SCL
Compact Conductor Line System
Our solutions move you further...

Wabtec Netherlands is the specialist in the development and creation of flexible power supply for portable equipment. Because of our broad experience (since 1953), we advise and design successful solutions for a wide range of applications, such as cranes, AS/RS industry, assembly plants, blast furnace applications, concrete factories, production machines and much more.

Wabtec Netherlands: the world-wide supplier.

The Wabtec Netherlands head office is situated in Ede, the Netherlands. World-wide Wabtec Netherlands is represented in more than 65 countries, which ensures you short delivery times, a world-wide availability of components and technical support. Naturally we communicate by means of the most modern equipment. Solutions can therefore be sent within seconds to almost every corner of the world. Speaking of efficiency.

Wabtec Netherlands: flexible all the way ...

For product improvement and development we use the most modern design technologies and testing facilities. This ensures the best possible solutions technically as well as economically for your projects. Flexibility in solutions for applications and tailor made installations make us your specialist. Quick and very accurate.

And of course, compliant to ISO 9001 and SCC/VCA accreditations.

Wabtec Netherlands: in good company!

We are part of the American Wabtec Corporation, a leading supplier of value-added, technology-based products and services for rail, transit and other global industries. We offer you continuity as your partner in business with affiliated companies in e.g. Germany, Great-Britain, USA, Australia, China and more.
Optimal power supply and uninterrupted data communication are the pillars of modern production. AKAPP conductor lines guarantee both, effectively and safely.

Efficient work processes are often only made possible by flexibly connected current collectors/data adapters along the lines.

Using solid components and sophisticated system technology, we ensure the right power is available at all times – precisely where it is needed. Data connections for computerised processes are permanently stable and remain uninterrupted.

Our conductor line systems also increase safety for people and the environment. Particularly when manually transporting power- and data lines within the work area is obstructive or even hazardous.

All conductor lines are planned by us as complete systems. We carry out the projects on site, including suspension, control cabinets and all other necessary components – even in underground conductor line channels if necessary.

The design and quality of our conductor line systems guarantee easy assembly and low-maintenance operation.
The SCL System

Our compact conductor lines of the SCL series are made of impact resistant plastic and feature an innovative connection technology. The installation-friendly, preassembled system is characterized by a high stiffness at low weight and compact dimensions. It can expand and offers inspection possibilities at all joints. Additional expansions are only necessary in specific installation projects.

All straight sections can be easily replaced if necessary. The sliding contacts can be connected and fixed using a solid bolt embedded in the system - it does not require loose mounting components. Feedings are carried out variable within or at the end of the conductor line.

The main power line is integrated, safe from damages, within the current collector trolleys.

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**SYSTEM COMPONENTS**

1. End supply
2. C-rail traverse
3. I-beam clamp
4. Entry / transfer funnel
5. C-rail traverse suspension
6. Straight sections up to 4000 mm length
7. Current collecting trolley 100 A
8. Conductor bar connecting element
9. Centre supply
10. Centre supply for curve sections and narrow installation space
11. Sliding and fixed point suspension, standard
12. Current collecting trolley 20 A / 40 A
13. Sliding and fixed point suspension for areas with wide temperature fluctuations
14. Expansion
15. End/terminating cap
16. Curve profile, vertical/horizontal

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**TECHNICAL DATA FOR CONDUCTOR BAR**

<table>
<thead>
<tr>
<th>Housing material</th>
<th>PVC</th>
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</thead>
<tbody>
<tr>
<td>Standard length</td>
<td>4000 mm</td>
</tr>
<tr>
<td>Number of conductors</td>
<td>max. 7</td>
</tr>
<tr>
<td>Suspension distance</td>
<td>1000 mm / 2000 mm</td>
</tr>
<tr>
<td>Voltage U_N</td>
<td>24 to 690 V AC</td>
</tr>
<tr>
<td>Current capacity (100% ED at 35°C)</td>
<td>64 A</td>
</tr>
<tr>
<td>Conductor bar cross-section</td>
<td>10 mm²</td>
</tr>
<tr>
<td>Ambient / housing temperature</td>
<td>-30 °C up to +70 °C, special version up to +80 °C</td>
</tr>
<tr>
<td>Travel speed</td>
<td>depending on the application, up to 300 m/min</td>
</tr>
<tr>
<td>Protection class (DIN VDE 0470 T.1 / EN 60529)</td>
<td>IP23 / IP24 (with sealing tip)</td>
</tr>
<tr>
<td>Smallest curve radius</td>
<td>≥ 800 mm horizontal / ≥ 1500 mm vertical</td>
</tr>
<tr>
<td>Fire protection equipment</td>
<td>UL94 / V0 (not halogen free)</td>
</tr>
</tbody>
</table>
AKAPP Conductor Line

The enclosed conductor system is designed for currents up to 240 A. Depending on the application it is equipped with up to 7 conductors.

Accidental contact with live components is almost impossible thanks to the narrow openings in the casing profile. Our SCL conductor lines are used without further safety measures in areas that are within easy reach. Additional sealing lips provide effective protection against dirt and moisture.

We offer our SCL series in prefabricated 4-meter lengths. In addition to the conductor bar with collecting trolleys, mounting systems for wall or ceiling installation, power supply feeds, etc. a comprehensive range of accessories is available.

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<td>Overhead and bridge cranes</td>
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Reliability under hard operating conditions
Components and technical data

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APPLICATIONS
- Overhead and bridge cranes
- High bay storage, conveyor technology
- Monorail tracks
- Transport systems
- Data transmission systems
- Production lines, workshop equipment
- Stand-alone applications

SYSTEM COMPONENTS
- Straight sections up to 4000 mm length
- Curved sections from ≥ 800 mm curve radius
- Sliding and fixed point suspensions
- C-rail traverses
- Centre/end feedings
- End/terminating caps
- Current collecting trolleys 20 A / 40 A / 100 A
- Entry/transfer funnels
- Fork attachment/towing arm for free transfer sections

TECHNICAL DATA FOR CONDUCTOR BAR

- Housing material: PVC
- Standard length: 4000 mm
- Number of conductors: max. 7
- Suspension distance: 1000 mm / 2000 mm
- Voltage Uₕ: 24 to 690 V AC
- Current capacity (100% ED at 35°C), max.: 40 A  64 A  78 A  100 A  140 A  180 A  240 A
- Conductor bar cross-section: 5 mm²  10 mm²  15 mm²  25 mm²  35 mm²  50 mm²  70 mm²
- Ambient / housing temperature: -30 °C to +70 °C
- Travel speed: depending on the application, up to 300 m/min
- Protection class (DIN VDE 0470 T.1/EN 60529): IP23 / IP24 (with sealing lip)
- Smallest curve radius: ≥ 800 mm horizontal / ≥ 1500 mm vertical
- Fire protection equipment: UL94 / V0 (not halogen free)
Overview of AKAPP SCL Conductor line series and plant systems

We manufacture conductor lines for every purpose, with closed or open structure, i.e. with or without protective insulation against manual contact.

The design, material and number of poles can be varied depending on area of use and purpose and tailored to our customers’ requirements.

For more info visit our website or contact us.

**COMPACT CONDUCTOR LINES**

Compact conductor line systems are distinguished by their installation-friendly design and connection technology. As a result, these systems can be easily expanded or modified. They correspond to protection class IP23.

**INDIVIDUALLY INSULATED CONDUCTOR LINES**

Individually insulated conductor lines are suitable for use in buildings, workshops and outdoor facilities. The comprehensive individual insulation of the current carrying elements ensures full safe protection against accidental contact in areas that are within easy reach (protection class IP23).

**OPEN CONDUCTOR LINES**

Open conductor lines are created for heavy industry and port operations. Robustly built and designed for high voltage, they work effectively in extreme environments as well as outdoors.

**CONDUCTOR LINE CHANNELS / BOX-TYPE CONDUCTOR LINES**

Conductor line channels and box-type conductor lines are used in crane and port operations. Special covers and lifting devices allow for an easy drive over and optimal protection against accidental contact along the conductor lines.