)
Use in explosion-protected areas acc. to ATEX-RL 94/9/EG	standard suitable up to zone 0
Use in food industry	possible
Chemical resistance	broadly very good, chains made of galvanized steel are not resistant against acids; chains made of stainless steel are resistant
Wear resistance	best on high-strength stainless steel chains
Corrosion protection	yes
Labs-compliant	yes
UV-resistant	yes
Cable allocation	exclusively round cables, max. Ø 65 mm

Dimensions	Outside width B _x (mm)	Inside height (mm)	Bending radius KR preference line (mm)	Max. self-supporting length L _s (mm)	Max. additional load (kg/m)
S 0650*	100... 400	31	75/115/145/175/200/250	3.000	30
S 0950	150... 400	46	125/170/200/260/290	4.500	40
S 1250	200... 500	72	145/200/260/300/380	6.000	50
S 1800*	250... 1.000	109	265/320/375/435/490	9.000	60

* Not normally stocked

Other options from the extensive Kabelschlepp range



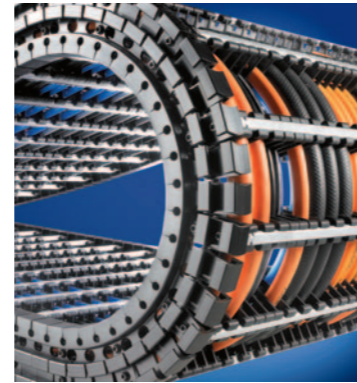
Profile Series

For short travel lengths and high travel speeds



XL Series

Nylon/Aluminium chain with a large internal height



Quantum Series

Light weight, low noise and vibration for high speeds



Robotrax

For 3 dimensional movement



Conduflex

Completely enclosed cable carrier



Mobilflex

Flexible metal helical tubes



Troughing systems

Available in heavy duty galvanised steel or stainless steel and/or custom designed to your application



System pre-assembly

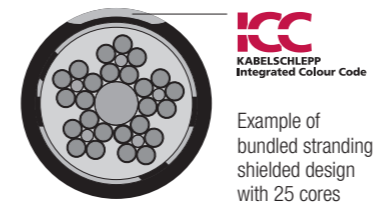
Pre-assembly of systems for maximised quality and installation efficiency

Lifeline Energy Chain Cables

PVC Control Cables

Control 400

- Standard *PLUS* control cables for more challenging applications
- Self-supporting and gliding applications with small bend radii and high speeds
- Black outer jacket for high UV-resistance, also suitable for outdoor applications; co-extruded ICC Colour Code Identification based on DESINA colour code simplifies the correct cable installation into the carrier



PUR Control Cables

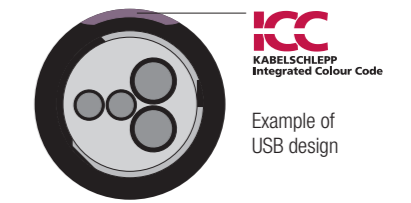
Control 700

- High-quality PUR control cables for even the most challenging applications
- Self-supporting and gliding applications with smallest bend radii and very high speeds; especially suitable for long travel lengths
- For indoor and outdoor applications
- Optimised bundle-stranding > 8 strands for highest availability
- Shielded design with continuous bending hi-flex braided shield



PUR BUS/Koax/LWL Cables Profibus, CAN-BUS, USB, Interbus, CAT5, DeviceNet, Koax, LWL 700

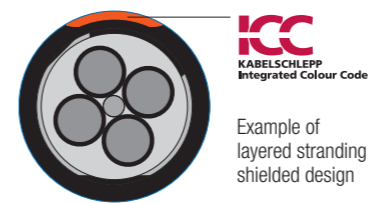
- Super-flexible, continuous bending hi-flex and robust PUR BUS/Koax/LWL cables
- For universal and extremely challenging applications in cable carriers
- For self-supporting and long gliding applications with small bend radii



PVC Power Cables

Power 400

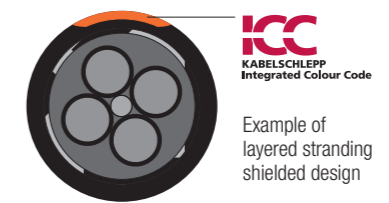
- High-quality, robust PVC motor cables for challenging applications
- Self-supporting and gliding applications for small bend radii and high speeds
- Particularly suitable for long travel lengths
- Suitable for indoor and outdoor applications
- High wear-resistant and robust outer jacket



PUR Power Cables

Power 700

- High-quality, robust PUR motor cables for even the most challenging applications
- Self-supporting and gliding applications for very small bend radii and very high speeds
- Particularly suitable for long travel lengths
- For indoor and outdoor applications
- High wear-resistant and nick-resistant outer jacket
- Individual strands with double jacket
- Shielded design with continuous bending hi-flex braided shield



PUR Data Cables

Data 700

- Super-flexible, continuous bending hi-flex and robust PUR data cables with inner jacket
- Pair-stranding cabling and complete shielding – suitable for critical EMC environments
- For universal and extremely challenging applications in cable carriers
- For self-supporting and very long gliding applications with small bend radii
- Particularly suitable for high speeds and accelerations
- Double-shielded CD version

