

## Data sheet | Item number: 2086-3126

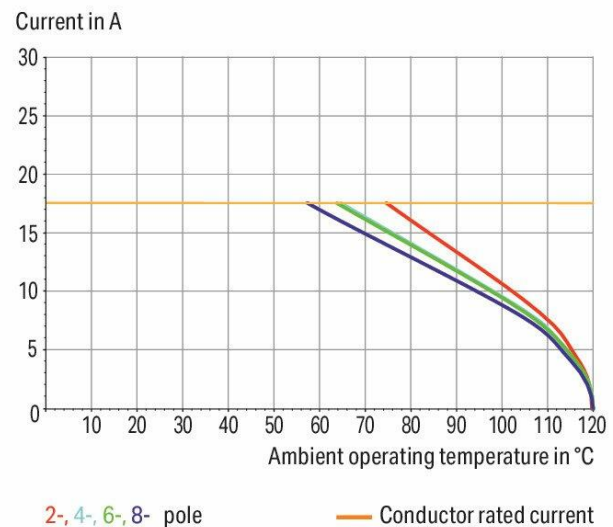
THR PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 5 mm; 6-pole;  
Push-in CAGE CLAMP®; 1,50 mm<sup>2</sup>; black

[www.wago.com/2086-3126](http://www.wago.com/2086-3126)



Color: ■

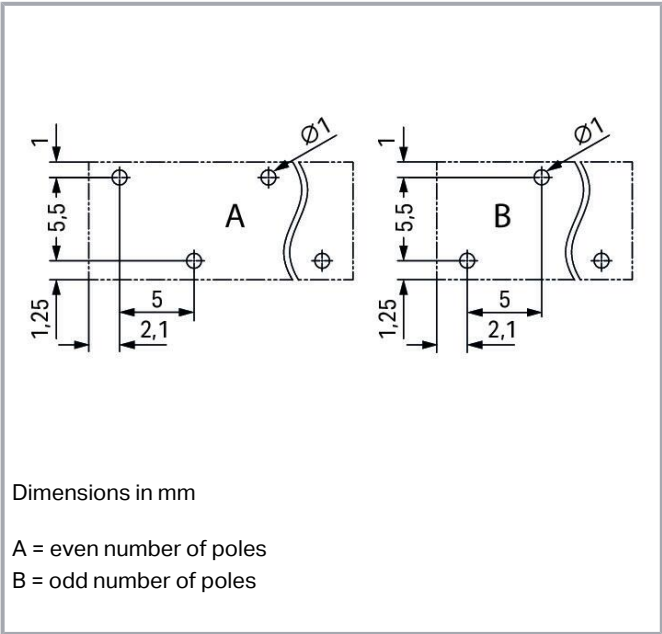
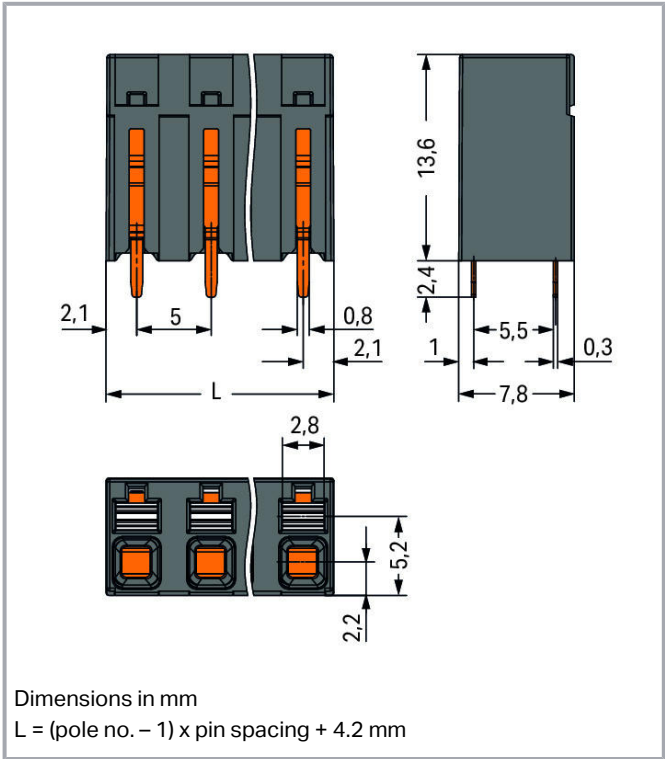
**Current-Carrying Capacity Curve**  
Pin spacing: 5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



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](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.



Item description

- Ideal for compact device connection, panel feedthrough and tight spaces
- Push-in CAGE CLAMP® allows push-in termination of solid and fine-stranded conductors with ferrules
- SMD and THR variants available
- Delivery in tape-and-reel packaging for full integration into SMT soldering process
- Push-button moves in direction of conductor connection
- Conductor connection and mating direction both parallel and perpendicular to the PCB
- Choice of double pin spacing or alternating pin spacing, 3.5 and 5 mm pin spacing

Data  
Electrical data

Ratings per IEC/EN

| Ratings per                 | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Nominal voltage (III/3)     | 500 V          |
| Rated surge voltage (III/3) | 6 kV           |
| Rated voltage (III/2)       | 630 V          |

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

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



|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| Rated surge voltage (III/2) | 6 kV                                                                 |
| Nominal voltage (II/2)      | 1000 V                                                               |
| Rated surge voltage (II/2)  | 6 kV                                                                 |
| Rated current               | 17.5 A                                                               |
| Legend (ratings)            | (III / 2) $\triangleq$ 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 C) | 300 V   |
| Rated current UL (Use Group C) | 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

|                            |   |
|----------------------------|---|
| Total number of potentials | 6 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                          |
| Actuation type                                    | Push-button                                  |
| Solid conductor                                   | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor                           | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm <sup>2</sup>                |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Conductor diameter                                | 24 ... 16 AWG                                |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inch              |

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



|                                       |     |
|---------------------------------------|-----|
| Conductor connection direction to PCB | 90° |
| Pole No.                              | 6   |

## Physical data

|                                    |                        |
|------------------------------------|------------------------|
| Pin spacing                        | 5 mm / 0.197 inch      |
| Width                              | 29.2 mm / 1.15 inch    |
| Height                             | 16 mm / 0.63 inch      |
| Height from the surface            | 13.6 mm / 0.535 inch   |
| Depth                              | 7.8 mm / 0.307 inch    |
| Solder pin length                  | 2.4 mm                 |
| Solder pin dimensions              | 0.3 x 0.8 mm           |
| Plated through-hole diameter (THR) | 1 <sup>(+0.1)</sup> mm |

## PCB contact

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| PCB Contact                         | THR                                        |
| Solder pin arrangement              | over the entire terminal strip (staggered) |
| Number of solder pins per potential | 1                                          |

## Material data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | black                                  |
| Insulation material         | Polyphthalamide (PPA GF)               |
| 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                             |
| Weight                      | 3.6 g                                  |

## Environmental requirements

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

## Commercial data

|                   |               |
|-------------------|---------------|
| PU (SPU)          | 108 Stück     |
| Packaging type    | BOX           |
| Country of origin | CH            |
| GTIN              | 4055144090505 |

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](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.

Customs tariff number

85369010000

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                             | Approval                                     | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                  | <b>CB</b><br>DEKRA Certification B.V.        | IEC 60947-7-4            | NL-74022         |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 80060692         |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 60947-7-4             | 71-<br>119449    |

## Optional accessories

### Testing and measuring

#### Testing accessories

|                                                                                    |                                                                                    |                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 735-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |
|  | <b>Item no.: 859-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | <a href="http://www.wago.com/859-500">www.wago.com/859-500</a> |

### Tool

#### Operating tool

|                                                                                   |                                                                                                   |                                                                |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

### Ferrule

#### Ferrule

|                                                                                   |                                                                                                                    |                                                                |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|  | <b>Item no.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-104">www.wago.com/216-104</a> |
|  | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |
|  | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated                    | <a href="http://www.wago.com/216-103">www.wago.com/216-103</a> |

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](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.



|                                                                                   |                                                                                                                                                                                                       |                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 216-142</b><br>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                | <a href="http://www.wago.com/216-142">www.wago.com/216-142</a> |
|    | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-132">www.wago.com/216-132</a> |
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored                                                                         | <a href="http://www.wago.com/216-121">www.wago.com/216-121</a> |
|    | <b>Item no.: 216-143</b><br>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.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored                                                                        | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|    | <b>Item no.: 216-141</b><br>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                 | <a href="http://www.wago.com/216-141">www.wago.com/216-141</a> |
|    | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|    | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                                    | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|    | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|  | <b>Item no.: 216-144</b><br>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.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                                    | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-241</b><br>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            | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>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            | <a href="http://www.wago.com/216-242">www.wago.com/216-242</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> |

## Downloads

## Documentation

## Additional Information

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](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.



|                        |             |                 |          |
|------------------------|-------------|-----------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>2.0 MB   | Download |
| THR Soldering Process  |             | pdf<br>548.2 kB | Download |

## CAD/CAE-Data

### CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2086-3126 | URL | Download |
|------------------------|-----|----------|

### CAE data

|                        |     |          |
|------------------------|-----|----------|
| ZUKEN Portal 2086-3126 | URL | Download |
|------------------------|-----|----------|

## Environmental Product Compliance

### Compliance Search

|                                                                                                                                        |     |          |
|----------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 2086-3126                                                                                             | URL | Download |
| THR PCB terminal block; push-button; 1.5 mm <sup>2</sup> ; Pin spacing 5 mm; 6-pole; Push-in CAGE CLAMP®; 1,50 mm <sup>2</sup> ; black |     |          |

## Installation Notes

### Conductor termination



Inserting solid conductor via push-in termination.

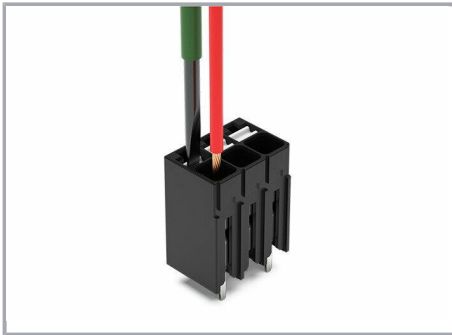
### Conductor removal

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



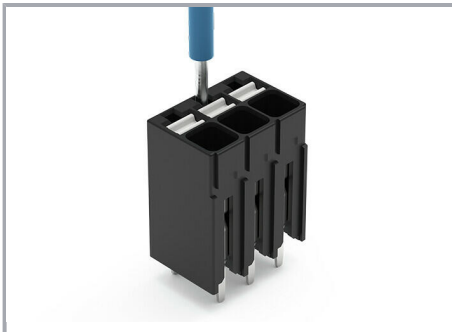
Removing fine-stranded conductors via push-buttons.

#### Conductor termination



Inserting and removing fine-stranded conductors via push-buttons.

#### Testing

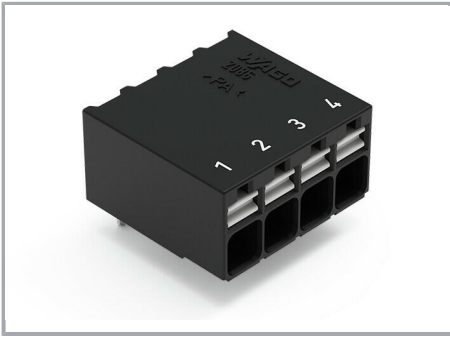


Testing via 1 mm Ø test pin.

Touch contact with current bar.

#### Marking

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



Pole marking via direct marking  
perpendicular to conductor entry.

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](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.