

# ProShell Support Profile for AS/RS and Transfer Cars

Program Supplement for Conductor Rail Systems SinglePowerLine 0812 & MultiLine 0831



**CONDUCTIX**  
wampfler



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# ProShell Support Profile

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## System Description

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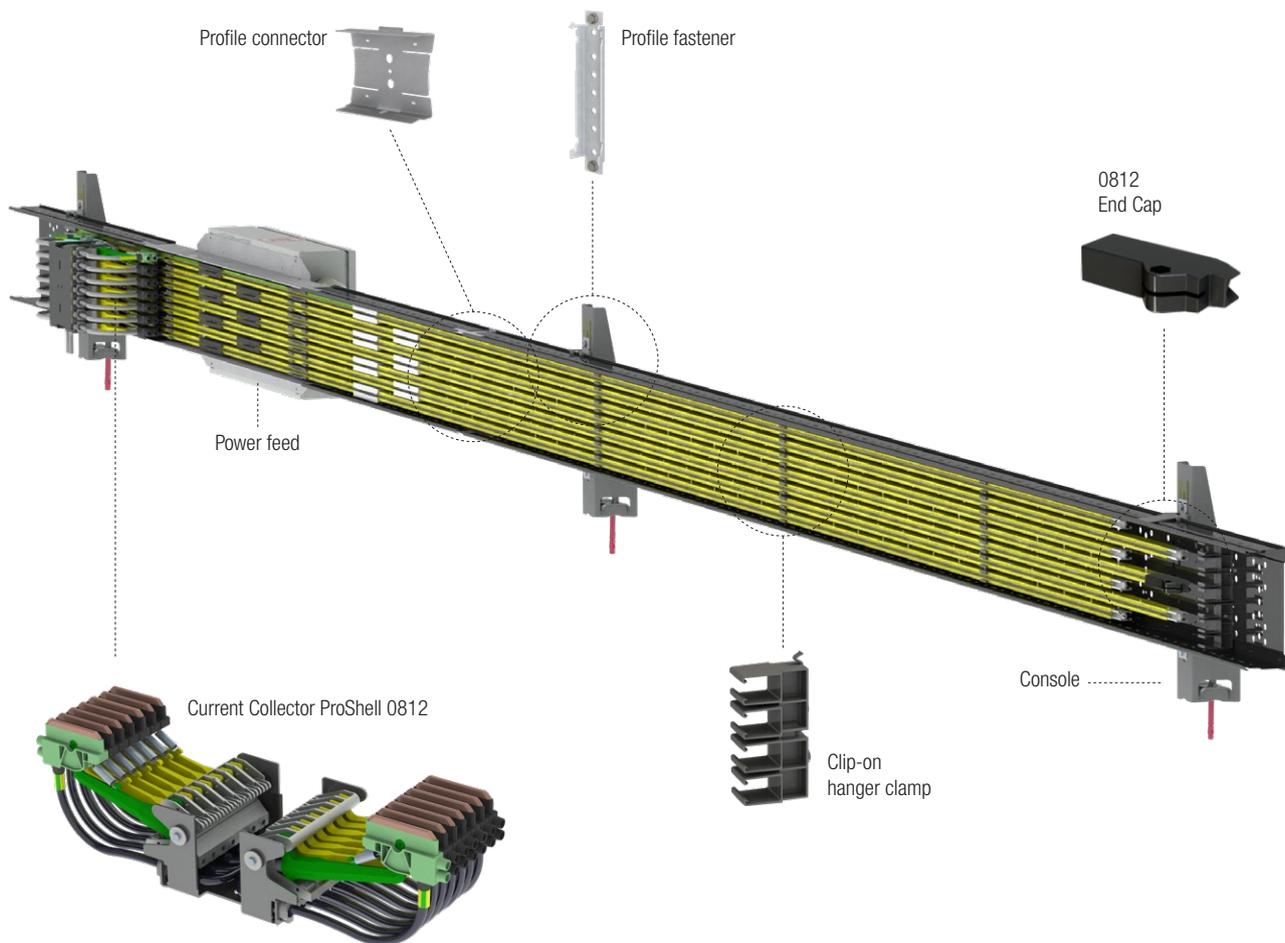
The ProShell Support Profile has been designed as a substructure for Conductor Rail Systems SinglePowerLine 0812 and MultiLine 0831 – to supply automated storage and retrieval systems, transfer cars, and similar applications with electrical power.

ProShell is a modular, quick-assembly system that allows fast and secure integration of the conductor rails into warehouse and logistics applications with straight track layouts. It includes components to easily connect the rail system to the shelf uprights or floor mounting brackets. The components are support profiles, profile connectors, profile fasteners, and clip-on hanger clamps to accommodate the conductor rails, as well as optional slotted consoles.

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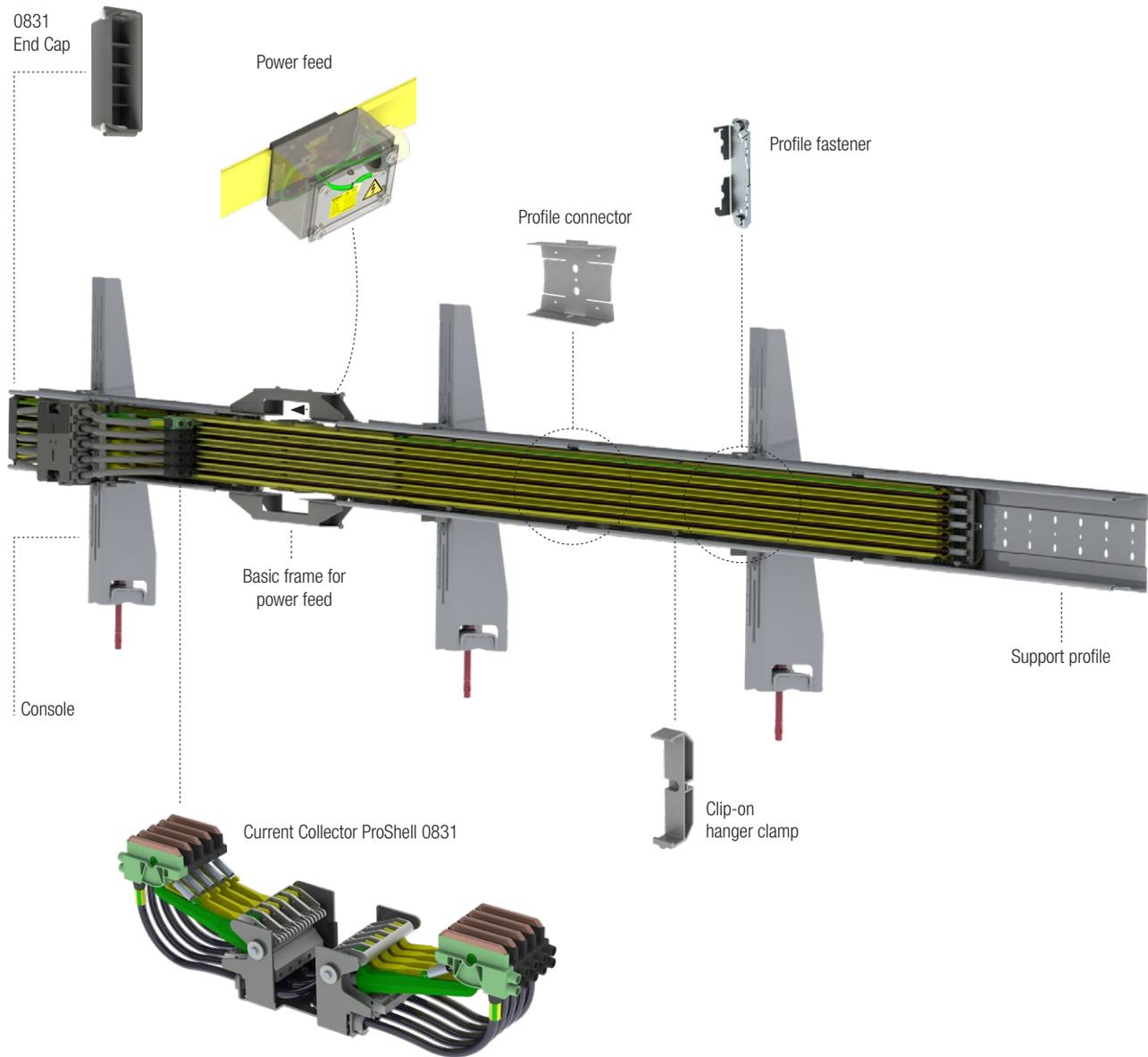
## ProShell with Conductor Rail Program SinglePowerLine 0812

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# ProShell Support Profile

## ProShell with Conductor Rail Program MultiLine 0831



# ProShell Support Profile

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## The clever Mounting Solution

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The support profile system protects the conductor rails and permits easy integration into warehouse and logistics applications with straight track layouts.

For the planner, this means a standardized, flexible interface and installation space for various numbers of poles and amperages.

Elaborate installation plans are a thing of the past due to variable positioning of the connecting points (quick system fastening) on present shelves, or the optionally available single-hole system consoles.

ProShell is synonymous with robust, sophisticated mounting of conductor rails, as well as economical planning and installation.

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## System Advantages

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- Straight forward handling
- Fast, economical, and easy installation
- Adjustable to the conditions on location
- Supporting structure and protection for Conductix-Wampfler conductor rails
- One system for all capacity ranges 4 to 8 poles, up to 400 A (100% duty cycle)
- Suitable for higher capacities when using energy recovery
- Rounded edges and an optimized assembly load help to prevent injuries
- Easy handling of 4 m component lengths (can be assembled by one person and no excess lengths)
- Variable positioning of the connecting points throughout the system
- Accommodates various standard conductor rail types
- Long support distances (up to 3.2 m)
- Highly flexible and expandable
- Compact modules to accommodate various Conductix-Wampfler conductor rails
- Customized profile fasteners for installation on shelves available by request
- Ready for electrical bonding
- Additional functions are easily integrated, e.g. position detection, data transmission and position markings
- Large cross-sections are energy efficient (aluminum, copper, or Copper **ECO III**)



# ProShell Support Profile

## Technical Data

|                                  |  |
|----------------------------------|--|
| <b>Material:</b>                 | Roll-formed galvanized steel profile with rounded edges and high torsional stiffness   |
| <b>Corrosion protection:</b>     | galvanized   |
| <b>Installation dimensions:</b>  | Height: 123 mm, depth: 183 mm (including <b>MultiLine 0831</b> Current Collector in compact design)<br>Height: 123 mm, depth: 212 mm (including <b>SinglePowerLine 0812</b> Current Collector in compact design) |
| <b>Rated suspension spacing:</b> | 3200 mm  |
| <b>Connection to shelves:</b>    | By means of screwed-on profile fasteners (customized clip-on or clamping solutions available)  |
| <b>Conductor rails:</b>          | <b>MultiLine 0831</b> or <b>SinglePowerLine 0812</b> conductor rail types (rated current: 10 to 400 A)   |
| <b>Options:</b>                  | Integrated positioning system  |

## Modular Concept

The support profile system is provided in convenient modules. It consists of a basic module with a power feed for **SinglePowerLine 0812** or **MultiLine 0831** conductor rail systems, extension modules for the track sections and accessories to interface with the customer's structure (profile fasteners, slotted consoles, as well as accessories for positioning, switching marks, etc.).

Example bill of materials for a 89 m lane, 3.2 m shelf upright distance, and shelf length of 84 m, ProShell 128

| Position | Quantity   | Part No.           | Designation           | Comment  |
|----------|--|--------------------|-----------------------|--|
| 10       | 1  | 08-E015-05XX       | Basic module          | Variant depending on conductor rail type/number of poles (basic modules: see p. 8/9) |
| 20       | 2  | 080043-4311-4-1-C8 | Extension module 32 m | 8 profiles each at 4 m incl. profile connectors                                      |
| 30       | 3  | 080043-4311-4-1-C2 | Extension module 8 m  | 2 profiles each at 4 m incl. profile connectors                                      |
| 40       | 6  | 080043-11x11x0XXX  | Slotted consoles      | Pack of 5 pcs. for area in front of shelf (height of consoles "H": see page 12)      |
| 50       | 6  | 080043-4311-11     | Profile fasteners     | Pack of 5 pcs.   |
| 60       | 5  | 08-S280-06xx       | Rail clamps           | Pack of 20 pcs., according to conductor rail type                                    |
| 70 ff.   | Conductor rail components from programs SinglePowerLine 0812 or MultiLine 0831 |                    |                       |  |



# ProShell Basic Modules

## Basic Modules Overview

Basic modules include all material needed for a single lane. Different designs are used depending on the conductor rail program, the number of poles, and power feed connection being used.

### Every basic module includes:

- a basic framework for power feed or a terminal box
- the power-feed itself for the conductor rails (depending on variant)
- the necessary type and number of end caps
- the necessary type and number of rail anchor clamps
- the necessary type and number of profile anchor clamps
- the cut-to-length material for ProShell
- a small parts kit incl. a selection of spare parts
- installation documents



| Available Options |                      |         |         |         |         |         |
|-------------------|----------------------|---------|---------|---------|---------|---------|
|                   | Program              | 4 poles | 5 poles | 6 poles | 7 poles | 8 poles |
| ProShell 128      | SinglePowerLine 0812 | 4       | –       | –       | –       | –       |
|                   | MultiLine 0831       | 4       | 5       | –       | –       | –       |
| ProShell 206      | SinglePowerLine 0812 | –       | 5       | –       | 7       | –       |
|                   | MultiLine 0831       | –       | –       | 3 + 3   | 4 + 3   | 4 + 4   |

## Basic Module for Program SinglePowerLine 0812

ProShell basic modules for SinglePowerLine 0812 include all material needed for a single lane and have their own power feed. A different number of poles, conductor rail materials and types of power feed are available. Power is fed via a terminal box or connecting cable.

- Length 2 m
- Basic framework for power feed
- One 1 m long ProShell support profile and 2 profile connectors
- 2 ProShell anchor clamps
- One power feed incl. cut-to-length material
- Two rail anchor clamps per pole
- Two rail end caps per pole
- one rail connector per pole
- suitable compact hanger clamps



| Part No.     | ProShell | Program              | Poles | Type             | Material                | Description  |
|--------------|----------|----------------------|-------|------------------|-------------------------|--|
| 08-E015-0542 | 128      | SinglePowerLine 0812 | 4     | Terminal box     | Copper <b>ECO III</b> * | Conductor rail rated current 320 A, Terminal box with 1 x M63 screw fitting          |
| 08-E015-0526 | 128      |                      | 4     | Connecting cable |                         | Conductor rail rated current 320 A, 2 x 50 mm <sup>2</sup> connecting cable per pole |
| 08-E015-0530 | 128      |                      | 4     | Connecting cable | Copper                  | Conductor rail rated current 400 A, 2 x 50 mm <sup>2</sup> connecting cable per pole |
| 08-E015-0692 | 206      |                      | 5     | Terminal box     | Copper <b>ECO III</b> * | Conductor rail rated current 320 A, Terminal box with 2 x M63 screw fitting          |
| 08-E015-0693 | 206      |                      | 7     | Terminal box     |                         | Conductor rail rated current 320 A, Terminal box with 2 x M63 screw fitting          |

\* Copper**ECO III** basic modules can be used with conductor rails SinglePowerLine 0812 both made from CopperECO or aluminum stainless steel.

# ProShell Basic Modules

## Basic Module for Program MultiLine 0831

ProShell basic modules for MultiLine 0831 include all material needed for a single lane; they do not have their own power feed. They can have a different number of poles, but only one type of conductor rail material and one type of power feed.

Suitable power feeds can be found in the MultiLine 0831 catalog. Types of power feed that can be used are: MultiLine 083151, MultiLine 083154, and MultiLine 083152.

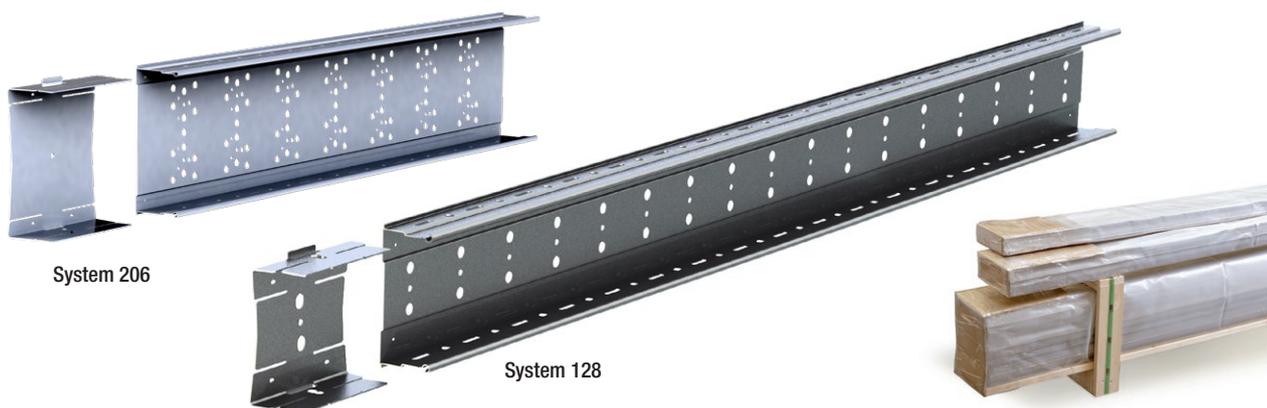
- Length 1.5 m
- Basic framework for power feed
- One 1 m long ProShell support profile and 1 profile connector
- 2 ProShell anchor clamps
- excl. conductor rails and power feed
- suitable anchor clamps and end caps for the conductor rail



| Part No.     | ProShell | Program        | Poles | Type      | Description                                   |
|--------------|----------|----------------|-------|-----------|---|
| 08-E015-0528 | 128      | MultiLine 0831 | 4     | Framework | Basic module ProShell 128 MultiLine 0831 4P   |
| 08-E015-0529 | 128      | MultiLine 0831 | 5     | Framework | Basic module ProShell 128 MultiLine 0831 5P   |
| 08-E015-0602 | 206      | MultiLine 0831 | 4 + 3 | Framework | Basic module ProShell 206 MultiLine 0831 4+3P |
| 08-E015-0597 | 206      | MultiLine 0831 | 4 + 4 | Framework | Basic module ProShell 206 MultiLine 0831 4+4P |

## Extension Modules

Extension modules include 4 m length support profiles and profile connectors. Available in three different packaging sizes.



| Part No.            | Extension Module | No. of profiles | Weight [kg] | Description                          |
|---------------------|------------------|-----------------|-------------|--------------------------------------|
| 080043-4311-1-1-C2  | ProShell 128     | 2 x 1 m         | 3.9         | Ausbaumodell ProShell 128 0800 2 m   |
| 080043-4311-4-1-C2  | ProShell 128     | 2 x 4 m         | 16.5        | Ausbaumodell ProShell 128 0800 8 m   |
| 080043-4311-4-1-C8  | ProShell 128     | 8 x 4 m         | 66          | Ausbaumodell ProShell 128 0800 32 m  |
| 080043-4311-4-1-C64 | ProShell 128     | 64 x 4 m        | 528         | Ausbaumodell ProShell 128 0800 256 m |
| 080043-4121-1-1-C2  | ProShell 206     | 2 x 1 m         | 6.8         | Ausbaumodell ProShell 206 0800 2 m   |
| 080043-4121-4-1-C2  | ProShell 206     | 2 x 4 m         | 23.9        | Ausbaumodell ProShell 206 0800 8 m   |
| 080043-4121-4-1-C8  | ProShell 206     | 8 x 4 m         | 95.5        | Ausbaumodell ProShell 206 0800 32 m  |
| 080043-4121-4-1-C48 | ProShell 206     | 48 x 4 m        | 573.2       | Ausbaumodell ProShell 206 0800 192 m |

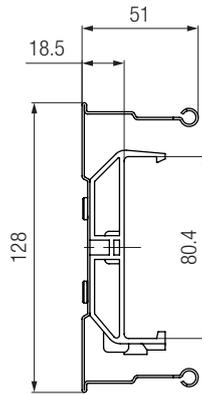
# ProShell Support Profile

## Hanger Clamps

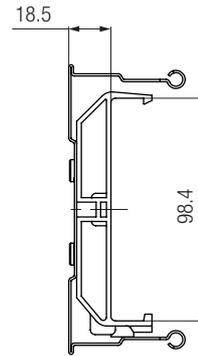
Hanger clamps connect the support profile with the conductor rail system and can be installed without tools (installation with screws optional).

Can be used for ProShell System 128 as well as for ProShell System 206.

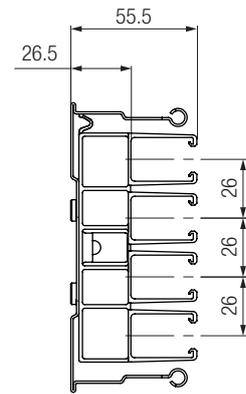
ProShell 128



MultiLine 0831,  
4 poles



MultiLine 0831,  
5 poles



SinglePowerLine  
0812, 4 poles

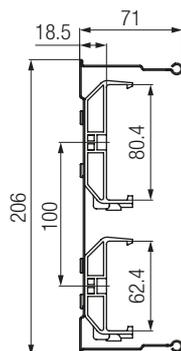
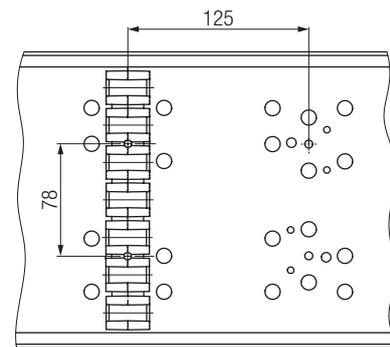
| Part No.       | Description                           | Poles | Hanger clamp rated spacing [m] | Weight [kg] |
|----------------|---------------------------------------|-------|--------------------------------|-------------|
| 08-S280-0770   | Hanger clamp for MultiLine 0831       | 3     | 1                              | 0.3         |
| 08-S280-0651 * | Hanger clamp for MultiLine 0831       | 4     |                                | 0.3         |
| 08-S280-0652 * | Hanger clamp for MultiLine 0831       | 5     |                                | 0.4         |
| 08-S280-0759   | Hanger clamp for SinglePowerLine 0812 | 3     |                                | 0.03        |
| 08-S280-0656 * | Hanger clamp for SinglePowerLine 0812 | 4     |                                | 0.8         |

\* Standard range

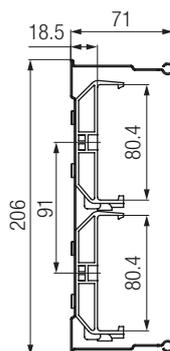
ProShell 206



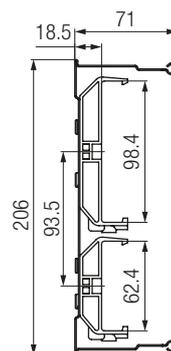
SinglePowerLine  
0812, 7 poles



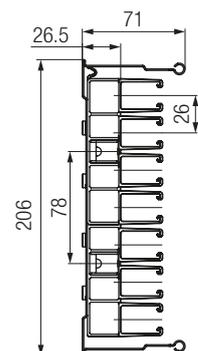
MultiLine 0831,  
3+4 poles



MultiLine 0831,  
4+4 poles



MultiLine 0831,  
5+3 poles

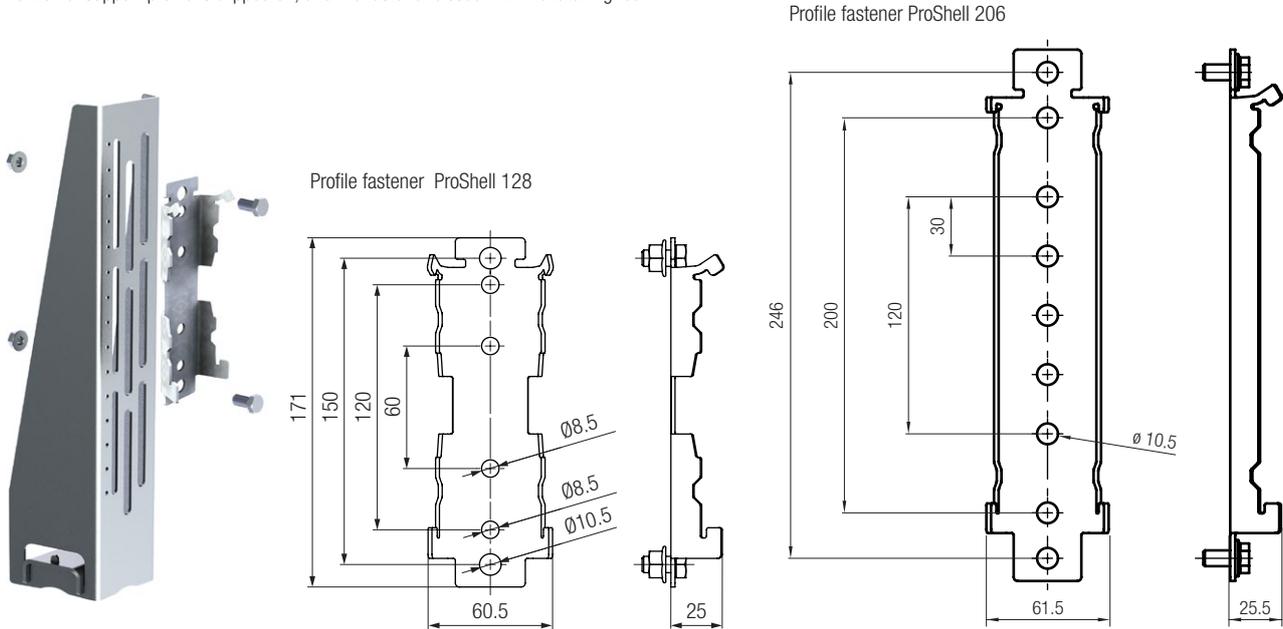


SinglePowerLine  
0812, 7 poles

# ProShell Support Profile

## Profile Fasteners

Profile fasteners are used to mount the support profiles on shelf uprights or slotted consoles. After the fastener is screwed to the upright/vertical support bracket, the horizontal support profile is clipped on, and the fastener closed with the latching tool.



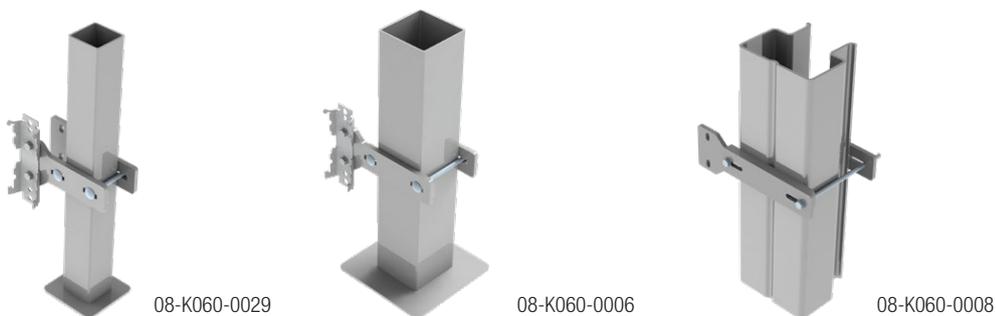
| Part No.         | Description                   | Weight [kg] |
|------------------|-------------------------------|-------------|
| 080043-4314-11C5 | Profile Fastener ProShell 128 | 0.2         |
| 080043-4124-11C5 | Profile Fastener ProShell 206 | 0.4         |

## Customized Fasteners for Shelf Uprights

Profile fasteners interfacing with the customer's structure can be customized, to fit the shelves' hole pattern or as a clip-on solution.

Customized fasteners are available with a minimum order of 200 units. With your request, please include a drawing of existing structures, installation space, and the desired order quantity.

| Part No.     | Description                           | Weight [kg] |
|--------------|---------------------------------------|-------------|
| 08-K060-0006 | Customized Fastener ProShell          | 1.8         |
| 08-K060-0008 | Customized Fastener ProShell          | 2.2         |
| 08-K060-0029 | Customized Fastener ProShell 40-80 mm | 1.5         |



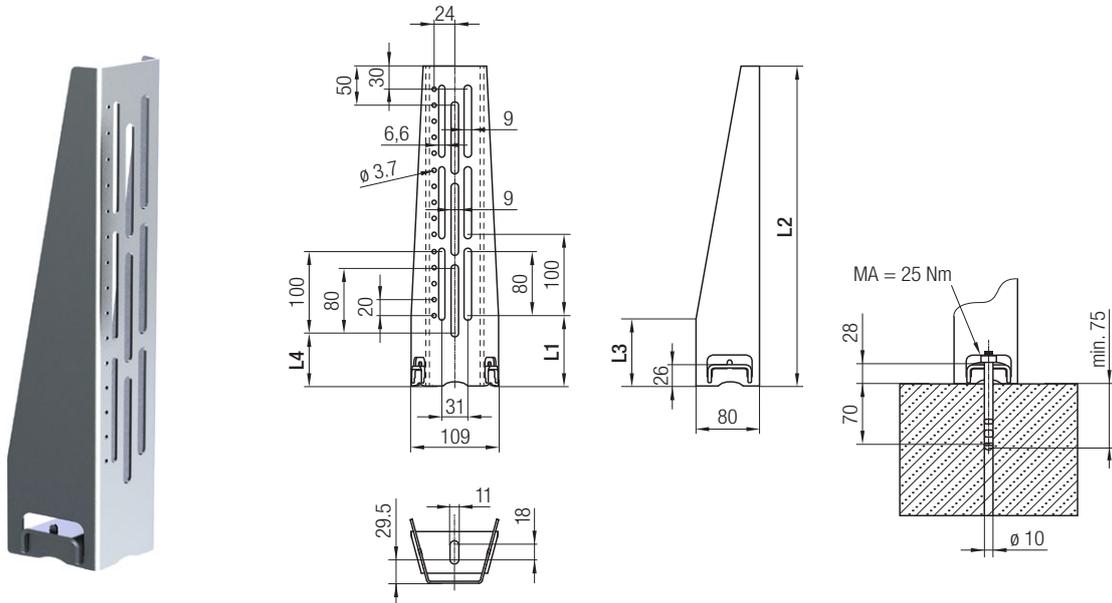
## Spacers (for use with Customized Fasteners)

| Part No.     | Description | Weight [kg] |
|--------------|-------------|-------------|
| 08-B020-6940 | Spacer 3 mm | 0.2         |
| 08-B020-6942 | Spacer 2 mm | 0.2         |
| 08-B020-6941 | Spacer 1 mm | 0.05        |

# ProShell Support Profile

## Slotted Consoles

Consoles with universal hole pattern and single-hole installation. Provided with heavy-duty dowel HSA M10x113 50/40/10 and washer. Suitable for uncracked concrete floors only. For common concrete grades: min. C20/25 up to max. C50/60.

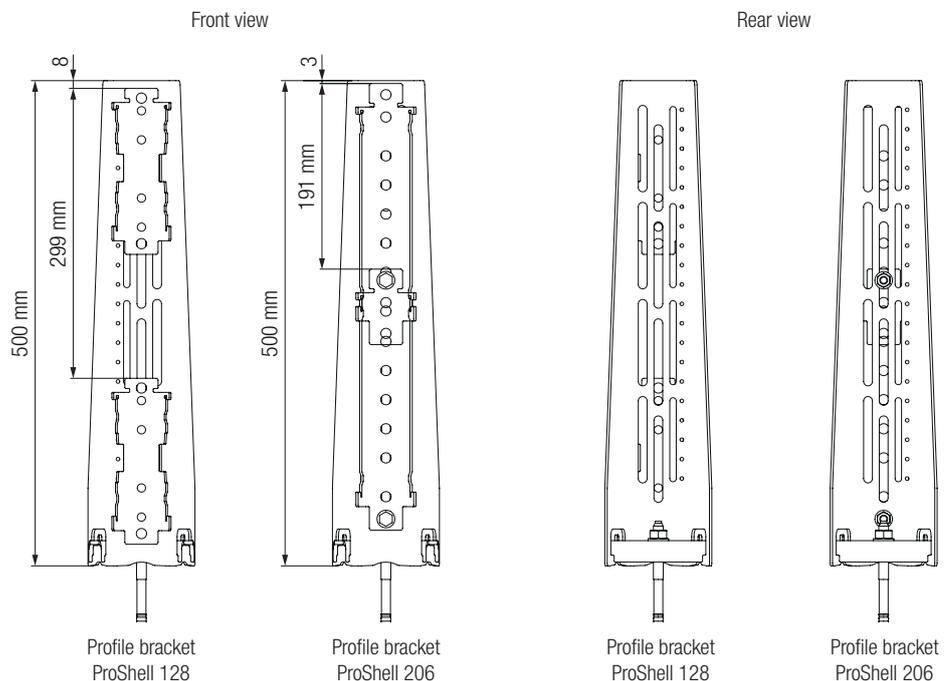


| Part No.            | Description     | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | Packaging size [Pcs.] | Weight [kg] |
|---------------------|-----------------|---------|---------|---------|---------|-----------------------|-------------|
| 080043-11x11x0300   | Upright H = 300 | 90      | 300     | 80      | 70      | 5                     | 5.5         |
| 080043-11x11x0400 * | Upright H = 400 | 90      | 400     | 80      | 70      |                       | 7.5         |
| 080043-11x11x0500 * | Upright H = 500 | 90      | 500     | 80      | 70      |                       | 9.5         |
| 080043-11x11x0600   | Upright H = 600 | 190     | 600     | 180     | 170     |                       | 11          |
| 080043-11x11x0700   | Upright H = 700 | 290     | 700     | 280     | 270     |                       | 12          |

\* Standard range

### Versatile fastening of the profile brackets:

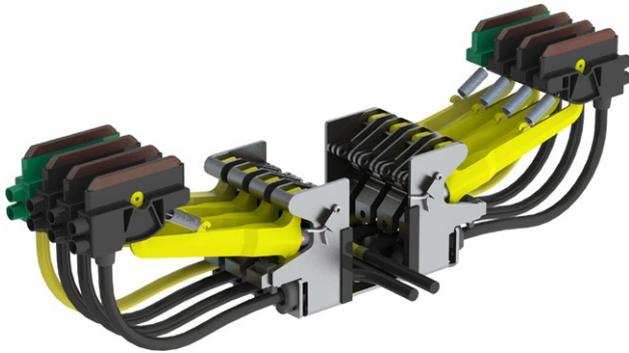
vertical fastening is variable thanks to the uprights' slotted holes





# ProShell Support Profile

## Current Collector ProShell 0812



### Technical Data

|                        |  |
|------------------------|--|
| Type:                  | Dual current collector for reversible operation, distance between poles: 26 mm   |
| Max. current capacity: | 160 A (for usage with copper rails – current capacities for other conductor rail materials available in their respective catalogs) |
| Max. travel speed:     | 400 m/min  |
| Spring force:          | 10 N   |
| Lateral deviation:     | ± 20 mm  |

|  |   |
|--|---|
| Working stroke in insertion direction: | ± 30 mm   |
| Connecting cable:                      | 16 mm <sup>2</sup> , high-flexibility, 4 m long   |
| Standard temperature version:          | -15° to +55°C, PVC connection line 16 mm <sup>2</sup> , high-flexibility  |
| Low-temperature version:               | -30° to +55°C, silicone connecting cable 16 mm <sup>2</sup> , high-flexibility, 4 m long, with enhanced insulation only |

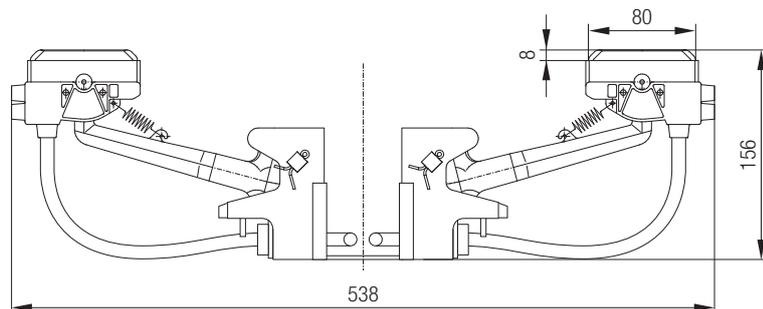
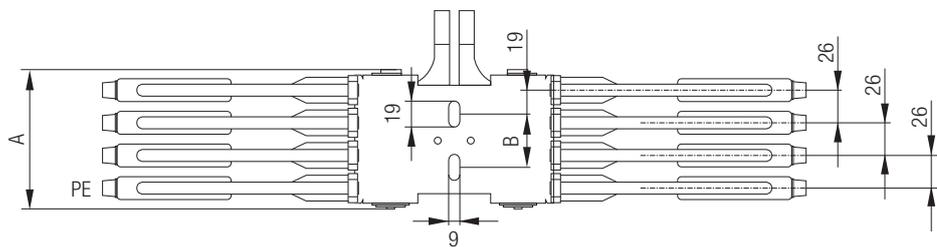
Available configurations for current collector 0812:

|                  |                  |
|------------------|------------------|
| Number of poles: | 4, 5, or 7 poles |
| Cable length:    | 0.5 m – 10 m     |

**Current Collector ProShell 0812 can be customized for both sides in number of poles, cable length, and PE position.**

| Part No.     | Description  | Weight [kg]  |
|--------------|--|--------------|
| 08120A-X#    | Current Collector 0812 PROSHELL CONFIG, Standard             | Config. mat. |
| 08-S265-2237 | Current Collector 0812 2 x 4 pole 80A PH REV GA SP, low-temp | 10.5         |

| Poles | A [mm] | B [mm] |
|-------|--------|--------|
| 4     | 116    | 40     |
| 5     | 142    | 50     |
| 7     | 194    | 90     |



# ProShell Support Profile

## Current Collector ProShell 0831



### Technical Data

|                        |  |  |   |
|------------------------|--|--|---|
| Type:                  | Dual current collector for reversible operation, distance between poles: 18 mm   | Working stroke in insertion direction: | $\pm 30$ mm   |
| Max. current capacity: | 160 A (for usage with copper rails – current capacities for other conductor rail materials available in their respective catalogs) | Connecting cable:                      | 16 mm <sup>2</sup> , high-flexibility, 4 m long   |
| Max. travel speed:     | 400 m/min  | Standard temperature version:          | -15° to +55°C, PVC connection line 16 mm <sup>2</sup> , high-flexibility  |
| Spring force:          | 10 N   | Low-temperature version:               | -30° to +55°C, silicone connecting cable 16 mm <sup>2</sup> , high-flexibility, 4 m long, with enhanced insulation only |
| Lateral deviation:     | $\pm 20$ mm  |  |   |

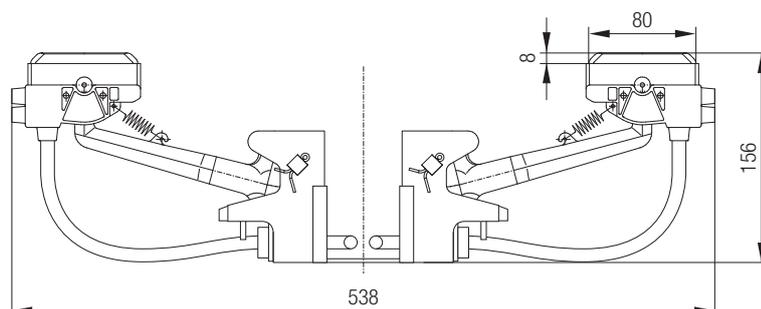
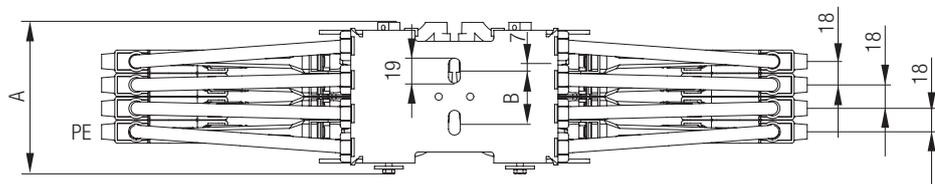
Available configurations for current collector 0831:

|                  |                  |
|------------------|------------------|
| Number of poles: | 3, 4, or 5 poles |
| Cable length:    | 0.5 m – 10 m     |

**Current Collector ProShell 0831 can be customized for both sides in number of poles, cable length, and PE position.**

| Part No.     | Description   | Weight [kg]  |
|--------------|---|--------------|
| 08310A-X#    | Current Collector 0831 PROSHELL CONFIG, Standard    | Config. mat. |
| 08-S265-2259 | Current Collector 0831 4P2PE 80A16 REV SP, low-temp | 10.5         |

| Poles | A [mm] | B [mm] |
|-------|--------|--------|
| 3     | 76     | 30     |
| 4     | 116    | 40     |
| 5     | 134    | 40     |



# ProShell Support Profile

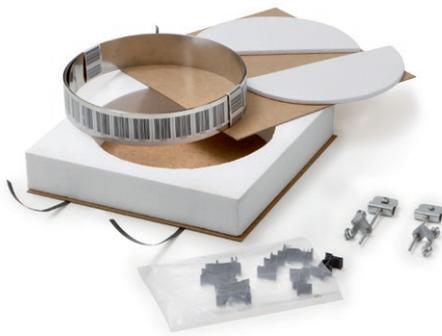
## Positioning System

The positioning module permits fast and flexible integration of the LEUZE barcode tape for positioning with barcode readers BPS 34 and 37. The barcode tape is affixed to a stainless steel strip at our factory according to customer specifications. It is securely fastened to the ProShell system with clip-on holders and two clamping elements. The barcode tape can be fastened above or below the support profiles.

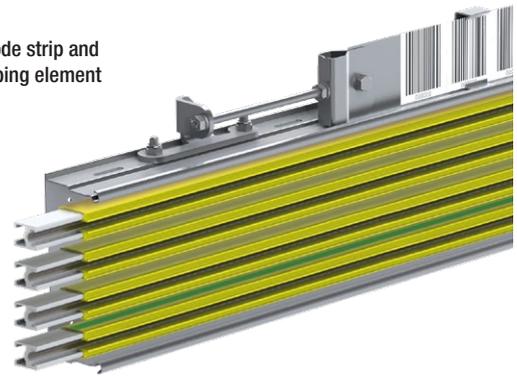
The module is configured according to the customer's order and contains all parts needed for attachment to the support profile. Bonding of the barcode tape occurs automatically under ideal conditions to avoid elongation of the tape and subsequent measuring errors. Since the support profile and barcode strip are separate units, assembly errors are virtually impossible. Repairs of the barcode strip, particularly in deep freeze plants, can be done quickly and easily.

For long transports or long storage we recommend ordering the barcode tape unattached.

### Positioning Module



### Barcode strip and clamping element



| Part No.  | Length [m] | Weight [kg/m] |
|-----------|------------|---------------|
| 080243-1# | 10 – 200   | 0.08          |

## Positioning System

### Contents of packaging unit

- 1 x stainless steel strip 50 x 0.2 mm with affixed barcode tape up to 200 m length
- 2 x clamping elements for attachment to support profile
- Clip-on holders for barcode strip guidance (one per meter)
- Delivery includes marking of the stated delivery identification/installation site

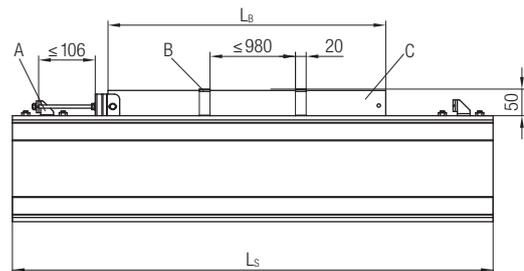
### Necessary order information

- Desired type of barcode tape:
  - BCB G40 H47
  - BCB G30 H47
  - steel strip only, without barcode tape
- Installation position (above or below the support profile)
- Length of barcode tape (200 m max.)
- All standard barcode strips start at figure 0.
  - Special strips starting at a figure other than 0 can be delivered at extra cost

### Notes

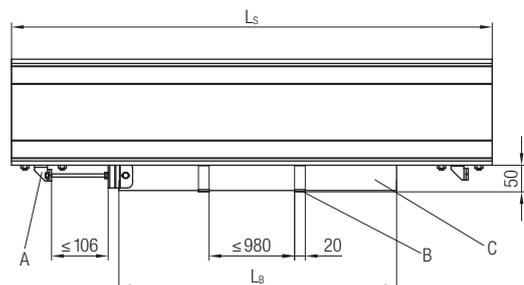
- Barcode reader not included
- Further information on the barcode tape system "BCB" and the barcode readers "BPS" is available on the Leuze company website: [www.leuze.com](http://www.leuze.com)

### Fastening above the support profile



$L_B$  = Length of barcode tape     $L_S$  = System length  
 A = Clamping element    B = Clip-on holder    C = Barcode tape

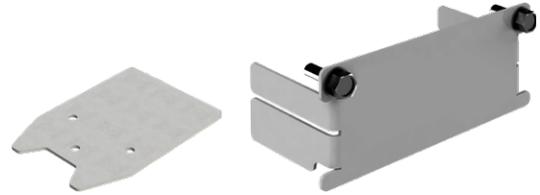
### Fastening below the support profile



# ProShell Accessories

## Basic Equipment ProShell

Anchor clamps and end caps for ProShell when no basic module is used, or as spare parts.



| Part No.     | Description  | Weight [kg] |
|--------------|--|-------------|
| 08-Z009-0022 | Accessories ProShell 128 (basic module without framework = anchor clamps and end caps) | 0.13        |
| 08-Z009-0031 | Accessories ProShell 206 (basic module without framework = anchor clamps and end caps) | 0.43        |

## Strain Relief for Basic Modules ProShell MultiLine 0831

Easily installed strain relief, e.g. for cables from MultiLine 0831 power feeds.

Can be fitted to the back of a basic module with the screws provided.

For up to 5 cables with max. 35 mm<sup>2</sup>.



| Part No.     | Description                    | Weight [kg] |
|--------------|--------------------------------|-------------|
| 08-Z008-0001 | Strain Relief ProShell 5 poles | 0.15        |

## Track Grounding SinglePowerLine 0812

For SinglePowerLine 0812.

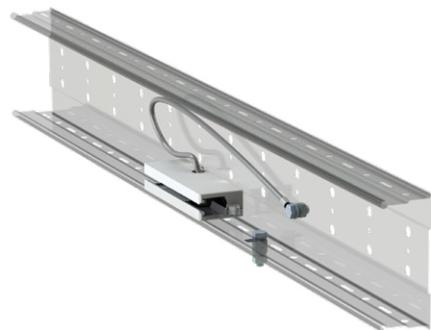
Grounding connector for regular intermediate grounding of long tracks.

This component replaces a standard conductor rail connector for

0812 Aluminum/Copper **ECO III** rails.

Grounding is done with

- 16 mm<sup>2</sup> stranded cable between connector and ProShell
- externally, an M8 screw with grounding marking

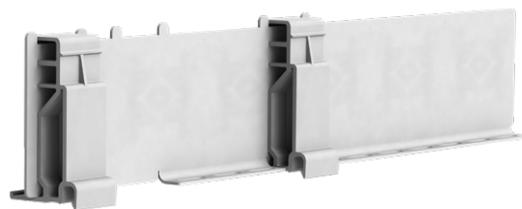


| Part No.     | Description  | Weight [kg] |
|--------------|--|-------------|
| 08-S212-0004 | Protective earth connection cable 1x16 for SinglePowerLine 0812 200 / 320 A AL and Copper <b>ECO III</b> | 0.23        |

# ProShell Spare Parts

## Switching Flag ProShell

Metal switching flag, e.g. to affix,  
incl. fitting material for fastening on ProShell.



| Part No.     | Description                 | Weight [kg] |
|--------------|-----------------------------|-------------|
| 08-H016-0324 | Switching Flag for ProShell | 0.11        |

## Profile Connector Repair Kit for ProShell

Screwable connector, does not need to be tucked in.  
Therefore it can be installed in the middle of a system,  
e.g. when repairing in the middle of a lane.



| Part No.     | Description                       | Weight [kg] |
|--------------|-----------------------------------|-------------|
| 08-V001-0555 | Connector Repair Kit ProShell 128 | 0.8         |
| 08-V001-0556 | Connector Repair Kit ProShell 206 | 0.8         |

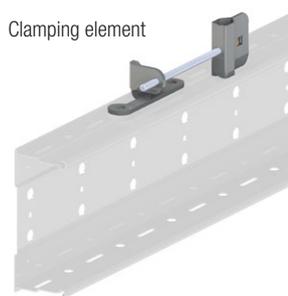
## Barcode Strip Spare Parts

Small parts for replacement or retrofitting of existing installations

Barcode strip fastener

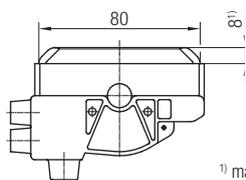


Clamping element



| Part No.     | Description                               | Weight [kg] |
|--------------|---|-------------|
| 08-H016-0263 | Barcode strip fastener ProShell 100 pcs.  | 0.006       |
| 08-S008-0329 | Clamping element for mounting on ProShell | 0.46        |

## Current Collector Head 80 A (081001-...)



<sup>1)</sup> max. wear height



| Collector Head with phase (PH)<br>Part No. | Collector Head with grounding<br>(PE) Part No. | Colors               | I [A] | for Current Collector and<br>Current Collector Units | Weight<br>[kg] |
|--|--|----------------------|-------|--|----------------|
| 081001-12                                  | 081001-22                                      | PH: black; PE: green | 80    | 083106-... / 083107-...                              | 0.09           |

# ProShell Support Profile

## Tools

In addition to standard tools, this tool set is necessary for locking the profile fasteners and connecting the support profiles.



Connecting support profiles



Locking profile fasteners



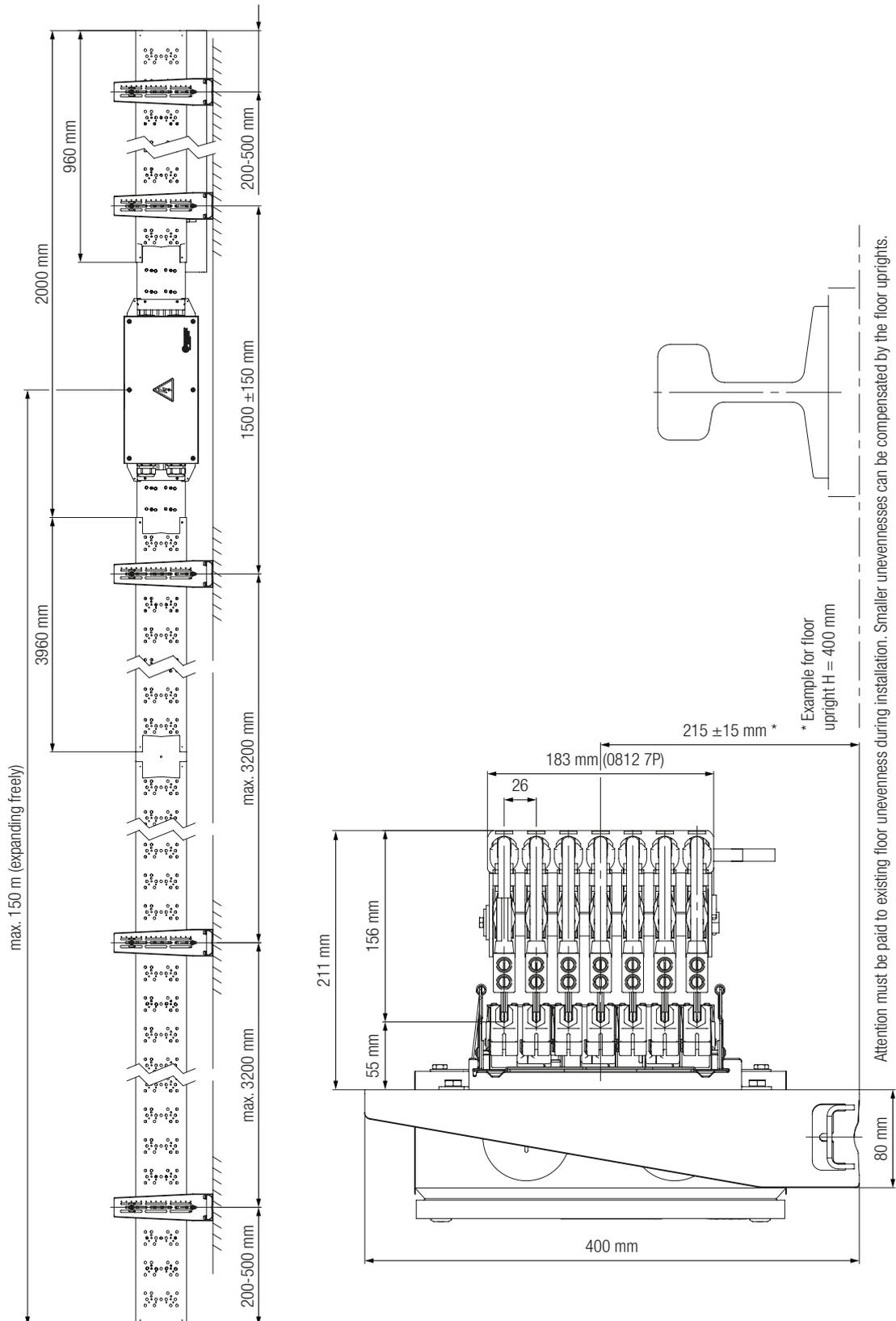
Support bracket hinged to support profile, to position conductor rails during installation

| Part No.     | Description   | Contents  | Weight [kg] |
|--------------|---|---|-------------|
| 08-W100-0592 | Tool set ProShell 128                                   | 1 x locking tool for profile fasteners 128<br>1 x locking tool for profiles 128<br>5 x support brackets to position conductor rails 128 | 2.1         |
| 08-W100-0604 | Tool set ProShell 206                                   | 1 x locking tool for profile fasteners 206<br>1 x locking tool for profiles 128<br>5 x support brackets to position conductor rails 206 | 2.3         |
| 08-W100-0607 | Dismantling tool for SinglePowerLine 0812 hanger clamps | 1 x Dismantling tool  | 0.14        |

# ProShell Support Profile

## System Installation Plan – ProShell 206 with Conductor Rail System SinglePowerLine 0812

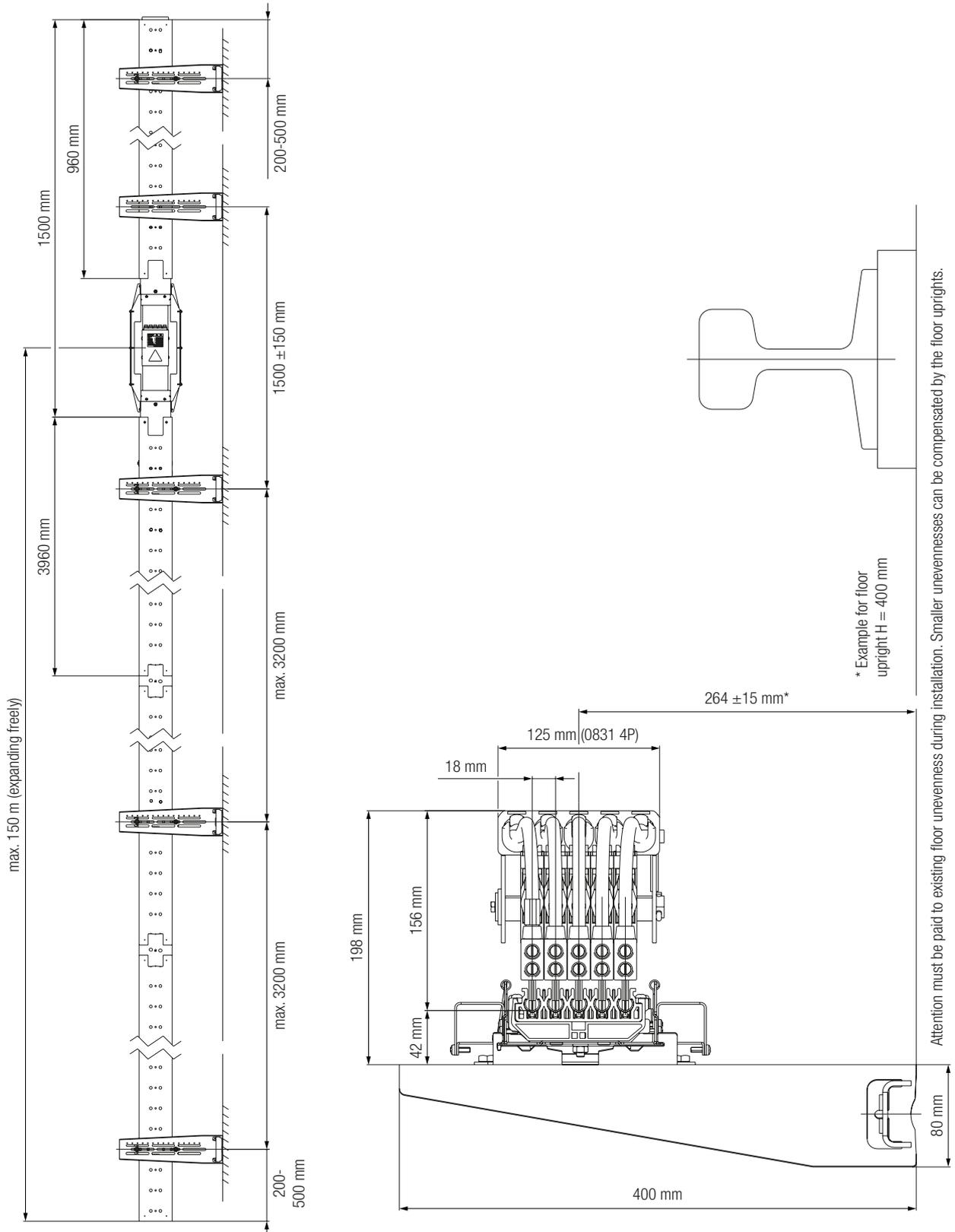
As a modular system, ProShell permits a user-defined, infinitely adjustable connection to shelf uprights or consoles, or free choice of the upright positions, respectively. This means fasteners can be positioned anywhere along the support profile, except at power feed locations. Individual installation plans and as-builts are not necessary.



# ProShell Support Profile

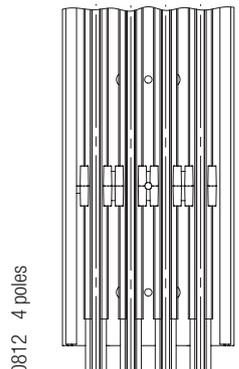
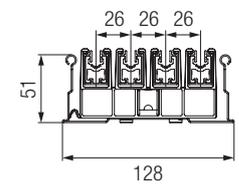
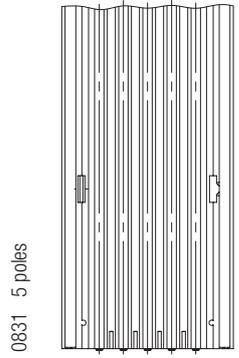
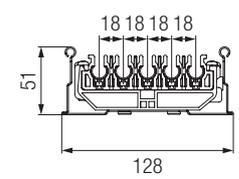
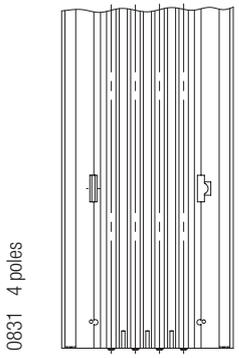
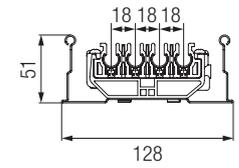
## System Installation Plan – ProShell 128 with Conductor Rail System MultiLine 0831

As a modular system, ProShell permits a user-defined, infinitely adjustable connection to shelf uprights or consoles, or free choice of the upright positions, respectively. This means fasteners can be positioned anywhere along the support profile, except at power feed locations. Individual installation plans and as-builts are not necessary.

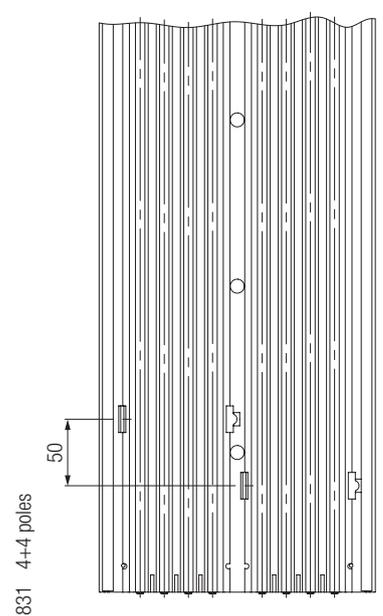
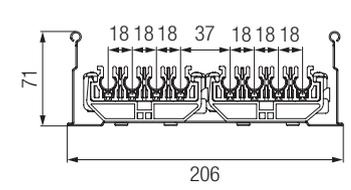
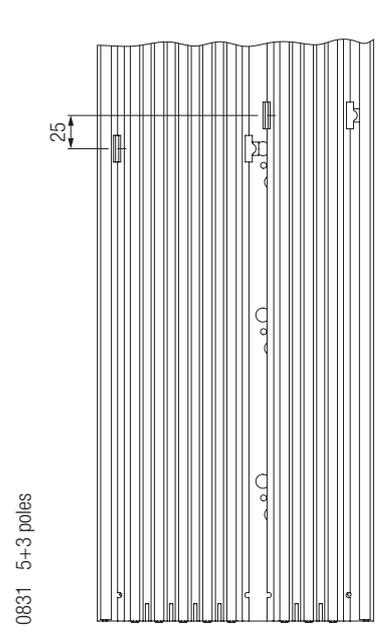
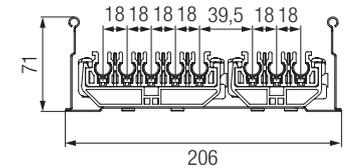
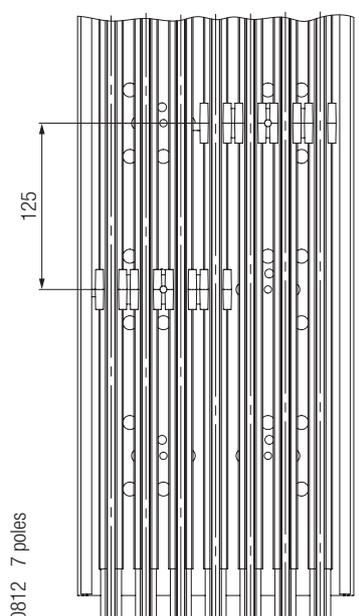
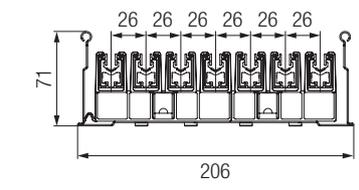
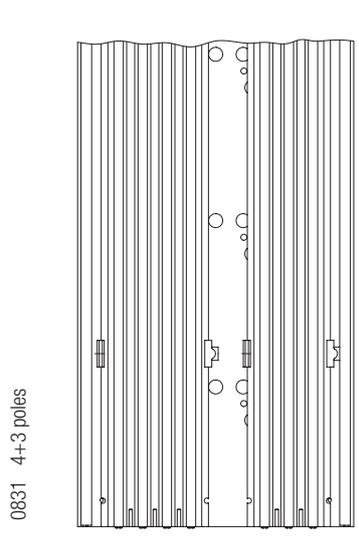
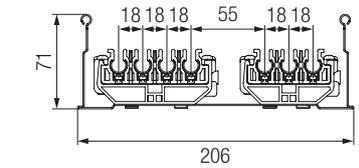


# ProShell Support Profile

## ProShell 128 variants



## ProShell 206 variants



# ProShell Support Profile – FAQ

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## What is the correct interval between slotted consoles?

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One of the main advantages of the ProShell support system is that it allows the conductor rails to be supported at greater intervals between the slotted consoles. When positioning the slotted consoles, only two factors have to be taken into account:

- a) Location of the power feed
- b) Maintaining a maximum support distance of 3.2 m

Observing these two factors, slotted consoles can be connected to the shell profile anywhere along the track, including the locations of profile connectors.

---

## Are specific installation drawings included in the scope of delivery?

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The ProShell system is defined by the length of the host system and position of the power feed, according to customers' requirements. Positioning of the slotted consoles and or connections to existing shelf uprights can be done anywhere along the track, except at the location of the power feed. Thus, installation plans are unnecessary and are not included in the scope of delivery.

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## Are installation plans available as an optional extra?

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Installation plans, if desired, are available for a fee based upon our hourly rates for engineering services.

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## What is the lowest feasible voltage/amperage for data transmission?

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Conductor rail systems are unshielded, contact-based systems and therefore of limited use in lower power ranges. Signal voltage should be high enough to accommodate the voltage drop and to ensure an appropriate disturbance-free voltage range. Currents should be higher than 1A, optimally higher than 3A, to ensure necessary "cleansing" of contact surfaces. Please consult us in regards of data transmission, and use appropriate transparent power amplifiers, such as the Powertrans system from Conductix-Wampfler.

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## Kann ProShell auch mit Eingriff nach unten oder senkrecht, z.B. an einem Mast, montiert werden?

---

ProShell ist in der Standardausführung nicht für den Eingriff von unten oder die senkrechte Montage vorgesehen. Bei diesen Einbaulagen ist die Fixierung der Schiene und evtl. das Dehnkonzept nicht ausreichend.

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## Can ProShell be used for curved tracks as well?

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The ProShell system is designed for linear tracks, such as warehouse aisles or straight transfer car routes. It is not intended to be used for curved tracks.

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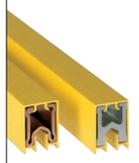
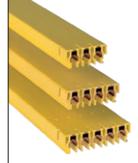
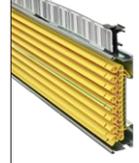
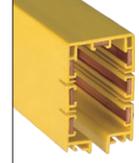
## Can ProShell be delivered with a higher number of poles?

---

The ProShell system is designed for use with up to 8 poles (Conductor Rail MultiLine 0831) or up to 7 poles (Conductor Rail SinglePowerLine 0812). For a higher number of poles, ProShell systems can be installed in parallel – or other solutions from Conductix-Wampfler may be used.

# Conductor Rail Systems – Program Overview

## Conductor Rails from Conductix-Wampfler

| System Type                     | Single pole insulated conductor rails   |   |   |   | Compact conductor rails  |   | Enclosed Rail   |
|---------------------------------|---|---|---|---|--|---|---|
| Conductor Rail System           | Program 0811  | Program 0815  | Programm 0812<br>SinglePowerLine  | Program 0813  | Programm Multi-<br>Line 0831   | Program 0832  | Program 0842  |
|                                 |  |  |  |  |  |  |  |
| Rated Current <sup>1)</sup> [A] | 10-100  | 100   | 25 - 400  | 200 - 1250  | 10-125 <sup>3)</sup>   | 25 - 200 <sup>4)</sup>  | 35 - 140 <sup>5)</sup>  |
| Rated Voltage [V]               | 500   | 500   | 660   | 660   | 500  | 690   | 690 V<br>(4 and 5 poles)/<br>400 V (7 poles)  |
| Suspension Spacing [m]          | 0.4-1.0   | 0.5   | 1.5   | 2.5   | 1  | 3.2   | 2   |
| Rail Length <sup>2)</sup> [mm]  | 4000  | 4000  | 4000  | 5000  | 4000   | 4000  | 4000  |
| Outer Dimensions [mm]           | 14.7 x 15.5   | 9.6 x 15.2  | 18 x 26   | 32 x 42   | 3 poles: 26 x 62<br>4 poles: 26 x 80<br>5 poles: 26 x 98                           | 4 poles:<br>200 x 50  | 5 poles: 56 x 90<br>7 poles: 56 x 90  |

1) at 100% duty cycle and 35°C

2) Standard

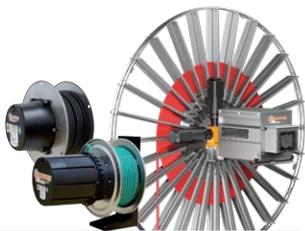
3) 140 A at 80% duty cycle

4) 200 A at 80% duty cycle

5) 160 A at 80% duty cycle

# Your Applications – our Solutions

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 Conductix-Wampfler for hands-on engineering support together with the optimum solution to safely meet your needs.



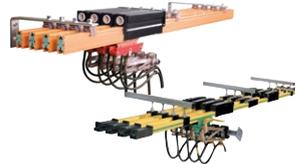
## Cable and Hose Reels

Motor driven and spring driven reels by Conductix-Wampfler provide energy, data and media over a variety of distances, in all directions, fast and safe.



## Festoon Systems

Conductix-Wampfler cable trolleys can be used in virtually every industrial application. They are reliable, robust and available in an enormous variety of dimensions and designs.



## Conductor Rails

Available as enclosed or multiple unipole systems, Conductix-Wampfler conductor rails reliably move people and material.



## 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. Flexible installation when used with Automated Guided Vehicles.



## Non-insulated Conductor Rails

Robust, non-insulated aluminum conductor rails with stainless steel cap provide the ideal basis for power supply of people movers and transit networks.



## Radio Remote Controls

Safety remote control solutions customized to meet our customer needs with modern ergonomic design.



## Reels, Retractors and Balancers

Available for hoses and cables, as classical reels or high-precision positioning aids for tools, we offer a complete range of reels and spring balancers.



## Jib Booms

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



## 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!



## Mobile Control Systems

Mobile control solutions for your plant – whether straightforward or intricate. Control and communication systems from LJU have been tried and tested in the automotive industry for decades.



## ProfidAT

This data transfer system is a compact slotted waveguide and furthermore can be used as Grounding rail (PE) as well as positioning rail at the same time.

# www.conductix.com

## **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.contact](http://www.conductix.contact)**

