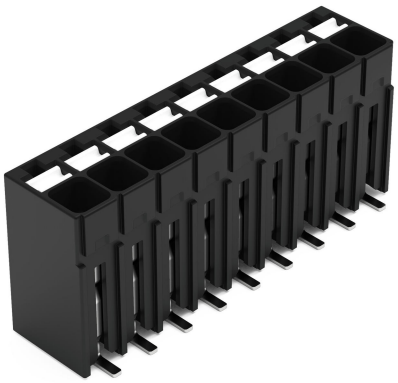
# Data sheet | Item number: 2086-1109/700-000/997-607

SMD PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 9-pole; Push-in CAGE CLAMP®; 1,50 mm²; black

www.wago.com/2086-1109/700-000/997-607

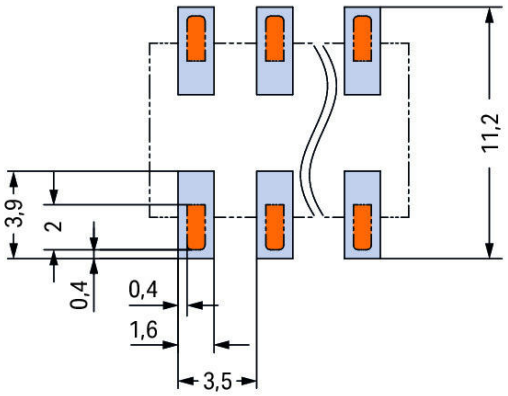


Color:

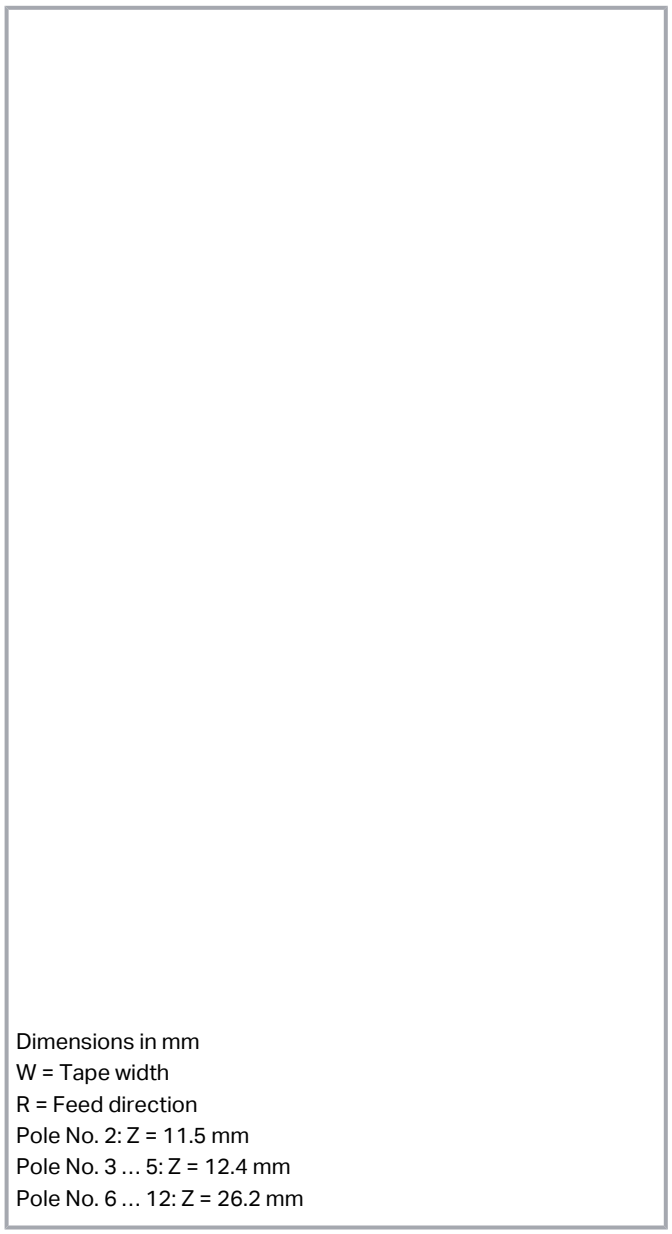
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Dimensions in mm
L = (pole no. – 1) x pin spacing + 4.2 mm



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
- 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

### IEC Approvals

| | |
|---|---|
| Ratings per | IEC/EN 60664-1 |
| Rated 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 |

### UL Approvals

| | |
|---|---|
| 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 |

### CSA Approvals

| | |
|---|---|
| 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 |

### Connection data

| | |
|---|---|
| Total number of potentials | 9 |
| 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 mm² / 24 … 16 AWG |
| Fine-stranded conductor | 0.14 … 1.5 mm² / 24 … 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 0.75 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 … 1.5 mm² |
| Strip length | 8 … 9 mm / 0.31 … 0.35 inch |
| Conductor connection direction to PCB | 90 ° |
| Number of poles | 9 |

## Physical data

| | |
|---|---|
| Pin spacing | 3.5 mm / 0.138 inch |
| Width | 32.2 mm / 1.268 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 | Electrolytic copper ($E_{Cu}$) |
| Contact plating | Tin-plated |
| Fire load | 0.003 MJ |
| Weight | 6.6 g |

## Environmental requirements

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

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

## Commercial data

| | |
|---|---|
| PU (SPU) | 1080 (270) Stück |
| Packaging type | box |
| Country of origin | CH |
| GTIN | 4055144108248 |
| Customs tariff number | 85369010000 |

## Optional accessories

### Ferrules

Ferrule

| | | |
|---|---|---|
| | Item no.: 216-101<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-101 |
| | Item no.: 216-104<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-104 |
| | Item no.: 216-102<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-102 |
| | Item no.: 216-103<br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated | www.wago.com/216-103 |
| | Item no.: 216-142<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-142 |
| | Item no.: 216-132<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-132 |
| | Item no.: 216-121<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-121 |
| | Item no.: 216-143<br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-143 |
| | Item no.: 216-131<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-131 |
| | Item no.: 216-141<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-141 |
| | Item no.: 216-152<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-152 |
| | Item no.: 216-202<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-202 |
| | Item no.: 216-151 | |

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| | | |
|---|---|---|
| | Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-151 |
| | **Item no.: 216-144**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | www.wago.com/216-144 |
| | **Item no.: 216-201**<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-201 |
| | **Item no.: 216-241**<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | www.wago.com/216-241 |
| | **Item no.: 216-242**<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-242 |
| | **Item no.: 216-301**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-301 |
| | **Item no.: 216-302**<br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-302 |

**Testing accessories**

Testing accessories

| | | |
|---|---|---|
| | **Item no.: 735-500**<br>Test pin; 1 mm Ø; with solder connection for test wire | www.wago.com/735-500 |
| | **Item no.: 859-500**<br>Test pin; 1 mm Ø; with solder connection for test wire | www.wago.com/859-500 |

**Tools**

Operating tool

| | | |
|---|---|---|
| | **Item no.: 210-719**<br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |

## Downloads

### Documentation

**Additional Information**

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

## Environmental Product Compliance

**Compliance Search**

| | | |
|---|---|---|
| Environmental Product Compliance 2086-1109/700-000/997-607<br>SMD PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 9-pole; Push-in CAGE CLAMP®; 1,50 mm²; black | URL | Download |

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## Installation Notes

### Conductor termination



Inserting solid conductor via push-in termination.

### Conductor removal



Removing fine-stranded conductors via push-buttons.

### Conductor termination



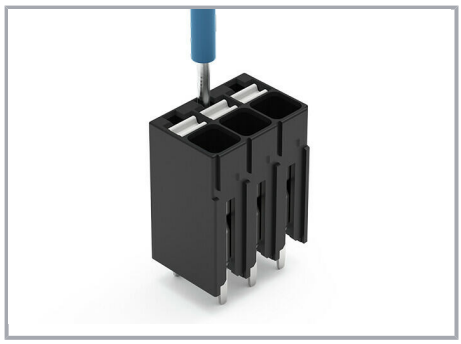
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Inserting and removing fine-stranded conductors via push-buttons.

### Testing



Testing via 1 mm Ø test pin.

Touch contact with current bar.

### Marking




Pole marking via direct marking perpendicular to conductor entry.



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