

**Data sheet | Item number: 2086-1108/700-000/997-607**

SMD PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole;  
Push-in CAGE CLAMP®; 1,50 mm<sup>2</sup>; black

[www.wago.com/2086-1108/700-000/997-607](http://www.wago.com/2086-1108/700-000/997-607)

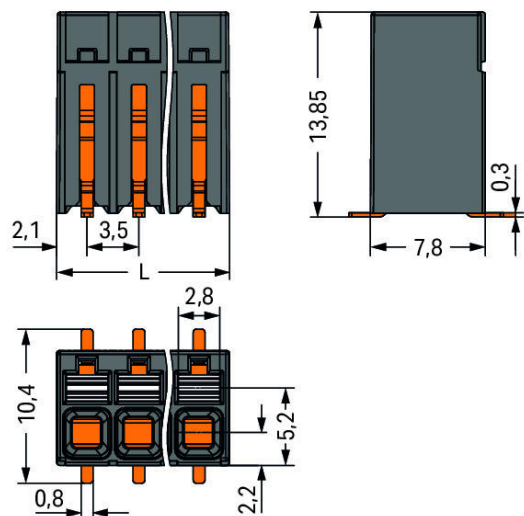


Color: 

Subject to changes. Please also observe the further product documentation!

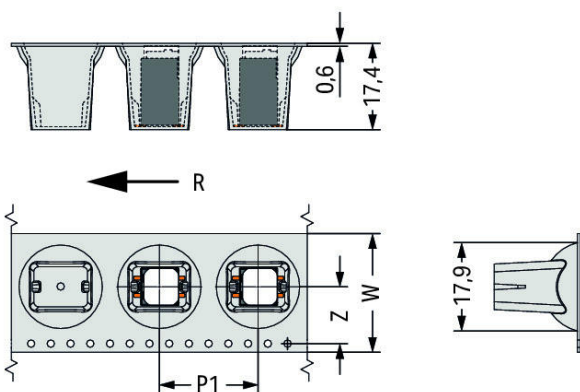
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Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 4.2 \text{ mm}$



Dimensions in mm

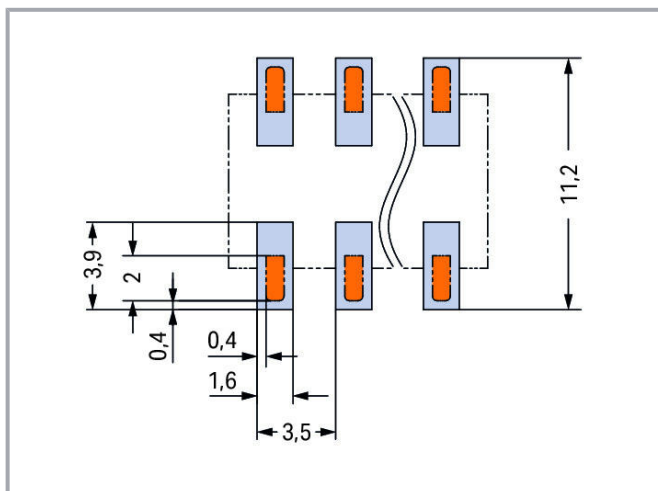
W = Tape width

R = Feed direction

Pole No. 2: Z = 11.5 mm

Pole No. 3 ... 5: Z = 12.4 mm

Pole No. 6 ... 12: Z = 26.2 mm



## Item description

- Ideal for compact device connection, panel feedthrough and tight spaces

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- Push-in CAGE CLAMP® allows push-in termination of solid and fine-stranded conductors with ferrules
- SMD and THR variants available
- Delivery in tape-and-reel packaging for full integration into SMT soldering process
- Push-button moves in direction of conductor connection
- Conductor connection and mating direction both parallel and perpendicular to the PCB

## Data

### Electrical data

#### Ratings per IEC/EN

| Ratings per                 | IEC/EN 60664-1                                            |
|-----------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)     | 160 V                                                     |
| Rated surge voltage (III/3) | 2.5 kV                                                    |
| Rated voltage (III/2)       | 160 V                                                     |
| Rated surge voltage (III/2) | 2.5 kV                                                    |
| Nominal voltage (II/2)      | 320 V                                                     |
| Rated surge voltage (II/2)  | 2.5 kV                                                    |
| Rated current               | 17.5 A                                                    |
| Legend (ratings)            | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

#### Ratings per UL

| Approvals per                  | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 10 A    |
| Rated voltage UL (Use Group C) | 300 V   |
| Rated current UL (Use Group C) | 10 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

#### Ratings per CSA

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

Subject to changes. Please also observe the further product documentation!



## Connection data

|                            |   |
|----------------------------|---|
| Total number of potentials | 8 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                          |
| Actuation type                                    | Push-button                                  |
| Solid conductor                                   | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor                           | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm <sup>2</sup>                |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Conductor diameter                                | 24 ... 16 AWG                                |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inch              |
| Conductor connection direction to PCB             | 90°                                          |
| Pole No.                                          | 8                                            |

## Physical data

|                                          |                       |
|------------------------------------------|-----------------------|
| Pin spacing                              | 3.5 mm / 0.138 inch   |
| Width                                    | 28.7 mm / 1.13 inch   |
| Height                                   | 13.85 mm / 0.545 inch |
| Depth                                    | 7.8 mm / 0.307 inch   |
| Reel diameter of tape-and-reel packaging | 380 mm                |
| Tape width                               | 56 mm                 |

## PCB contact

|                                     |                                          |
|-------------------------------------|------------------------------------------|
| PCB Contact                         | SMD                                      |
| Solder pin arrangement              | Over the entire terminal strip (in-line) |
| Number of solder pins per potential | 2                                        |

## Material data

|                          |                                   |
|--------------------------|-----------------------------------|
| Color                    | black                             |
| Insulation material      | Polyphthalamide (PPA GF)          |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material         |                                   |

Subject to changes. Please also observe the further product documentation!

|                 |                                  |
|-----------------|----------------------------------|
|                 | Electrolytic copper ( $E_{Cu}$ ) |
| Contact plating | Tin-plated                       |
| Fire load       | 0.003 MJ                         |
| Weight          | 6.2 g                            |

## Environmental requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

## Commercial data

|                       |                  |
|-----------------------|------------------|
| PU (SPU)              | 1080 (270) Stück |
| Packaging type        | box              |
| Country of origin     | CH               |
| GTIN                  | 4055144108330    |
| Customs tariff number | 85369010000      |

## Optional accessories

### Testing and measuring

|                                                                                    |                                                                                    |                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Testing accessories                                                                |                                                                                    |                                                                |
|  | <b>Item no.: 735-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |
|  | <b>Item no.: 859-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | <a href="http://www.wago.com/859-500">www.wago.com/859-500</a> |

### Ferrule

|                                                                                   |                                                                                                                                                                                        |                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Ferrule                                                                           |                                                                                                                                                                                        |                                                                |
|  | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored                                                          | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|  | <b>Item no.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored                                                          | <a href="http://www.wago.com/216-104">www.wago.com/216-104</a> |
|  | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored                                                         | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |
|  | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                                                                            | <a href="http://www.wago.com/216-103">www.wago.com/216-103</a> |
|  | <b>Item no.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | <a href="http://www.wago.com/216-142">www.wago.com/216-142</a> |
|  | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | <a href="http://www.wago.com/216-132">www.wago.com/216-132</a> |

Subject to changes. Please also observe the further product documentation!



|                                                                                   |                                                                                                                                                                                                       |                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored                                                                         | <a href="http://www.wago.com/216-121">www.wago.com/216-121</a> |
|    | <b>Item no.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                   | <a href="http://www.wago.com/216-143">www.wago.com/216-143</a> |
|    | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored                                                                        | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|    | <b>Item no.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                 | <a href="http://www.wago.com/216-141">www.wago.com/216-141</a> |
|    | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|    | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                                    | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|    | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|    | <b>Item no.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <a href="http://www.wago.com/216-144">www.wago.com/216-144</a> |
|    | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                                    | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white            | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray            | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                                  | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|  | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                                   | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |
| <b>Tool</b>                                                                       |                                                                                                                                                                                                       |                                                                |
| Operating tool                                                                    |                                                                                                                                                                                                       |                                                                |
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft                                                                                                     | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |

## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>2.0 MB | Download |
|------------------------|-------------|---------------|----------|

Subject to changes. Please also observe the further product documentation!

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2086-1108/700-000/997-607

URL

Download

SMD PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole; Push-in  
CAGE CLAMP®; 1,50 mm<sup>2</sup>; black

## Installation Notes

### Conductor termination



Inserting solid conductor via push-in  
termination.

### Conductor removal



Removing fine-stranded conductors via  
push-buttons.

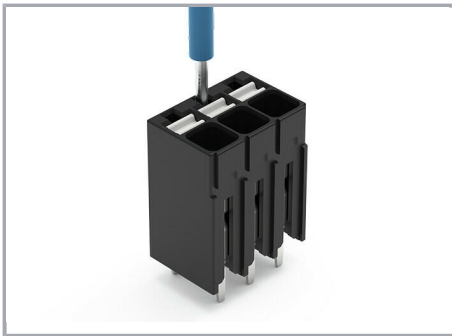
### Conductor termination

Subject to changes. Please also observe the further product documentation!



Inserting and removing fine-stranded conductors via push-buttons.

#### Testing



Testing via 1 mm Ø test pin.

Touch contact with current bar.

#### Marking



Pole marking via direct marking perpendicular to conductor entry.

Subject to changes. Please also observe the further product documentation!