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!

Conductix-Wampfler and Kabelschlepp world renowned energy guiding chains

Installation principles

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

Some like it wet — In this car wash for example

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

Top service — Assembly on site in a container facility

Everything from a single source — Conductix-Wampfler also supplies optimum Lifeline cables
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 connectors for fixed end and driver element with integrated strain relief

Outside widths between 28 and 277 mm

Yoke can be unlocked and flipped open from either side

All plastic chain of glass-fiber reinforced PA6 (standard)

Double guides for positive drive

Versatile, easy-to-install separator systems

Standard Specifications

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Outside width BK (mm)</th>
<th>Inside height (mm)</th>
<th>Bending radius KR preference line (mm)</th>
<th>Max. self-supporting length Lf (mm)</th>
<th>Max. additional load (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0345.030</td>
<td>28...103</td>
<td>20</td>
<td>50/75/100/125</td>
<td>1.700</td>
<td>2</td>
</tr>
<tr>
<td>0455.030</td>
<td>43...148</td>
<td>26</td>
<td>65/95/125/150/200</td>
<td>2.000</td>
<td>4</td>
</tr>
<tr>
<td>0555.030</td>
<td>72...172</td>
<td>38</td>
<td>80/100/125/160/200</td>
<td>2.800</td>
<td>7</td>
</tr>
<tr>
<td>0665.030</td>
<td>77...277</td>
<td>44</td>
<td>100/120/140/200/250</td>
<td>3.200</td>
<td>10</td>
</tr>
</tbody>
</table>
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)

All-purpose aluminum or steel connectors for fixed end and driver element

Available outside widths between 186 and 651 mm

Versatile vertical separators

Optionally available with anti-friction glider disks on links

Frame stay can be opened from either side to permit fast access to cables

Sliders to keep wear and downtime to a minimum

Heavy-duty links of glass-fiber reinforced PA6 (standard) with triple guide

Large force-fit clips for effective strain relief

Aluminum frame stays designed to keep friction to a minimum, force-fit or screw type available

Standard Specifications

<table>
<thead>
<tr>
<th>Travel distance Ls</th>
<th>90 m; longer distances with rolling carriage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel speed</td>
<td>8 m/s for self-supporting chains</td>
</tr>
<tr>
<td></td>
<td>240 m/min for long travel distance</td>
</tr>
<tr>
<td>Acceleration</td>
<td>15 m/s² for self-supporting chains</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-20°C ... 80°C (permanent)</td>
</tr>
<tr>
<td>Max. temperature</td>
<td>95°C (intermittent)</td>
</tr>
<tr>
<td>Use in explosion-protected areas acc. to ATEX-RL 94/9/EG</td>
<td>possible with special plastics</td>
</tr>
<tr>
<td>Use in food industry</td>
<td>possible</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>resistant against fats and oils</td>
</tr>
<tr>
<td>Not resistant against</td>
<td>acidic liquids like salt acid, lactic acid, acetic acid, chromate and chlorine</td>
</tr>
<tr>
<td>Labs-compliant</td>
<td>yes</td>
</tr>
<tr>
<td>UV-resistant</td>
<td>yes</td>
</tr>
<tr>
<td>Cable allocation</td>
<td>exclusively round cables, max. Ø 56 mm</td>
</tr>
</tbody>
</table>

Dimensions

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

* 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

<table>
<thead>
<tr>
<th>Travel distance $L_s$</th>
<th>24 m self-supporting; 35 m with support rollers; 200 m with rolling carriage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel speed</td>
<td>90 m/min for self-supporting chains; 60 m/min with support rollers; 120 m/min with rolling carriage</td>
</tr>
<tr>
<td>Acceleration</td>
<td>5 m/s² for self-supporting chains</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-25°C ... 250°C permanent (aluminum cross bar)</td>
</tr>
<tr>
<td></td>
<td>-25°C ... 400°C permanent (steel tube bar)</td>
</tr>
<tr>
<td>Use in explosion-protected areas</td>
<td>standard suitable up to zone 0 acc. to ATEX-RL 94/9/EG</td>
</tr>
<tr>
<td>Use in food industry</td>
<td>possible</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>broadly very good, chains made of galvanized steel are not resistant against acids; chains made of stainless steel are resistant</td>
</tr>
<tr>
<td>Wear resistance</td>
<td>best on high-strength stainless steel chains</td>
</tr>
<tr>
<td>Corrosion protection</td>
<td>yes</td>
</tr>
<tr>
<td>Labs-compliant</td>
<td>yes</td>
</tr>
<tr>
<td>UV-resistant</td>
<td>yes</td>
</tr>
<tr>
<td>Cable allocation</td>
<td>exclusively round cables, max. Ø 65 mm</td>
</tr>
</tbody>
</table>

## Dimensions

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

* 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 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