

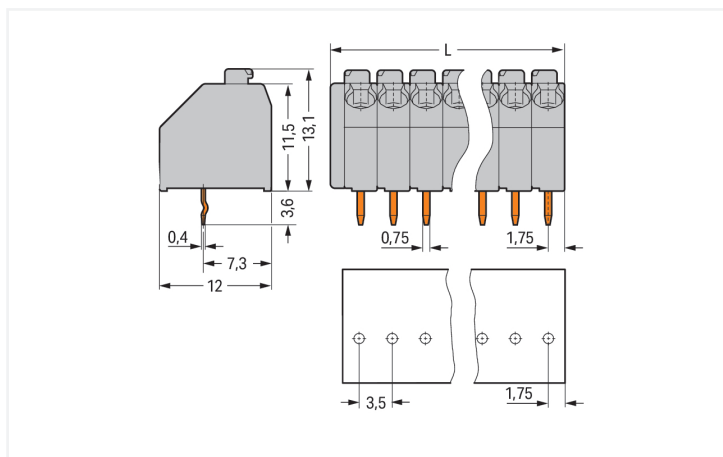
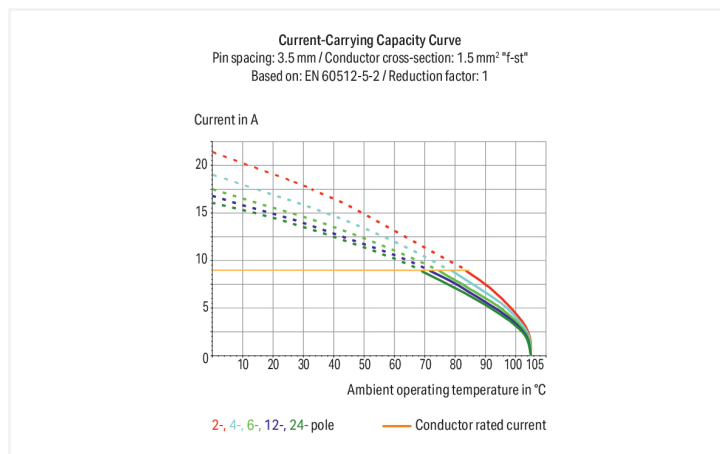
## Data Sheet | Item Number: 250-118

PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 18-pole; Push-in CAGE CLAMP®; gray

<https://www.wago.com/250-118>



Color: ■ gray



Dimensions in mm

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

PCB terminal block, 250 Series, push-button

Quick and easy connections are guaranteed with this PCB terminal block (item number 250-118). You can count on proven safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Conductors should only be connected to this PCB terminal block if their strip length is between 8.5 and 9.5 mm. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. Dimensions: (64.5 x 16.7 x 12) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 1.5 mm<sup>2</sup>. Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. THT is used to solder the PCB terminal block. Insert the conductor at a 45° angle..



| Notes     |                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole numbers<br>Other colors<br>Mixed-color PCB connector strips<br>Terminal strips with spacers<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            | II     |
| Pollution degree                |  | 3              | 2      |
| Nominal voltage                 |  | 160 V          | 320 V  |
| Rated impulse withstand voltage |  | 2.5 kV         | 2.5 kV |
| Rated current                   |  | 8 A            | 8 A    |

| Approvals per |  | UL 1059 |       |
|---------------|--|---------|-------|
| Use group     |  | B       | D     |
| Rated voltage |  | 300 V   | 300 V |
| Rated current |  | 5 A     | 5 A   |

| Approvals per |  | CSA   |       |
|---------------|--|-------|-------|
| Use group     |  | B     | D     |
| Rated voltage |  | 300 V | 300 V |
| Rated current |  | 10 A  | 10 A  |

| Connection Data            |    |
|----------------------------|----|
| Clamping units             | 18 |
| Total number of potentials | 18 |
| Number of connection types | 1  |
| Number of levels           | 1  |

| Connection 1                                      |                                       |
|---------------------------------------------------|---------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                   |
| Actuation type                                    | Push-button                           |
| Solid conductor                                   | 0.2 ... 1.5 mm² / 24 ... 16 AWG       |
| Fine-stranded conductor                           | 0.2 ... 1.5 mm² / 24 ... 16 AWG       |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1 mm²                        |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1 mm²                        |
| Strip length                                      | 8.5 ... 9.5 mm / 0.33 ... 0.37 inches |
| Conductor connection direction to PCB             | 45 °                                  |
| Pole number                                       | 18                                    |

| Physical data           |                          |
|-------------------------|--------------------------|
| Pin spacing             | 3.5 mm / 0.138 inches    |
| Width                   | 64.5 mm / 2.539 inches   |
| Height                  | 16.7 mm / 0.657 inches   |
| Height from the surface | 13.1 mm / 0.516 inches   |
| Depth                   | 12 mm / 0.472 inches     |
| Solder pin length       | 3.4 mm                   |
| Solder pin dimensions   | 0.4 x 0.75 mm            |
| Drilled hole diameter   | 1.1 <sup>(+0.1)</sup> mm |



| PCB contact                         |                                          |
|-------------------------------------|------------------------------------------|
| PCB contact                         | THT                                      |
| Solder pin arrangement              | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 1                                        |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | gray                                                                     |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Clamping spring material           | Copper alloy                                                             |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.167 MJ                                                                 |
| Weight                             | 8.4 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     | CH                             |
| GTIN                  | 4044918648011                  |
| 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               |          |                  | General approvals             |              |            |
|---------------------------------|----------|------------------|-------------------------------|--------------|------------|
|                                 |          |                  | CSA                           | C22.2        | 1132097    |
|                                 |          |                  | DEKRA Certification B.V.      |              |            |
|                                 |          |                  | DEKRA                         | EN 60947-7-4 | 71-141963  |
|                                 |          |                  | DEKRA Certification B.V.      |              |            |
|                                 |          |                  | KEMA/KEUR                     | EN 60947     | 2160584.18 |
|                                 |          |                  | DEKRA Certification B.V.      |              |            |
|                                 |          |                  | KEMA/KEUR                     | EN 60998     | 71-124629  |
|                                 |          |                  | DEKRA Certification B.V.      |              |            |
|                                 |          |                  | UL                            | UL 1059      | E45172     |
|                                 |          |                  | UL International Germany GmbH |              |            |
| Approval                        | Standard | Certificate Name |                               |              |            |
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL 7833/2    |                               |              |            |
| CCA<br>DEKRA Certification B.V. | EN 60998 | NTR NL-7705/1    |                               |              |            |



Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

|  |  |  |  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Approval                                                                          | Standard                                                                           | Certificate Name                                                                    |                                                                                     |
| ABS<br>American Bureau of Ship-<br>ping                                           | -                                                                                  | 24-0095975-PDA                                                                      |                                                                                     |
| BV<br>Bureau Veritas S.A.                                                         | IEC 60998                                                                          | 11915/E0 BV                                                                         |                                                                                     |
| DNV<br>DNV GL SE                                                                  | -                                                                                  | TAE000016Z                                                                          |                                                                                     |
| PRS<br>Polski Rejestr Statków                                                     | -                                                                                  | TE/1095/880590/23                                                                   |                                                                                     |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 250-118 |



Documentation

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



CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 250-118 |



| CAE data                     |
|------------------------------|
| EPLAN Data Portal<br>250-118 |
| ZUKEN Portal 250-118         |



| PCB Design                                             |
|--------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys 250-118           |
| Symbol and Footprint<br>via Ultra Librarian<br>250-118 |





1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip



**Item No.: 210-332/350-202**  
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/350-204**  
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/350-206**  
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.2 Test and measurement

1.1.2.1 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

1.1.3 Tool

1.1.3.1 Operating tool



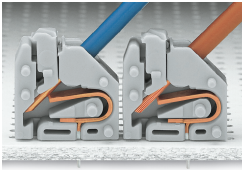
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

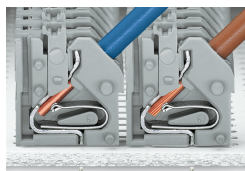
Installation Notes

Conductor termination



Inserting solid conductors via push-in termination.  
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

## Conductor termination

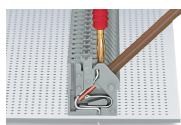


Space-saving wiring, 250 Series – 5 mm pin spacing.

## Testing

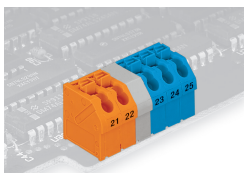


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

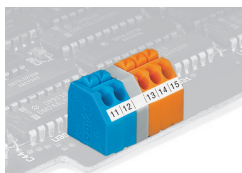


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

## Marking



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.