

## Data Sheet | Item Number: 218-507/000-604

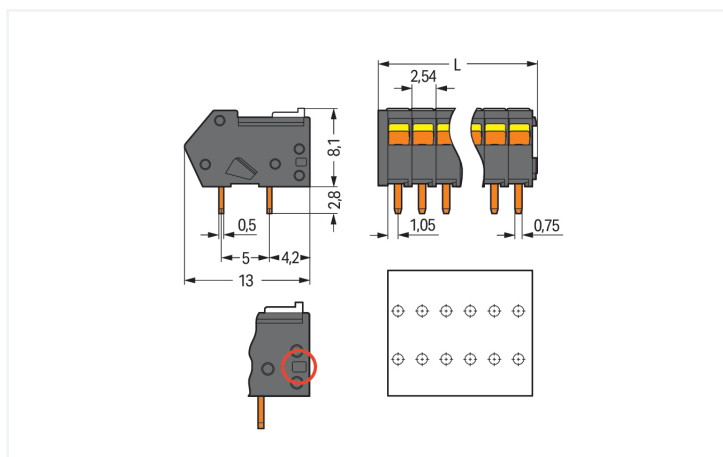
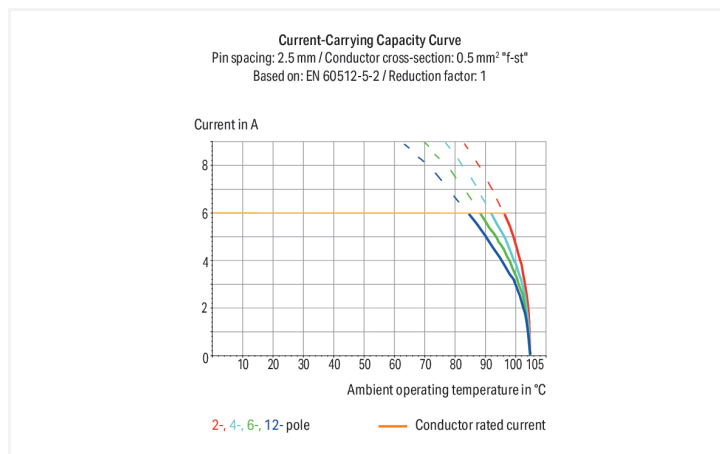
THR PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 7-pole; CAGE CLAMP®; black

<https://www.wago.com/218-507/000-604>



Color: ■ black

Similar to illustration



Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm groove at the back of the terminal strip indicates the 2.54 mm pin spacing (red circle).

PCB terminal block, 218 Series, slider

Connect conductors quickly and securely with this PCB terminal block (item number 218-507/000-604). It is ideal for custom installations with different mounting types. Ensure that the strip lengths are between 5 and 6 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our renowned universal connection known as CAGE CLAMP® leads the way when it comes to connection technology and electrical interconnections. Dimensions: (19.28 x 10.9 x 13) mm (width x height x depth). 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. A slider is used to operate this PCB terminal block. THR is used to assemble the PCB terminal block. Insert the conductor at an angle of 40°..



| 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                        | 2.54 mm / 0.1 inches     |
| Width                              | 19.28 mm / 0.759 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                  | 4045454341930                  |
| 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>218-507/000-604 |



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>218-507/000-604 |



| CAE data                             |
|--------------------------------------|
| EPLAN Data Portal<br>218-507/000-604 |
| ZUKEN Portal<br>218-507/000-604      |



| PCB Design                                                     |
|----------------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys<br>218-507/000-604        |
| Symbol and Footprint<br>via Ultra Librarian<br>218-507/000-604 |



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.: 210-331/254-202**  
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.: 210-331/254-207**  
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.: 210-331/254-204**  
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.: 210-331/254-206**  
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.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short