Conductor Rail System for Shuttles
MultiLine Program 0835
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Conductor Rail System for Shuttles
MultiLine 0835

General Information

The multi-pole, modular, compact conductor rail system MultiLine 0835 is designed specifically for use in intralogistics; e.g. shuttle systems or transfer units. Its space-efficient dimensions and layout with an expandable number of poles (including protective earth) enables flexible use in similar applications, such as automated small-parts storage systems, longitudinal feeding units, or electric shearing stations in the packaging and paper industries.

Optimized handling, a limited number of parts, and an easy connecting method were the main goals for the design of this multi-pole small conductor rail system, significantly reducing the time needed for preparation and installation on-site.

Small conductor rails are mainly used when available installation room inside the track profile is constricted. In many cases the rails need to be installed without proper visibility at the installation site. The MultiLine 0835 system is specifically designed to aid the installer in such situations, with details such as tactile markings, self-centering connectors, sturdy clip-on elements, and simple, compact installation appliances.

System Advantages

- Faster, easier installation due to the rigid rail profile and the need for half as many rail brackets as similar systems
- Fewer parts that reduce logistic and installation expenditures
- Predefined connections by using plug-in claw type fasteners
- Reduced installation work due to clip-on fastening and self-aligning connections
- Expandable system length and number of poles
- High rigidity through 2-pole structure and hollow-chamber profiles
- Available as 2 x phase and phase + PE (protective earth) versions
Conductor Rail System for Shuttles

**MultiLine 0835**

### Main Features at a Glance

- **Material requirements** (without Current Collectors):
  
  Only few single components are needed for a 2-pole aisle.

Example of a 2-pole aisle, length 65 m
(without Current Collectors and Cables):

<table>
<thead>
<tr>
<th>Qty</th>
<th>Parts</th>
<th>Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>End Segment kit with anchor point and optional power feed</td>
<td>2 x 750 mm system length = 1.5 m</td>
</tr>
<tr>
<td>16</td>
<td>Rails @ 4000 mm to cover aisle length incl. 1 fitting part @ 3.5 m (pre-cut)</td>
<td>65 m - 1.5 m = 63.5 m/4 m = 16 pcs. (65 m - 1.5 m - (15 x 4 m) = 3.5 m)</td>
</tr>
<tr>
<td>18</td>
<td>Connectors complete (2 x Connectors + 1 x Connector cap)</td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>Rail Brackets</td>
<td>65/0.8 + 2 = 84 pcs. net.</td>
</tr>
</tbody>
</table>

Material not used in every aisle:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Spare parts pack</td>
</tr>
<tr>
<td>1</td>
<td>Assembly kit</td>
</tr>
</tbody>
</table>

### Installation

Installation can be completed in a few steps, mostly without any tools. Each part is designed to ensure the correct mounting position primarily by feel, taking into account the low visibility and constricted installation space often prevalent in warehouse aisles.

Your installation – our responsibility!
## Conductor Rail System for Shuttles
### MultiLine 0835

### Technical Data

<table>
<thead>
<tr>
<th>System and application area</th>
<th>2-pole conductor rail for aisles in shuttle systems and automated small-parts storage systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation position</td>
<td>Horizontal rail direction with current collectors engaged laterally (see illustration below)</td>
</tr>
<tr>
<td>Rated rail length</td>
<td>4000 mm +/-2 mm at 20°C</td>
</tr>
<tr>
<td>Suspension spacing</td>
<td>Rated length 800 mm</td>
</tr>
<tr>
<td>System length</td>
<td>Typically 120 m (greater lengths possible, depending on voltage drop and power feed concept)</td>
</tr>
<tr>
<td>Travel speed</td>
<td>300 m/min</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>230/400 V AC – protective/low voltage min. 24 up to 48 V DC/AC</td>
</tr>
<tr>
<td>Current load</td>
<td>Overall system: 32 A (100% duty cycle)</td>
</tr>
<tr>
<td>Min. current</td>
<td>1 A (recommended)</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 2X as defined by IEC ;EN 60529 ¹</td>
</tr>
<tr>
<td>Resistance at 35°C</td>
<td>0.000747 [Ω/m]</td>
</tr>
<tr>
<td>Impedance at 50 Hz/35°C</td>
<td>0.000745 [Ω/m]</td>
</tr>
<tr>
<td>Conductor cross section/material</td>
<td>25 mm² copper strip, roll-formed and tempered (Cu-ETP)</td>
</tr>
<tr>
<td>Permitted ambient temperature</td>
<td>-5°C up to + 60°C (Max. temperature difference ΔT = 40 K)</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>Benzine, petroleum, greases, sodium hydroxide 25%, hydrochloric acid, sulphuric acid 50%. Data based on 45°C ambient temperature and temporary exposure, including non-critical deterioration (e.g. signs of oxidation, discoloration) – please contact us for more information</td>
</tr>
<tr>
<td>PVC material *</td>
<td></td>
</tr>
<tr>
<td>Dimensions, weights, system grid</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>38 mm (incl. standard rail brackets)</td>
</tr>
<tr>
<td>Depth</td>
<td>98 mm (incl. standard rail brackets and current collectors)</td>
</tr>
<tr>
<td>System length</td>
<td>Optional, nominal rail length: 4000 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.58 kg/m</td>
</tr>
<tr>
<td>Insulating cover (stabilized hard PVC; safety warning color (RAL 1018))</td>
<td></td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>22.4 kV/mm as defined by DIN 53481</td>
</tr>
<tr>
<td>Flammability</td>
<td>Meets requirements for insulating materials as defined by UL 94 V-0; flame-retardant and self-extinguishing as defined by (IEC) DIN EN 60895-11-10B3, 3 UL-Certificate: ELPX.E16232</td>
</tr>
<tr>
<td>Relevant standards</td>
<td></td>
</tr>
<tr>
<td>DIN EN 60204-1; VDE 0113-1:2007-06</td>
<td>Safety of machines - electrical equipment of machines - Part 1: General requirements (IEC 60204 - 1:2005, modified); German edition EN 60204-1:2006</td>
</tr>
</tbody>
</table>

¹ Protection class refers to the complete conductor rail system excluding current collectors. On-site provisions are necessary to avoid accidental contact with the current collectors if the voltage is higher than 48 V AC/60 V DC.

* Indicative parameters: please contact us if more aggressive agents are present, e.g. aromates such as solvents and flavor enhancers.

Note: subject to technical change. We recommend consulting Conductix-Wampfler if the system is to be used in applications or conditions other than stated to ensure technical feasibility. Technical statements may restrict each other. In case of doubt we recommend consulting for feasibility.
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Conductor Rails

Standard rails (4 m length) can be carried easily by one person. Rails can be shortened on-site with a bow saw or jig saw. When ordered in higher quantities, rails shorter than 4 m can be factory-made by request.

- Rated length: 4000 mm
- Insulation: PVC
- Conductor material: copper
- Cross section: 2 x 25 mm²

End Segment (End Power Feed)

Designed as closing and optional power feed for the conductor rails, an end segment (standard length 750 mm) is required on both ends of the rail system. The end segment with end cap link serves as an anchor point.

- Rated length: 2 x 750 mm
- Insulation: PVC
- Conductor material: copper
- with optional power feed incl. ring cable lug
- max. cable cross section: 6 mm²

Scope of delivery: 2 x end segment with optional power feed (cable lug), excl. cable

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Conductor material</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>083516-4X21X11*</td>
<td>2-pole PH (without protective conductor indication)</td>
<td>Copper</td>
<td>2.3</td>
</tr>
<tr>
<td>083516-4X21X12*</td>
<td>2-pole PE (with protective conductor indication)</td>
<td>Copper</td>
<td>2.3</td>
</tr>
</tbody>
</table>

* Standard range

SAP Config.-No. for shorter rails: 3134856

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Connection</th>
<th>Ampere [A]</th>
<th>No. of segments</th>
<th>Poles</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>083553-260X211*</td>
<td>End feed 0835 Cu 2P PH 2.5 mm²</td>
<td>2.5 mm²</td>
<td>24</td>
<td>2</td>
<td>2 x PH</td>
<td>0.5</td>
</tr>
<tr>
<td>083553-260X212*</td>
<td>End feed 0835 Cu 2P PE 2.5 mm²</td>
<td>2.5 mm²</td>
<td>24</td>
<td>2</td>
<td>1 x PH + 1 x PE</td>
<td>0.5</td>
</tr>
<tr>
<td>083553-260X611*</td>
<td>End feed 0835 Cu 2P PH 6.0 mm²</td>
<td>6.0 mm²</td>
<td>32</td>
<td>2</td>
<td>2 x PH</td>
<td>0.5</td>
</tr>
<tr>
<td>083553-260X612*</td>
<td>End feed 0835 Cu 2P PE 6.0 mm²</td>
<td>6.0 mm²</td>
<td>32</td>
<td>2</td>
<td>1 x PH + 1 x PE</td>
<td>0.5</td>
</tr>
</tbody>
</table>

* Standard range
Conductor Rail System for Shuttles

**MultiLine 0835**

**Rail Connectors**

Plug-in connectors for two conductor rails. Consisting of:

- two plug-in connectors for conductor rails
- one connector cap (with centering function)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>For rail material</th>
<th>Poles</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>083526-6*</td>
<td>Connector 0835 2P PL Cu</td>
<td>copper</td>
<td>2</td>
<td>0.05</td>
</tr>
</tbody>
</table>

* Standard range

**Standard Rail Brackets**

As an alternative to standard rail brackets, rail brackets for specific track profiles can be custom-made (see page 10 for examples).

- Fastened by plastic expanding rivets
- Max. thickness of mounting surface: 6 mm
- Rated suspension spacing: 800 mm
- Minimum distance to connector cap: 150 mm

Delivery includes expanding rivets.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Pack size</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>083548-02-14*</td>
<td>Rail brackets, incl. expanding rivets</td>
<td>20 pcs.</td>
<td>0.01</td>
</tr>
</tbody>
</table>

* Standard range
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Customized Rail Brackets

Fastening the rail brackets takes a considerable amount of the installation time. Because system 0835 uses only half as many rail brackets as similar systems, installation takes correspondingly less time. To further optimize the system, we can design, produce, and deliver customized (clip-on) brackets, matching the manufacturer’s track profile.

Here are two examples of customized rail brackets, adapted for the customer’s track profile:

Current Collector Units

The current collectors are clipped into the supporting plate, which allows for easy replacement without tools.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Brush material</th>
<th>Rated current</th>
<th>PH/PE</th>
<th>PE Position</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>081508-02415*</td>
<td>Graphite</td>
<td>2 x 16 A</td>
<td>PH</td>
<td>–</td>
<td>0.1</td>
</tr>
<tr>
<td>081508-02435*</td>
<td>Graphite</td>
<td>2 x 16 A</td>
<td>PE</td>
<td>1</td>
<td>0.1</td>
</tr>
<tr>
<td>08-S265-2287*</td>
<td>Copper graphite</td>
<td>2 x 16 A</td>
<td>PE</td>
<td>2</td>
<td>0.1</td>
</tr>
<tr>
<td>081509-02415*</td>
<td>Copper graphite</td>
<td>2 x 25 A</td>
<td>PH</td>
<td>–</td>
<td>0.1</td>
</tr>
<tr>
<td>081509-02435*</td>
<td>Copper graphite</td>
<td>2 x 25 A</td>
<td>PE</td>
<td>1</td>
<td>0.1</td>
</tr>
<tr>
<td>08-S265-2288*</td>
<td>Copper graphite</td>
<td>2 x 25 A</td>
<td>PE</td>
<td>2</td>
<td>0.1</td>
</tr>
</tbody>
</table>

* Standard range

Note:

To ensure proper functioning of the system, the precise mounting position of the current collectors, the right connection cable and its routing need to be taken into account (see system layout, page 13). The connection cables should be fine-stranded (as defined by DIN VDE 0295, Class 6) and highly flexible. Installation of the PE current collector in position “PE” only.
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Connection Cables with a straight Push-In Sleeve for free installation

The Connection cables are highly flexible with double insulation (PH) or single insulation (PE).
Order in the required length and size.

Connection Cables: PH = black, PE = yellow/green

<table>
<thead>
<tr>
<th>Cross section [mm²]</th>
<th>Part No.</th>
<th>Protective earth (PE)</th>
<th>Length [m]</th>
<th>Cable diameter [mm]</th>
<th>Ampere [A]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>081109-0,5 x 1,5 x 21</td>
<td>081109-0,5 x 1,5 x 42</td>
<td>0.5</td>
<td>4/3</td>
<td>24</td>
<td>0.023</td>
</tr>
<tr>
<td>1.5</td>
<td>081109-1 x 1,5 x 21</td>
<td>081109-1 x 1,5 x 42</td>
<td>1</td>
<td>4/3</td>
<td>24</td>
<td>0.023</td>
</tr>
<tr>
<td>2.5</td>
<td>081109-0,5 x 2,5 x 21</td>
<td>081109-0,5 x 2,5 x 42</td>
<td>0.5</td>
<td>5/3.5</td>
<td>32</td>
<td>0.037</td>
</tr>
<tr>
<td>2.5</td>
<td>081109-1 x 2,5 x 21</td>
<td>081109-1 x 2,5 x 42</td>
<td>1</td>
<td>5/3.5</td>
<td>32</td>
<td>0.037</td>
</tr>
<tr>
<td>4</td>
<td>081109-1 x 4 x 21</td>
<td>081109-1 x 4 x 42</td>
<td>1</td>
<td>6</td>
<td>42</td>
<td>0.059</td>
</tr>
</tbody>
</table>

Other lengths and sizes available by request

SAP Config.-No. for cables: 3126191

Connection Cables with a straight Push-In Sleeve for protected installation

The Connection cables are highly flexible with single insulation.
Order in the required length and size.

Connection Cables: PH = black, PE = yellow/green

<table>
<thead>
<tr>
<th>Cross section [mm²]</th>
<th>Part No.</th>
<th>Protective earth (PE)</th>
<th>Length [m]</th>
<th>Cable diameter [mm]</th>
<th>Ampere [A]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>081109-0,5 x 1,5 x 41</td>
<td>081109-0,5 x 1,5 x 42</td>
<td>0.5</td>
<td>3</td>
<td>24</td>
<td>0.016</td>
</tr>
<tr>
<td>1.5</td>
<td>081109-1 x 1,5 x 41</td>
<td>081109-1 x 1,5 x 42</td>
<td>1</td>
<td>3</td>
<td>24</td>
<td>0.016</td>
</tr>
<tr>
<td>2.5</td>
<td>081109-0,5 x 2,5 x 41</td>
<td>081109-0,5 x 2,5 x 42</td>
<td>0.5</td>
<td>3.5</td>
<td>32</td>
<td>0.034</td>
</tr>
<tr>
<td>2.5</td>
<td>081109-1 x 2,5 x 41</td>
<td>081109-1 x 2,5 x 42</td>
<td>1</td>
<td>3.5</td>
<td>32</td>
<td>0.034</td>
</tr>
</tbody>
</table>

Other lengths and sizes available by request

SAP Config.-No. for cables: 3126191

Connection Cables with a right-angle Push-In Sleeve for protected installation

The connection cables are highly flexible with single insulation.
Order in the required length and size.

Connection Cables: PH = black, PE = yellow/green

<table>
<thead>
<tr>
<th>Cross section [mm²]</th>
<th>Part No.</th>
<th>Protective earth (PE)</th>
<th>Length [m]</th>
<th>Cable diameter [mm]</th>
<th>Ampere [A]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>081509-0,5 x 1,5 x 41</td>
<td>081509-0,5 x 1,5 x 42</td>
<td>0.5</td>
<td>3</td>
<td>24</td>
<td>0.016</td>
</tr>
<tr>
<td>1.5</td>
<td>081509-1 x 1,5 x 41</td>
<td>081509-1 x 1,5 x 42</td>
<td>1</td>
<td>3</td>
<td>24</td>
<td>0.016</td>
</tr>
<tr>
<td>2.5</td>
<td>081509-0,5 x 2,5 x 41</td>
<td>081509-0,5 x 2,5 x 42</td>
<td>0.5</td>
<td>3.5</td>
<td>32</td>
<td>0.034</td>
</tr>
<tr>
<td>2.5</td>
<td>081509-1 x 2,5 x 41</td>
<td>081509-1 x 2,5 x 42</td>
<td>1</td>
<td>3.5</td>
<td>32</td>
<td>0.034</td>
</tr>
</tbody>
</table>

Other lengths and sizes available by request

SAP Config.-No. for cables: 3126191

Note:
Double-insulation cables must be used with voltages higher than 48 V. Power rating according to VDE 0298-4, installation type C at 100% duty cycle, ambient temperature 30°C, 1.5 mm² max. 19.5 A, 2.5 mm² max. 27 A, 4.0 mm² max. 36 A, 6.0 mm² max. 46 A. Cables in accordance with DIN VDE 0298 part 4; Connector in accordance with DIN 46 257 part 3.
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Assembly Kit

The stopper is clamped to the first profile, to join the rails together with a mounting cap and a soft-head hammer.

Material: shock-resistant plastic

Contents:
1 x Stopper
1 x Mounting cap

Spare Parts Pack

The pack includes all small parts to replace missing or worn parts, as well as stopper and mounting cap.

Contents:
1 x End cap link
4 x End caps complete incl. clamping unit
4 x Crimp ring cable lugs 2.5 mm²
4 x Crimp ring cable lugs 6.0 mm²
2 x Connector caps
4 x Plug connectors to join copper rails
5 x Standard rail brackets
12 x Expanding rivets
1 x Assembly kit

Current Collector Replacement and Spare Parts

Note: We recommend replacing the entire current collector rather than just the shoe. In addition to the abrasion on the collector shoe, the bearings, joints, and springs of the current collectors wear out over time.

Part No. | Description | Pack size | Weight [kg]
--- | --- | --- | ---
08-V015-0463* | Assembly kit | 1 | 0.8

* Standard range

Part No. | Description | Pack size | Weight [kg]
--- | --- | --- | ---
08-S089-0002* | Spare parts pack | 1 | 1.0

* Standard range

Part No. | Description | Rated current/brush material | Weight [kg]
--- | --- | --- | ---
081508-01415* | Dual current collector 1P 2 x 16 A PH REV | 32 A graphite | 0.050
081508-01425* | Dual current collector 1P 2 x 16 A PE REV | 32 A graphite | 0.050
081509-01415* | Dual current collector 1P 2 x 25 A PH REV | 50 A copper graphite | 0.050
081509-01425* | Dual current collector 1P 2 x 25 A PE REV | 50 A copper graphite | 0.050
08-S138-0170-001 | Mounting plate for current collector – PE Position (1) (see page 10) | – | 0.050
08-S138-0170-002 | Mounting plate for current collector – PE Position (2) (see page 10) | – | 0.050

* Standard range

Part No. | Description | Pack size | Weight [kg]
--- | --- | --- | ---
08-V015-0463* | Assembly kit | 1 | 0.8

* Standard range

Part No. | Description | Pack size | Weight [kg]
--- | --- | --- | ---
08-S089-0002* | Spare parts pack | 1 | 1.0

* Standard range

Part No. | Description | Rated current/brush material | Weight [kg]
--- | --- | --- | ---
081508-01415* | Dual current collector 1P 2 x 16 A PH REV | 32 A graphite | 0.050
081508-01425* | Dual current collector 1P 2 x 16 A PE REV | 32 A graphite | 0.050
081509-01415* | Dual current collector 1P 2 x 25 A PH REV | 50 A copper graphite | 0.050
081509-01425* | Dual current collector 1P 2 x 25 A PE REV | 50 A copper graphite | 0.050
08-S138-0170-001 | Mounting plate for current collector – PE Position (1) (see page 10) | – | 0.050
08-S138-0170-002 | Mounting plate for current collector – PE Position (2) (see page 10) | – | 0.050

* Standard range
To allow for thermal expansion of the system, only one anchor point must be placed at the start of the installation. The end segment with end cap link also serves as an anchor point.
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MultiLine 0835 – FAQ

Is a vertical installation possible, e.g. on an automated small-parts storage system mast?
The system is designed and optimized for horizontal installation. Suitability in vertical installations, especially in regards to highly dynamic movements, depends on technical requirements and installation sites. Please contact us for possible approval and part modifications.

Are curved sections feasible?
The purposely rigid structure of the rails does not allow curved sections. If required, parts from a compatible product line can be combined with the 0835 system. Please contact us and provide a drawing of the intended layout.

Can the rails be easily replaced in case of damage?
If the system is precisely installed in a secure location within a shuttle application, mechanical or electrical damages to the rails are unlikely to occur. However, rails can be replaced after shutting off the system and following these steps:
- Using a flat-blade screwdriver, unclip the rail from the brackets ahead and behind the place of repair, and cut off the damaged part with a bow saw or jig saw.
- Deburr the rail. Pull down the insulating profile a few centimeters and cut off 5 mm of the insulation. Measure the fitting piece and cut accordingly. Reinstall the rail and connect, using new rail connectors.

What is the maximum amperage of the system?
The system is designed for a rated continuous current of 32 A. This value is significantly higher than the average power consumption of shuttle applications. The declaration of a cross section of 100 A on rails is necessary to factor in voltage drop.

Is it possible to configure a three-phase system?
A 400 V-system with three phase (PH) conductors and one protective earth (PE) conductor is feasible by combining two rail pairs (1 x 2-poles PH and 1 x 2-poles PH and PE). According to international standards the protective earth (PE) conductor is marked green and yellow to prevent confusion with phase (PH) conductors.

How much time can actually be saved during installation?
Time measurements taken during installations in shuttle applications and transfer units show that fewer installation parts (-65%) and ease of handling (due to the design of the parts) reduce distribution and installation times by 50% to 60% when compared to similar single-pole small-scale conductor rail systems.

Are there other benefits?
Fewer parts and pieces means easier purchasing logistics. Another benefit is the easy installation due to plug-in claw type fasteners. This technology allows for fast personnel training and ensures reproducible and continuous contact quality. Undetected mistakes made during installation are prevented, insofar as feasibly possible.

Is the MultiLine 0835 system compatible to the SingleFlexLine 0815 system?
Conductor material and geometry, as well as current collectors and basic dimensions have been adapted from the 0815 system. Upgrading from 0815 to 0835 is possible without exchanging any of the moving parts. With little modification, the systems can be form-fitted, or parts from the 0815 system can be integrated into the new 0835 system.
Your applications – our Solutions

Conductor Rails are just one component of the many solutions from the broad spectrum of Conductix-Wampfler energy, data, and handling systems. Which solution is the right one for your application always depends on the specific application situation. A combination of multiple Conductix-Wampfler products often provides very attractive advantages. Consulting and engineering competence are at your command in our companies and representatives around the world – as well as our solutions!

**Conductor rails**
Whether they’re a box conductor rail or an extendible single-pole system, familiar Conductix-Wampfler conductor rails get people and material moving reliably.

**Non-insulated conductor rails**
Extremely robust, non-insulated conductor rails with copper head or stainless steel support surface are the ideal basis for harsh use e.g. in steel plants or ports.

**Energy chains**
The jack-of-all-trades when it comes to energy, data and media transfer. With the breadth of their product range, energy chains have a permanent place in industrial applications.

**Festoon systems**
Conductix-Wampfler festoon systems are a fixed part of any industrial application: reliable and robust and available in an enormous variety of dimensions and variants.

**Cable reels**
Motorized and spring cable reels from Conductix-Wampfler have their place wherever energy, data and media must travel a wide variety of distances in a short time – in any direction, quickly and safely.

**Slip ring bodies**
Wherever things have to be smooth and round, tried and trusted slip ring bodies from Conductix-Wampfler provide interruption-free energy and data transmission. The focus here is on flexibility and reliability!

**Inductive Power Transfer IPT®**
The contact-free system for energy and data transmission. For high speeds absolutely free of wear.

**Take-up reels and spring balancers**
Whether for hoses or cables, as classic take-up reel or high-precision positioning aids for tools – take-up reels and spring balancers from Conductix-Wampfler take the load off you.

**Conveyor systems**
Whether manual, semiautomatic or with Power & Free – a high degree of individuality is guaranteed when it comes to layout requirements and the place of use.

**Jib booms**
Installed with tool transporters, trolleys or complete media feed – safety and flexibility are brought together here when handling tough tasks.
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