

## Data sheet | Item number: 255-416/333-000

PCB terminal block; finger-operated levers; 2.5 mm<sup>2</sup>; Pin spacing 5/5.08 mm;  
16-pole; CAGE CLAMP®; commoning option; 2,50 mm<sup>2</sup>; gray



[www.wago.com/255-416/333-000](http://www.wago.com/255-416/333-000)

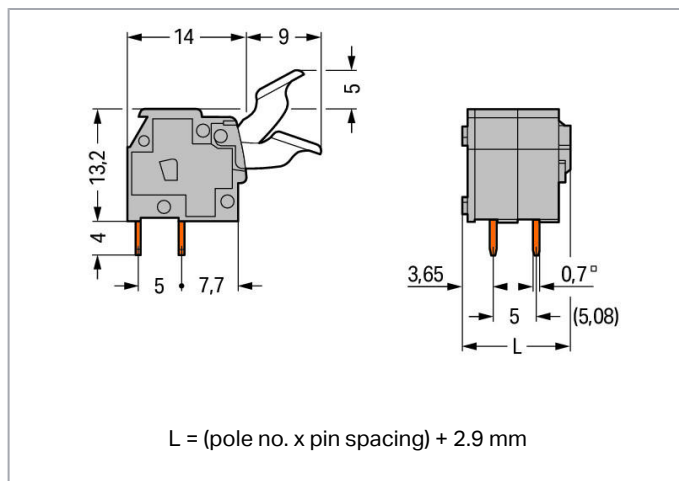
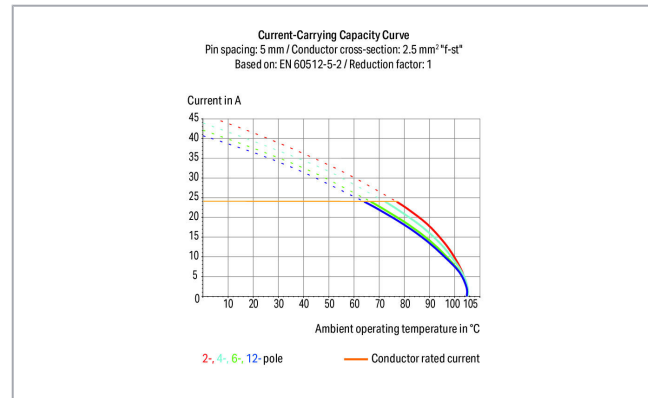


 Picture differs from the item.

RoHS  Compliant



Color: 



### Item description

- PCB terminal blocks with push-buttons and CAGE CLAMP® connection
- Versions with Ex approval
- Set to metric or inch pin spacing by compressing PCB terminal strips or pulling them apart

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

WAGO Kontakttechnik GmbH & Co. KG  
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Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.



- Ideal for in-the-field wiring thanks to simplified push-button actuation
- Convenient, tool-free operation

## 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) $\hat{=}$ 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) | 15 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) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                         |  |
|-------------------------|--|
| Connection technology   | CAGE CLAMP®                                  |
| Actuation type          | Finger-operated lever                        |
| Solid conductor         | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |

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



|   |                                |
|---|--------------------------------|
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm <sup>2</sup>   |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm <sup>2</sup>   |
| Note (conductor cross-section)                    | 12 AWG: THHN, THWN             |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Conductor connection direction to PCB             | 90°                            |
| Pole No.  | 16                             |
| Total number of connection points                 | 16                             |
| Total number of potentials                        | 16                             |
| Number of connection types                        | 1                              |
| Number of levels                                  | 1                              |

### Physical data

|                                      |                            |
|--------------------------------------|----------------------------|
| Pin spacing                          | 5/5.08 mm / 0.197/0.2 inch |
| Width                                | 82.9 mm / 3.264 inch       |
| Height                               | 22.2 mm / 0.874 inch       |
| Height from the surface              | 14.2 mm / 0.559 inch       |
| Depth                                | 23 mm / 0.906 inch         |
| Solder pin length                    | 4 mm                       |
| Solder pin dimensions                | 0.7 x 0.7 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                       | gray                                   |
| 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 <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.294 MJ                               |
| Weight                      | 19.7 g                                 |

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

## Environmental requirements


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

## Commercial data

|                       |                     |
|-----------------------|---------------------|
| Product Group         | 4 (Printed Circuit) |
| Packaging type        | BOX                 |
| Country of origin     | CH                  |
| GTIN                  | 4044918660426       |
| Customs tariff number | 85369010000         |

## Approvals / Certificates

### UL-Approvals

| Logo   | Approval                             | Additional Approval Text | Certificate name    |
|--|--------------------------------------|--------------------------|---------------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | 20180629-<br>E45172 |

## Compatible products

### Marking accessories

|  |  |
|--|--|
| <b>Item no.: 210-332/500-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white  | <a href="http://www.wago.com/210-332/500-202">www.wago.com/210-332/500-202</a> |
| <b>Item no.: 210-332/500-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <a href="http://www.wago.com/210-332/500-204">www.wago.com/210-332/500-204</a> |
| <b>Item no.: 210-332/500-205</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white   | <a href="http://www.wago.com/210-332/500-205">www.wago.com/210-332/500-205</a> |
| <b>Item no.: 210-332/500-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <a href="http://www.wago.com/210-332/500-206">www.wago.com/210-332/500-206</a> |
| <b>Item no.: 210-332/508-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white  | <a href="http://www.wago.com/210-332/508-202">www.wago.com/210-332/508-202</a> |
| <b>Item no.: 210-332/508-204</b>   |  |

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

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/508-204](http://www.wago.com/210-332/508-204)

**Item no.: 210-332/508-205**

Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/508-205](http://www.wago.com/210-332/508-205)

**Item no.: 210-332/508-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/508-206](http://www.wago.com/210-332/508-206)



**Item no.: 210-833**

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)

**ferrule**



**Item no.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-101](http://www.wago.com/216-101)



**Item no.: 216-102**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-102](http://www.wago.com/216-102)



**Item no.: 216-103**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

[www.wago.com/216-103](http://www.wago.com/216-103)



**Item no.: 216-104**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-104](http://www.wago.com/216-104)



**Item no.: 216-121**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-121](http://www.wago.com/216-121)



**Item no.: 216-122**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-122](http://www.wago.com/216-122)



**Item no.: 216-123**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-123](http://www.wago.com/216-123)



**Item no.: 216-124**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

[www.wago.com/216-124](http://www.wago.com/216-124)



**Item no.: 216-131**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-131](http://www.wago.com/216-131)



**Item no.: 216-132**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

[www.wago.com/216-132](http://www.wago.com/216-132)



**Item no.: 216-141**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

[www.wago.com/216-141](http://www.wago.com/216-141)



**Item no.: 216-142**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

[www.wago.com/216-142](http://www.wago.com/216-142)

**Item no.: 216-143**

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

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Do you have any questions about our products?

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|  |   |  |
|--|---|--|
|    | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                   | <a href="http://www.wago.com/216-143">www.wago.com/216-143</a> |
|  | <b>Item no.: 216-144</b>  |  |
|    | Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <a href="http://www.wago.com/216-144">www.wago.com/216-144</a> |
|  | <b>Item no.: 216-151</b>  | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|    | Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated  |  |
|  | <b>Item no.: 216-152</b>  | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|    | Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated  |  |
|  | <b>Item no.: 216-201</b>  | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|    | Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white  |  |
|  | <b>Item no.: 216-202</b>  | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|    | Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray  |  |
|  | <b>Item no.: 216-203</b>  | <a href="http://www.wago.com/216-203">www.wago.com/216-203</a> |
|    | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red  |  |
|  | <b>Item no.: 216-204</b>  | <a href="http://www.wago.com/216-204">www.wago.com/216-204</a> |
|    | Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black  |  |
|  | <b>Item no.: 216-221</b>  | <a href="http://www.wago.com/216-221">www.wago.com/216-221</a> |
|   | Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white  |  |
|  | <b>Item no.: 216-222</b>  | <a href="http://www.wago.com/216-222">www.wago.com/216-222</a> |
|  | Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray  |  |
|  | <b>Item no.: 216-223</b>  | <a href="http://www.wago.com/216-223">www.wago.com/216-223</a> |
|  | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red  |  |
|  | <b>Item no.: 216-224</b>  | <a href="http://www.wago.com/216-224">www.wago.com/216-224</a> |
|  | Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black  |  |
|  | <b>Item no.: 216-241</b>  | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white            |  |
|  | <b>Item no.: 216-242</b>  | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray            |  |
|  | <b>Item no.: 216-243</b>  | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|  | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red                |  |
|  | <b>Item no.: 216-244</b>  | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a> |
|  | Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black            |  |
|  | <b>Item no.: 216-262</b>  | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a> |
|  | Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray            |  |
|  | <b>Item no.: 216-263</b>  |  |

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

|   |  |  |
|---|--|--|
|    | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red                                 | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a> |
|    | <b>Item no.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-264">www.wago.com/216-264</a> |
|    | <b>Item no.: 216-284</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-284">www.wago.com/216-284</a> |
|   | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow   | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|    | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green  | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |
|   | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow   | <a href="http://www.wago.com/216-321">www.wago.com/216-321</a> |
|    | <b>Item no.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green  | <a href="http://www.wago.com/216-322">www.wago.com/216-322</a> |
| <b>check</b>  |  |  |
|   | <b>Item no.: 249-110</b><br>Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5 mm / 0.197 in; gray  | <a href="http://www.wago.com/249-110">www.wago.com/249-110</a> |
|  | <b>Item no.: 249-111</b><br>Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5.08 mm / 0.2 in; orange   | <a href="http://www.wago.com/249-111">www.wago.com/249-111</a> |

## Downloads

### Documentation

#### Additional Information

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

## CAD/CAE-Data

### PCB Design

|                                      |     |          |
|--------------------------------------|-----|----------|
| Symbol and Footprint 255-416/333-000 | 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

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



- 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
- 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

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#### CAD data

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| 2D/3D Models 255-416/333-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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#### CAE data

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| ZUKEN Portal 255-416/333-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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## Environmental Product Compliance

### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 255-416/333-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

PCB terminal block; finger-operated levers; 2.5 mm<sup>2</sup>; Pin spacing 5/5.08 mm; 16-pole; CAGE CLAMP®; commoning option; 2,50 mm<sup>2</sup>; gray

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## Installation Notes

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

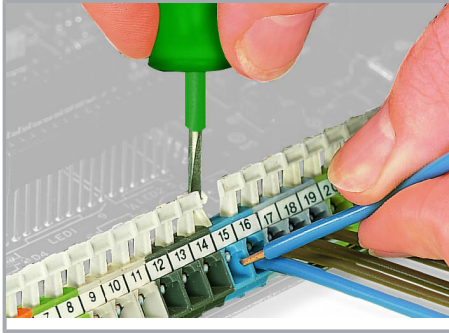
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Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

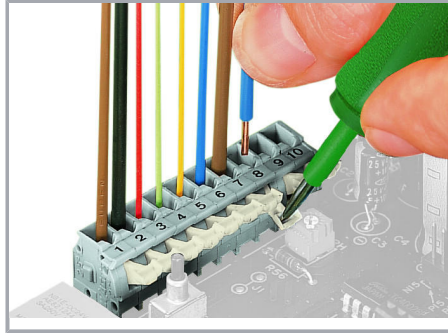
Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.



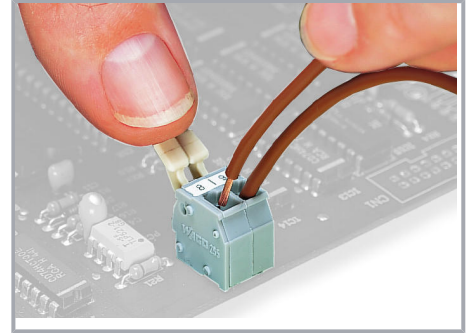
### Conductor termination



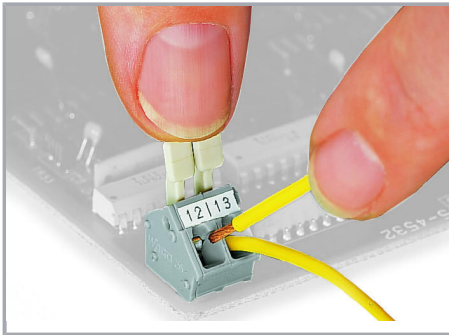
Inserting/removing a conductor – 256 Series.



Inserting/removing a conductor (255 Series)

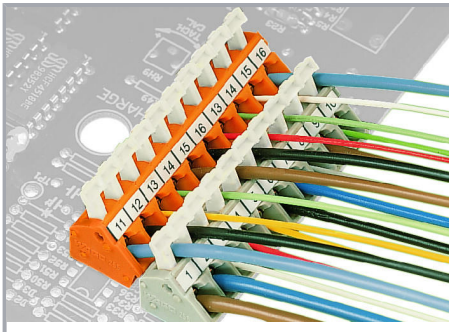


Inserting/removing a conductor via finger-operated lever – 255 Series.



Inserting/removing a conductor via finger-operated lever – 256 Series.

### Installation



Possible conductor arrangement with terminal strips staggered (for 256 Series only).

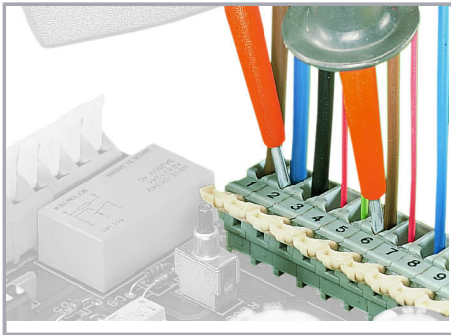
### Marking

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

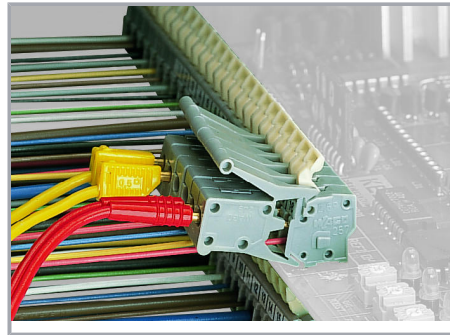


Formation of groups using housings of different colors

### Testing



Testing with test probes.



Testing with test plug modules.

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