# Data sheet | Item number: 254-848

## Stackable PCB terminal block; 2.5 mm²; Pin spacing 5/5.08 mm; 1-pole; PUSH WIRE®; 2,50 mm²; green-yellow

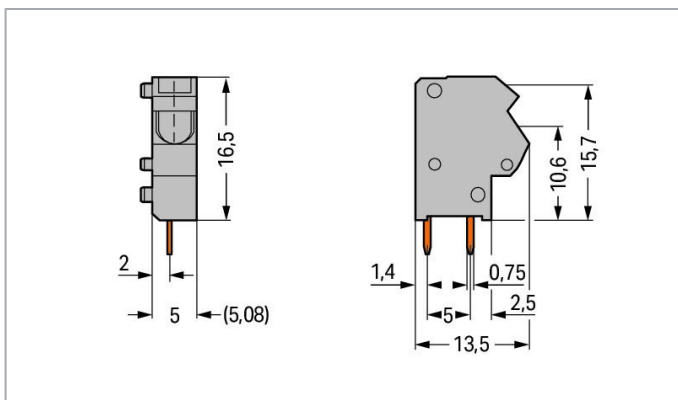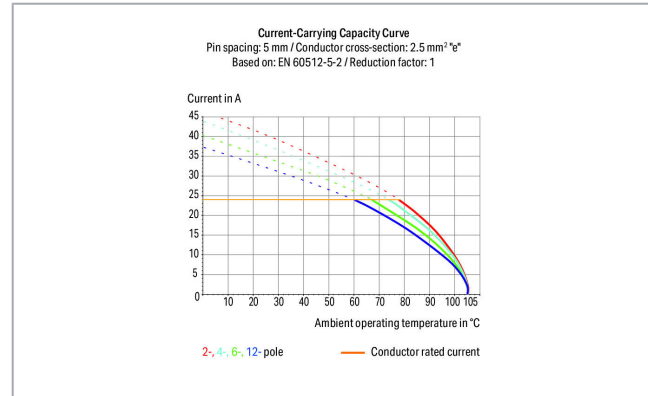www.wago.com/254-848

Picture differs from the item.

RoHS Compliant ✓

BOMcheck.net

Color: 🟨

**Current-Carrying Capacity Curve**
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "e"
Based on: EN 60512-5-2 / Reduction factor: 1

Current in A

Ambient operating temperature in °C

2-, 4-, 6-, 12- pole ——— Conductor rated current

## Item description

■ Modular PCB terminal blocks with PUSH WIRE® connection and screwdriver actuation for custom terminal strip assemblies

■ Push-in termination of solid and ferruled conductors

■ Test socket for 2 mm Ø test plug

■ Save space on the PCB, just 8.9 mm deep

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

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■ Also available with 2-conductor connection

## Data
### Electrical data

### Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|---|---|
| Nominal voltage (III/3) | 320 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| Nominal voltage (II/2) | 630 V |
| Rated surge voltage (II/2) | 4 kV |
| Rated current | 24 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

### Ratings per UL

| 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 D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

### Ratings per CSA

| 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

| Connection technology | PUSH WIRE® |
|---|---|
| Actuation type | Operating tool |
| Solid conductor | 0.5 … 2.5 mm² / 20 … 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 1.5 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 … 1.5 mm² |

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

| Note (conductor cross-section) | 12 AWG: THHN, THWN |
|---|---|
| Strip length | 10 … 12 mm / 0.39 … 0.47 inch |
| Conductor connection direction to PCB | 45° |
| Pole No. | 1 |
| Total number of connection points | 1 |
| Total number of potentials | 1 |
| Number of connection types | 1 |
| Number of levels | 1 |

## Physical data

| Pin spacing | 5/5.08 mm / 0.197/0.2 inch |
|---|---|
| Width | 6.7 mm / 0.264 inch |
| Height | 19.7 mm / 0.776 inch |
| Height from the surface | 15.7 mm / 0.618 inch |
| Depth | 13.5 mm / 0.531 inch |
| Solder pin length | 4 mm |
| Solder pin dimensions | 0.5 x 0.75 mm |
| Drilled hole diameter with tolerance | $1.1^{(+0.1)}$ 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

| Color | green-yellow |
|---|---|
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact plating | tin-plated |
| Weight | 1.1 g |

## Environmental requirements

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

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

## Commercial data

| | |
|---|---|
| Packaging type | BOX |
| Country of origin | PL |
| GTIN | 4055143834056 |
| Customs tariff number | 85369010000 |

## Downloads

### Documentation

**Additional Information**

| | | | |
|---|---|---|---|
| Technical explanations | 3. 4. 2019 | pdf<br>2.0 MB | Download |

## CAD/CAE-Data

**PCB Design**

| | | |
|---|---|---|
| Symbol and Footprint 254-848 | | URL | Download |

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

**Supported formats:**

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP

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

- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

### CAD data

| 2D/3D Models 254-848 | URL | Download |
|---|---|---|

### CAE data

| ZUKEN Portal 254-848 | URL | Download |
|---|---|---|

## Environmental Product Compliance

### Compliance Search

| Environmental Product Compliance 254-848 | URL | Download |
|---|---|---|

Stackable PCB terminal block; 2.5 mm²; Pin spacing 5/5.08 mm; 1-pole; PUSH WIRE®; 2,50 mm²; green-yellow

## Installation Notes

### Conductor termination
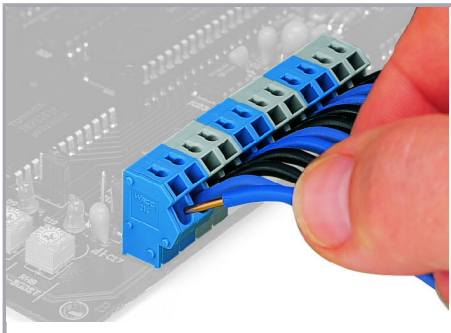


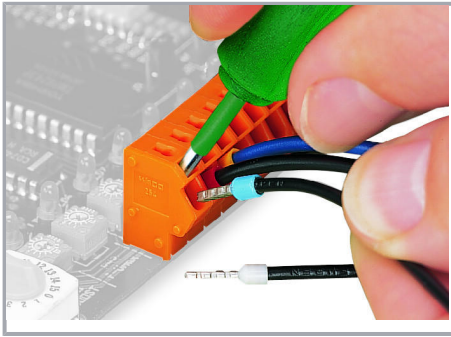Insert solid conductors via push-in termination.
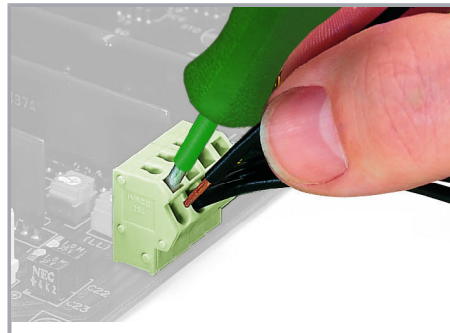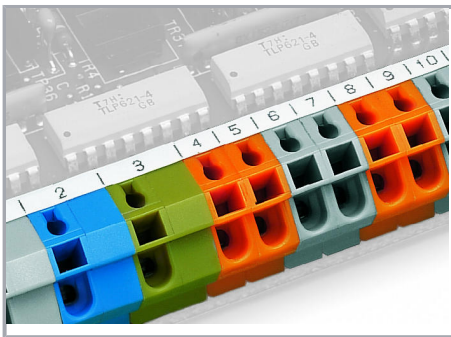


Inserting a tip-bonded conductor via screwdriver.
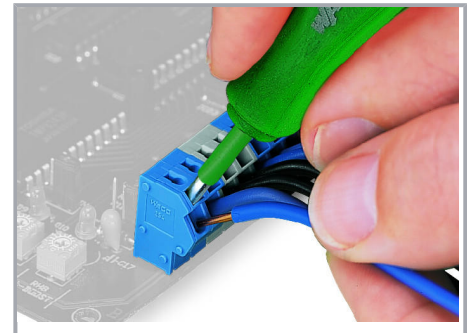


Removing a solid conductor.

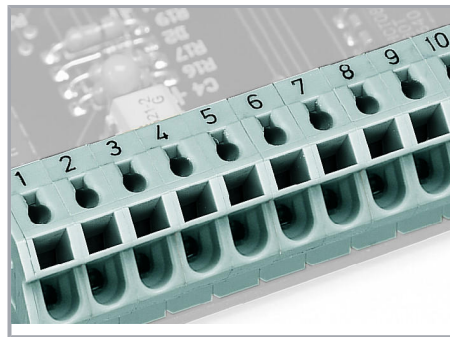Subject to changes. Please also observe the further product documentation!

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Inserting/removing a ferruled conductor.
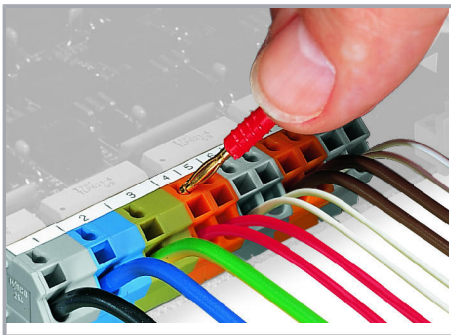
## Marking



Labeling via self-adhesive marking strips.



Labeling via factory direct marking.

## Testing



Testing with 2 mm Ø test plug.

## Installation

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
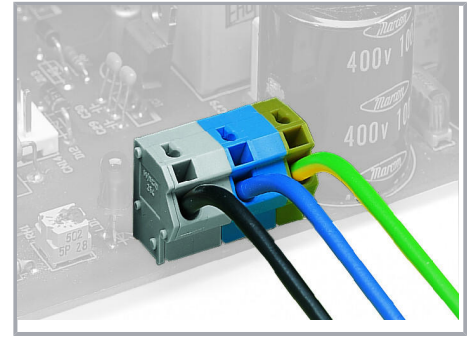Email: info.de@wago.com | Web: www.wago.com

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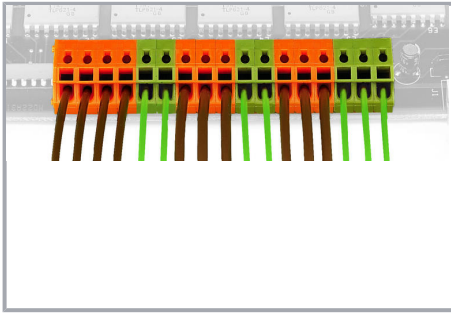
Mixed terminal strips can be assembled using different housing colors for the formation of groups.
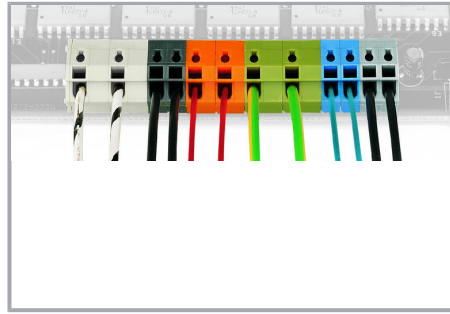


Mixed terminal strips can be assembled using different pin spacing and housing colors for the formation of groups.



Application example: field-wiring terminal strip

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