

## Data Sheet | Item Number: 218-107/000-604

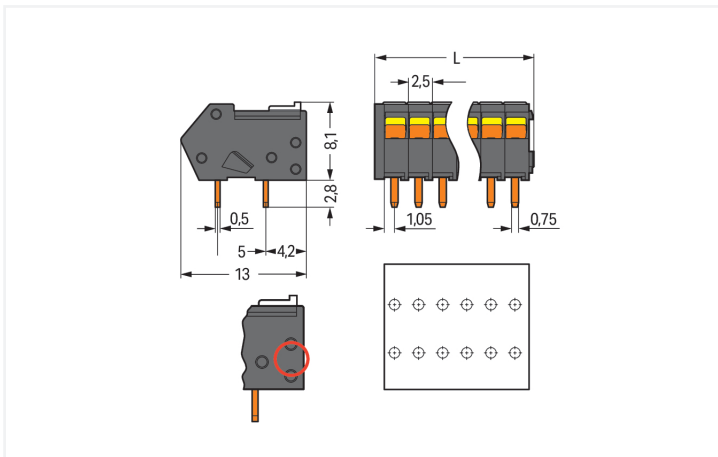
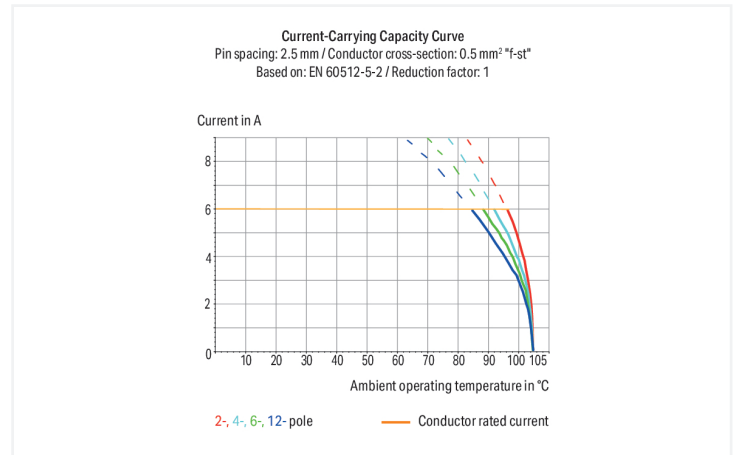
THR PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 7-pole; CAGE CLAMP®; black

<https://www.wago.com/218-107/000-604>



Color: ■ black

Similar to illustration



Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm

PCB terminal block, 218 Series, solder pin dimensions 0.5 x 0.75 mm

Our PCB terminal block (item number 218-107/000-604) is the ideal way to connect conductors quickly and securely. It is a universal connector that can be used practically anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors can only be connected to this PCB terminal block if their strip length is between 5 and 6 mm. This product features one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a proven and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. Dimensions: (19 x 10.9 x 13) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 0.5 mm<sup>2</sup>. The contact surface is coated with tin. This PCB terminal block is operated with a slider. THR is used to solder the PCB terminal block. The conductor is designed to be inserted into the board at a 40° angle..



| Notes     |                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note      | Application notes:<br>Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260°C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions. |
| Variants: | Other pole numbers<br>Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                     |

| Electrical data                 |                |        |        |
|---------------------------------|----------------|--------|--------|
| Ratings per                     | IEC/EN 60664-1 |        |        |
| Overvoltage category            | III            | III    | II     |
| Pollution degree                | 3              | 2      | 2      |
| Nominal voltage                 | 32 V           | 160 V  | 320 V  |
| Rated impulse withstand voltage | 2.5 kV         | 2.5 kV | 2.5 kV |
| Rated current                   | 6 A            | 6 A    | 6 A    |

| Connection Data                                   |                                                                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clamping units                                    | 7                                                                                                                                                                |
| Total number of potentials                        | 7                                                                                                                                                                |
| Number of connection types                        | 1                                                                                                                                                                |
| Number of levels                                  | 1                                                                                                                                                                |
| Connection 1                                      |                                                                                                                                                                  |
| Connection technology                             | CAGE CLAMP®                                                                                                                                                      |
| Actuation type                                    | Slider                                                                                                                                                           |
| Solid conductor                                   | 0.08 ... 0.5 mm² / 28 ... 20 AWG                                                                                                                                 |
| Fine-stranded conductor                           | 0.08 ... 0.5 mm² / 28 ... 20 AWG                                                                                                                                 |
| Fine-stranded conductor; with insulated ferrule   | 0.25 mm²                                                                                                                                                         |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 mm²                                                                                                                                                         |
| Note (conductor cross-section)                    | Terminating 0.75 mm²/18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size. |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inches                                                                                                                                 |
| Conductor connection direction to PCB             | 40 °                                                                                                                                                             |
| Pole number                                       | 7                                                                                                                                                                |

| Physical data                      |                          |
|------------------------------------|--------------------------|
| Pin spacing                        | 2.5 mm / 0.098 inches    |
| Width                              | 19 mm / 0.748 inches     |
| Height                             | 10.9 mm / 0.429 inches   |
| Height from the surface            | 8.1 mm / 0.319 inches    |
| Depth                              | 13 mm / 0.512 inches     |
| Solder pin length                  | 2.8 mm                   |
| Solder pin dimensions              | 0.5 x 0.75 mm            |
| Plated through-hole diameter (THR) | 1.1 <sup>(±0.1)</sup> mm |

### PCB contact

|                                     |                                          |
|-------------------------------------|------------------------------------------|
| PCB contact                         | THR                                      |
| Solder pin arrangement              | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 2                                        |

### Material data

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | black                                                                    |
| Material group                     | IIIa                                                                     |
| Insulation material (main housing) | Polyamide (PA46)                                                         |
| Flammability class per UL94        | V2                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Electrolytic copper (E <sub>cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.115 MJ                                                                 |
| Weight                             | 2.3 g                                                                    |
| MSL per J-STD 020D                 | 1                                                                        |

### Environmental requirements

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

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 240 (60) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | PL                             |
| GTIN                  | 4045454461324                  |
| Customs tariff number | 85369010000                    |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-44-04-01          |
| eCl@ss 9.0  | 27-44-04-01          |
| ETIM 9.0    | EC002643             |
| ETIM 10.0   | EC002643             |
| ECCN        | NO US CLASSIFICATION |

### Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|



Approvals / Certificates

General approvals



| Approval                        | Standard      | Certificate Name |
|---------------------------------|---------------|------------------|
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 1565656          |

Downloads

Environmental Product Compliance

| Compliance Search                                   |
|-----------------------------------------------------|
| Environmental Product Compliance<br>218-107/000-604 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |
| 03.04.2019             |
| pdf<br>2027.26 KB      |
| pdf<br>535.32 KB       |



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>218-107/000-604 |



| CAE data                             |
|--------------------------------------|
| EPLAN Data Portal<br>218-107/000-604 |
| ZUKEN Portal<br>218-107/000-604      |



| PCB Design                                                     |
|----------------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys<br>218-107/000-604        |
| Symbol and Footprint<br>via Ultra Librarian<br>218-107/000-604 |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-321**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-151**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated



**Item No.: 216-131**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

1.1.2 Marking

1.1.2.1 Marking strip



**Item No.: 210-331/250-202**  
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-331/250-207**  
Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-331/250-204**  
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-331/250-206**  
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.3 Test and measurement

1.1.3.1 Testing accessories



**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm<sup>2</sup>

1.1.4 Tool

1.1.4.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured