The Simple Solution!

Insulated conductor rails are one of the most widely used systems for the transmission of power and data. Conductor rail solutions from Conductix-Wampfler are in use in a variety of systems around the world. Whether on automotive production lines, in a variety of crane systems, in packing machines, in high-storage warehouses, in the infrastructure of airport terminals, or in amusement park rides – people count on Conductix-Wampfler conductor rails, and not without reason.

These features of the product line, along with a strict standard of quality and more than 30 years of experience (in the development, production, and application of contact-safe conductor rails) form the basis of a successful relationship with our customers.

The modular structure of the systems and nearly limitless expandability in the number of poles and the length of the system are what make this universally adaptable.

We can wind you up!
SingleFlexLine 0815 in a packaging machine

We lift you up!
SinglePowerLine 0812 on a people-mover in a ski jump lift

We have profile!
The right system for every application
Optimized Mounting Solutions

ProShell: systematic efficiency on AS/RS

ProShell is a modular, quick-assembly system that allows fast and secure integration of 0812 and 0831 conductor rails in the AS/RS aisles (on shelf uprights or floor mounting brackets).

- Protects the conductor rail system on three sides
- Keeps the rail system aligned, regardless of temperatures
- Mounting distances up to 3200 mm
- Secure and functional system interface between shelves and energy supply
- Up to 7 poles, 400 A (with rail program 0812)
- Slots for additional accessories, e.g. positiong systems, landmarks, etc.
- Fast mounting on the shelves or single-hole floor consoles
1. Conductor rail with insulating profile — with contact guard, designed according to international standards

2. PE ground pole — optionally with protection against polarity errors

3. Rail connector — for the safe, quick connection of units

4. End cap — to terminate system ends and protect against contact

5. Feed connector — for conventional connection to the stationary power supply

6. Hanger clamp — for smooth installation

7. Collector assembly — for safe transmission and compensation of movement tolerances in positive guide and long service life
Product Line Overview – *No Limits!*

There are different product lines available to cover a variety of requirements. Modular in structure and flexible in use, we have the right solution for nearly any application.

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Program</th>
<th>Description</th>
<th>Current Range</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SingleFlexLine</strong></td>
<td>0811</td>
<td>Single-pole conductor rail for curving applications and ring arrangements</td>
<td>10 - 100 A</td>
<td>Electrified monorail systems, Carousels, Sorters</td>
</tr>
<tr>
<td></td>
<td>0815</td>
<td>Single-pole conductor rail for curving applications and ring arrangements</td>
<td>32 - 100 A</td>
<td>Electrified monorail systems, Packaging machines, Small parts warehouses</td>
</tr>
<tr>
<td><strong>SinglePowerLine</strong></td>
<td>0812</td>
<td>Single-pole conductor rail for preferably straight rail runs</td>
<td>25 - 400 A</td>
<td>Crane systems, Transport systems</td>
</tr>
<tr>
<td></td>
<td>0813</td>
<td>Single-pole conductor rail for preferably straight rail runs</td>
<td>200 - 1250 A</td>
<td>Crane systems, People movers</td>
</tr>
<tr>
<td><strong>MultiLine</strong></td>
<td>0831</td>
<td>Multi-pole, compact conductor rail for straight rail runs indoors</td>
<td>10 - 125 A</td>
<td>High storage systems, Transfer cars, 3-4-5 poles</td>
</tr>
<tr>
<td><strong>MultiLine</strong></td>
<td>0835</td>
<td>Multi-pole, modular small-scale conductor rail system</td>
<td>1 - 100 A</td>
<td>Logistic shuttles, AS/RS for automatic small parts warehouses, 2 poles with/without protective conductor</td>
</tr>
<tr>
<td><strong>BoxLine</strong></td>
<td>0842</td>
<td>Multi-pole, enclosed conductor rail for preferably straight rail runs</td>
<td>35 - 140 A</td>
<td>Crane systems, Building maintenance units, 4-5-6-7 poles</td>
</tr>
<tr>
<td><strong>ProShell</strong></td>
<td>0812/0831</td>
<td>Flexible substructure for program 0812/0831</td>
<td></td>
<td>AS/RS and transfer cars, Mounting distances up to 3.2 m, up to 7 poles</td>
</tr>
</tbody>
</table>
The safety of full insulation and integrated contact protection, along with optional PE polarity error protection "PEplus".

Simple, precise installation with multipoled hanger clamps and bayonet connector technology.

Unlimited number of poles, even for complex applications.

Simple radial layout due to uncomplicated bending of rails at the construction site.

Main applications:
- Electrified monorail systems
- Packaging machines
- Temporary buildings
- Ring rails / slip rings
- Revolving stages
- Small parts warehouses

Standard application data

- Nominal current range (100% duty cycle) 10 A | 32 A | 100 A
- Nominal voltage 690 V
- Rail length 4000 mm (different lengths optional)
- Outer dimensions (pole) 14.7 x 15.5 mm
- Area of use Indoor or protected outdoor area
- Rail layout Any
- Number of poles No limit (system holders can be combined for 2, 3, 4, 5, or 6 poles)
- Installation orientation Collector insertion from side or bottom
SingleFlexLine

Main applications:
- Electrified monorail systems
- Ring rails / slip rings
- Specialized machines
- Sorters and small parts warehouses

Standard application data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal current range</td>
<td>32 A / 100 A</td>
</tr>
<tr>
<td>(100% duty cycle)</td>
<td></td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>690 V</td>
</tr>
<tr>
<td>Rail length</td>
<td>4000 mm</td>
</tr>
<tr>
<td>Outer dimensions (pole)</td>
<td>9.6 x 15.2 mm</td>
</tr>
<tr>
<td>Area of use</td>
<td>Indoors</td>
</tr>
<tr>
<td>Rail layout</td>
<td>Any</td>
</tr>
<tr>
<td>Number of poles</td>
<td>Any (monorail conveyors with 2, 4, 6, 8, or 10 poles)</td>
</tr>
<tr>
<td>Installation orientation</td>
<td>Collector insertion from side or bottom</td>
</tr>
</tbody>
</table>
Main applications:
- Crane systems of medium load capacity
- People movers
- Specialized systems

Standard application data
| Nominal current range (100% duty cycle) | 25 A | 200 A | 250 A | 320 A | 400 A |
| Nominal voltage                          | 690 V (hand area 500 V) with insulators up to 1000 V |
| Rail length                              | 4000 mm |
| Outer dimensions (pole)                  | 18 x 26 mm |
| Area of use                              | Indoor or outdoor area |
| Rail layout                              | Straight (arc segments possible) |
| Installation orientation                 | Collector insertion preferably from below |
Conductix-Wampfler Conductor Rails

SinglePowerLine

Main applications:
- Heavy-duty crane systems
- Cable-driven STS crane carriage systems
- People movers
- Specialized systems

High reliability even in harsh environments due to a robust design, and availability of a variety of conductor materials

Safety for people and machines due to insulation of the individual poles

Simple, precise installation with single-pole and combinable multi-pole hanger clamps (3, 4, and 5 poles)

Standard application data

| Nominal current range (100% duty cycle) | 200 A | 320 A | 500 A | 800 A | 1000 A | 1250 A |
| Nominal voltage | 690 V with insulators up to 1000 V |
| Rail length | 5000 mm |
| Outer dimensions (pole) | 32 x 42 mm |
| Area of use | Indoor or outdoor area |
| Rail layout | Preferably straight (arc segments possible) |
| Installation orientation | Collector insertion preferably from below |

Program 0813
Fast, cost-effective installation thanks to a multipole design and use of plug connectors

Ideal layout due to availability in 3, 4, and 5-pole variants

High degree of safety and mechanical rigidity due to massive shared insulators

Low mass due to compact design and optimized phase distance

Maintenance-friendly due to fast exchange of rail segments and simple cleaning of the compact profile

Flexible extension and optional positioning system

**Main applications:**
- High storage systems
- Process and hall cranes
- Specialized machines
- Transfer cars

**Standard application data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal current range (100% duty cycle)</td>
<td>10 A</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>690 V</td>
</tr>
<tr>
<td>Rail length</td>
<td>4000 mm</td>
</tr>
<tr>
<td>Outer dimensions (pole)</td>
<td>3-pole: 26 x 62 mm</td>
</tr>
<tr>
<td>Area of use</td>
<td>Indoor or protected outdoor area</td>
</tr>
<tr>
<td>Rail layout</td>
<td>Linear</td>
</tr>
<tr>
<td>Number of poles</td>
<td>Any; can be combined from 3, 4, and 5-pole rails</td>
</tr>
<tr>
<td>Installation orientation</td>
<td>Collector insertion from the side or bottom</td>
</tr>
</tbody>
</table>

Program 0831
**MultiLine**

**Main applications:**
- Automated small parts warehouses
- Shuttle systems

**Standard application data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal current range (100% duty cycle)</td>
<td>Whole system: 32 A</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>230/400 V AC – safety-/low voltage min. 24 up to max. 48 V DC/AC</td>
</tr>
<tr>
<td>Rail length</td>
<td>4000 mm +/-2 mm at 20°C</td>
</tr>
<tr>
<td>Outer dimensions</td>
<td>98 x 38 mm incl. system fastener and current collector</td>
</tr>
<tr>
<td>Area of use</td>
<td>Indoors</td>
</tr>
<tr>
<td>Rail layout</td>
<td>Linear</td>
</tr>
<tr>
<td>Number of poles</td>
<td>2 poles (can be expanded in increments of two)</td>
</tr>
<tr>
<td>Installation orientation</td>
<td>Collector insertion from the side</td>
</tr>
</tbody>
</table>

**Special characteristics:**
- Faster, easier mounting due to a more rigid rail profile and uses 50% less rail hangers than comparable systems
- Fewer individual parts reduce logistics and mounting costs
- Clip-on fastening and self-aligning connections reduce installation complexity
- Easily expandable in length and in number of poles
- Higher stability through two-pole build and hollow chamber structure

**Program**
- 0835
Fast, cost-effective installation due to multipole design, use of different connector technologies, and simple clip-on hanger clamps

Ideal layout thanks to availability of 4, 5, 6, and 7-pole systems

Highest possible safety using box system (optionally with a sealing lip)

Small dimensions due to compact design

High flexibility, with availability as insertion, clamp, bumper, or plug system

Main applications:
- Crane systems
- Building maintenance units
- Greenhouses
- Workplace systems

Standard application data

| Nominal current range (100% duty cycle) | 10 A | 35 A | 60 A | 100 A | 140 A (80% duty cycle) |
| Nominal voltage | 690 V |
| Rail length | 4000 mm |
| Outer dimensions (pole) | 56 x 90 mm |
| Area of use | Indoor or outdoor area |
| Rail layout | Straight / curved tracks possible using factory-supplied arc elements |
| Number of poles | 4, 5, 6, or 7 poles |
| Installation orientation | Collector insertion from below |

Program 0842
Components designed to work together and the right accessories are the basis of any good system solution.

The right selection of system extension components allows you to account for a variety of operational requirements.

Original accessories from Conductix-Wampfler increase safety, availability, and the lifetime of the entire conductor rail system.

Perfect Interplay

Fast Ethernet with integrated leaky coax cable

Collector brush sensor unit for external wear control
A wide variety of different systems and conductor materials guarantees the right conductor rail for any application.

Data transmission via conductor rail with ProfiDAT® or Powertrans 1b® – up to 100 Mbit/s

Integrated barcode system on EcoClickLine conductor rail system
Custom-Services

Need more?
When you’re talking to us about conductor rails, there’s more! Whether you need more information, are looking for a solution to fit your needs, or require support on-site. We speak your language.

Talk to us – we have a solution for you!

Project planning
- Handling task specifications and parameters, and the layout of the system

Commissioning and preliminary assembly
- Preliminary assembly and assembly-oriented packaging.

Assembly and commissioning
- Installation, commissioning, and training by our technicians before being handed over to the customer

Rental service and supervisor
- Provision of assembly systems and special tools for the efficient installation of our systems
- Support as needed by an experienced supervisor from our service team

Service and maintenance
- Regular inspection of the system, replacement of wearing parts
- Cleaning and testing
- Assembly and maintenance training
- Supervision
Your Applications – Our Solutions

Conductor Rail Systems from Conductix-Wampfler represent only one of the many solutions made possible by the broad spectrum of Conductix-Wampfler components for the transport of energy, data, gases, and fluids. The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler systems can prove advantageous. You can count on all of Conductix-Wampfler’s Business Units for hands-on engineering support – coupled with the perfect solution to meet your energy management and control needs.

Festoon systems
It’s hard to imagine Conductix-Wampfler cable trolleys not being used in virtually every industrial application. They’re reliable and robust and available in an enormous variety of dimensions and designs.

Conductor rails
Whether they’re enclosed conductor rails or expandable single-pole systems, the proven conductor rails by Conductix-Wampfler reliably move people and material.

Non-insulated conductor rails
Extremely robust, non-insulated conductor rails with copper heads or stainless steel surfaces provide the ideal basis for rough applications, for example in steel mills or shipyards.

Festoon systems
It’s hard to imagine Conductix-Wampfler cable trolleys not being used in virtually every industrial application. They’re reliable and robust and available in an enormous variety of dimensions and designs.

Conductor rails
Whether they’re enclosed conductor rails or expandable single-pole systems, the proven conductor rails by Conductix-Wampfler reliably move people and material.

Non-insulated conductor rails
Extremely robust, non-insulated conductor rails with copper heads or stainless steel surfaces provide the ideal basis for rough applications, for example in steel mills or shipyards.

Jib booms
Complete with tool transporters, reels, or an entire media supply system – here, safety and flexibility are key to the completion of difficult tasks.

Conveyor systems
Whether manual, semiautomatic or with Power & Free – flexibility is achieved with full customization concerning layout and location.

Motorized Cable & Hose Reels
Motorized reels by Conductix-Wampfler hold their own wherever energy, data, media and fluids have to cover the most diverse distances within a short amount of time – in all directions, fast and safe.

Spring Cable & Hose Reels
With their robust and efficient design Spring Cable and Hose Reels from Conductix-Wampfler are unbeatably reliable in supplying energy, signals, data and fluids to a vast range of tools, cranes and vehicles.

Inductive Power Transfer IPT®
The no-contact system for transferring energy and data. For all tasks that depend on high speeds and absolute resistance to wear.

Retractors and Balancers
Our wide range of high reliable retractors and balancers remove the load from your shoulders and allow you to reach top productivity.

Energy guiding chains
The “Jack of all trades” when it comes to transferring energy, data, air and fluid hoses. With their wide range, these energy guiding chains are the ideal solution for many industrial applications.

Slip ring assemblies
Whenever things are really “moving in circles”, the proven slip ring assemblies by Conductix-Wampfler ensure the flawless transfer of energy and data. Here, everything revolves around flexibility and reliability!
Conductix-Wampfler
has just one critical mission:
To provide you with energy and
data transmission systems that
will keep your operations up
and running 24/7/365.

To contact your nearest
sales office, please refer to:
www.conductix.com/
contact-search