

Data Sheet | Item Number: 218-124

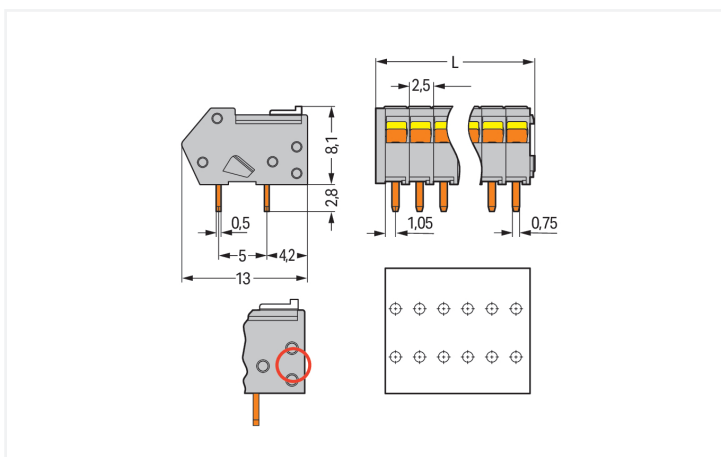
PCB terminal block; Locking slides; 0.5 mm²; Pin spacing 2.5 mm; 24-pole; CAGE CLAMP®; gray

<https://www.wago.com/218-124>



Color: ■ gray

Similar to illustration



Dimensions in mm

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

PCB terminal block, 218 Series, gray

Our PCB terminal block (item number 218-124) simplifies electrical installations. You can count on trusted safety with these PCB terminal blocks, perfect for a wide variety of applications when designing your devices. 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 renowned universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The dimensions are (61.5 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 mm² to 0.5 mm². Tin is used for coating the contact surfaces. A slider is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. Insert the conductor at an angle of 40°.

Notes

| | |
|-----------|--|
| Variants: | Other pole numbers Other colors Mixed-color PCB connector strips Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ . |
|-----------|--|

Electrical data

| Ratings per | IEC/EN 60664-1 | | | Approvals per | UL 1059 | | |
|---------------------------------|----------------|--------|--------|---------------|---------|---|---|
| Overvoltage category | III | III | II | Use group | B | C | D |
| Pollution degree | 3 | 2 | 2 | Rated voltage | 150 V | - | - |
| Nominal voltage | 80 V | 160 V | 320 V | Rated current | 4 A | - | - |
| Rated impulse withstand voltage | 2.5 kV | 2.5 kV | 2.5 kV | | | | |
| Rated current | 6 A | 6 A | 6 A | | | | |

| Approvals per | CSA | | |
|---------------|-------|---|---|
| Use group | B | C | D |
| Rated voltage | 150 V | - | - |
| Rated current | 4 A | - | - |

Connection Data

| | | | |
|----------------------------|----|---|---|
| Clamping units | 24 | Connection 1 | |
| Total number of potentials | 24 | Connection technology | CAGE CLAMP® |
| Number of connection types | 1 | Actuation type | Slider |
| Number of levels | 1 | Solid conductor | 0.08 ... 0.5 mm ² / 28 ... 20 AWG |
| | | Fine-stranded conductor | 0.08 ... 0.5 mm ² / 28 ... 20 AWG |
| | | Fine-stranded conductor; with insulated ferrule | 0.25 mm ² |
| | | Fine-stranded conductor; with uninsulated ferrule | 0.25 mm ² |
| | | Note (conductor cross-section) | Terminating 0.75 mm ² /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 | 24 |

Physical data

| | |
|-------------------------|--------------------------|
| Pin spacing | 2.5 mm / 0.098 inches |
| Width | 61.5 mm / 2.421 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 |
| ! | 1.1 ^(±0.1) mm |

PCB contact

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

Material data

| | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E _{cu}) |
| Contact Plating | Tin |
| Fire load | 0.387 MJ |
| Weight | 7.9 g |

Environmental requirements

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

Commercial data

| | |
|-----------------------|--------------------------------|
| Product Group | 4 (Printed Circuit Connectors) |
| PU (SPU) | 60 (15) pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4044918878166 |
| 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 |
|---------------------------------|--------------|------------------|
| CCA DEKRA Certification B.V. | EN 60947 | NTR NL-7076 |
| CCA DEKRA Certification B.V. | EN 60947-7-4 | NTR NL-7785 |
| CCA DEKRA Certification B.V. | EN 60947-7-4 | 77-111038 |

General approvals

| | | |
|-------------------------------------|---------------|------------|
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 1565656 |
| ENEC DEKRA Certification B.V. | EN 60947 | 2160584.01 |
| UL UL International Germany GmbH | UL 1059 | E45172 |



Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

Downloads

Environmental Product Compliance

| Compliance Search |
|---|
| Environmental Product Compliance 218-124 ↓ |

Documentation

| Additional Information |
|---|
| Technical Section 03.04.2019 pdf 2027.26 KB ↓ |

CAD/CAE-Data

| CAD data |
|--|
| 2D/3D Models 218-124 ↓ |

| CAE data |
|--|
| EPLAN Data Portal 218-124 ↓ |
| ZUKEN Portal 218-124 ↓ |

PCB Design

| |
|--|
| Symbol and Footprint via SamacSys 218-124 ↓ |
| Symbol and Footprint via Ultra Librarian 218-124 ↓ |

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 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-151

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / 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 0,5mm²

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

Installation Notes

Conductor termination



Terminating stranded conductors in confined spaces requires a great deal of patience, unless you use the new 218 Series PCB Terminal Strips. The clamping units of these strips can be held open during termination process via integrated locking slide.

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.

Conductor termination: To momentarily open the clamping unit, use screwdriver and then insert a stripped conductor. To open clamping unit for an extended period, move locking slide toward conductor entry hole. Then fully insert stripped conductor and move locking slide back to original position (also possible to perform with fingernail).

Incorrect – do not operate the locking slides from the back.

Marking



Labeling with self-adhesive marking strips.

Labeling via factory direct marking.

Testing



Testing directly on the clamping spring.