

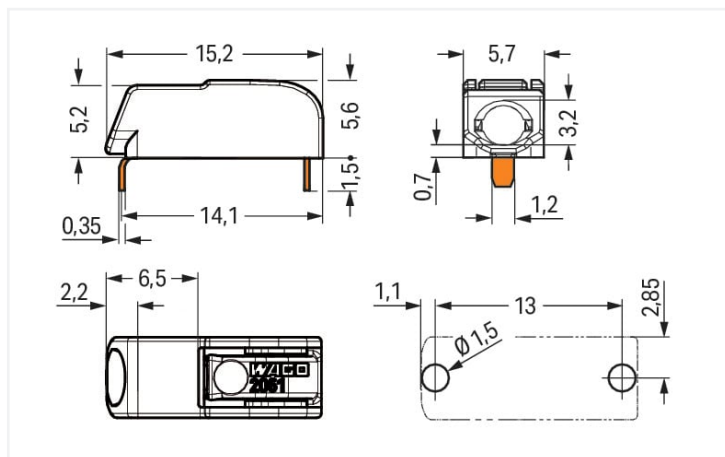
# Data Sheet | Item Number: 2061-1641/998-404

THR PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 6 mm; 1-pole; Push-in  
CAGE CLAMP®; in tape-and-reel packaging; 1,50 mm<sup>2</sup>; white

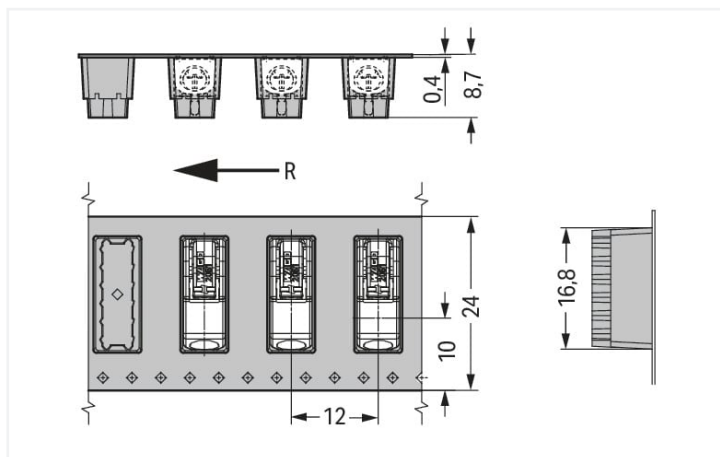
<https://www.wago.com/2061-1641/998-404>



Color: ■ white

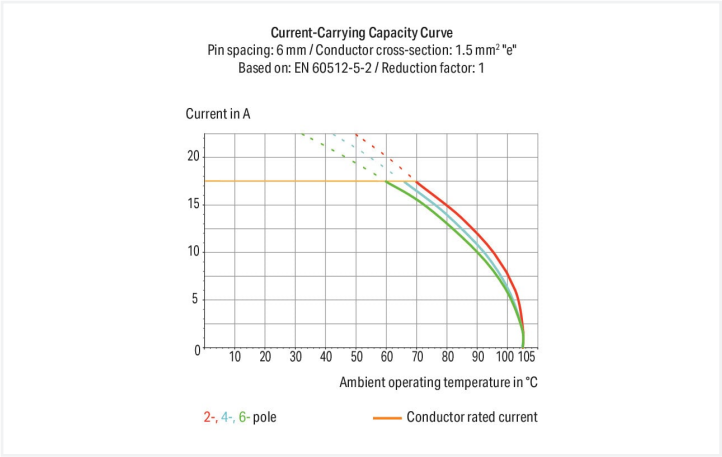


Dimensions in mm



Dimensions in mm

R = feed direction





- THR PCB terminal blocks with Push-in CAGE CLAMP® connection technology and push-buttons
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Just 5.6 mm tall
- Available in tape-and-reel packaging for automated assembly
- Also suitable for wave soldering
- Assemble terminal blocks without pole loss

| Notes          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note           | <p>Application notes:<br/>Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260°C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.</p> <p>Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.</p> |
| Recommendation | <p>Recommendation for stencil:<br/>150 µm material thickness<br/>Stencil hole diameter identical to metal-plated PCB hole outer diameter</p>                                                                                                                                                                                                                                                                                                                                                                                                     |



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         | 600 V | - | 600 V |
| Nominal voltage            | 250 V  | 320 V  | 630 V  | Rated current         | 10 A  | - | 5 A   |
| Rated surge voltage        | 4 kV   | 4 kV   | 4 kV   |                       |       |   |       |
| Rated current              | 17.5 A | 17.5 A | 17.5 A |                       |       |   |       |

Connection data

|                            |   |                                                   |                                    |
|----------------------------|---|---------------------------------------------------|------------------------------------|
| Connection points          | 1 | Connection 1                                      |                                    |
| Total number of potentials | 1 | Connection technology                             | Push-in CAGE CLAMP®                |
| Number of connection types | 1 | Actuation type                                    | Push-button                        |
| Number of levels           | 1 | Solid conductor                                   | 0.25 ... 1.5 mm² / 20 ... 16 AWG   |
|                            |   | Fine-stranded conductor                           | 0.5 ... 1.5 mm² / 20 ... 16 AWG    |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.5 ... 0.75 mm²                   |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 0.75 mm²                   |
|                            |   | Strip length                                      | 7 ... 10 mm / 0.28 ... 0.39 inches |
|                            |   | Conductor connection direction to PCB             | 0°                                 |
|                            |   | Pole number                                       | 1                                  |

Physical data

|                                          |                        |
|------------------------------------------|------------------------|
| Pin spacing                              | 6 mm / 0.24 inches     |
| Width                                    | 5.7 mm / 0.224 inches  |
| Height                                   | 7.1 mm / 0.28 inches   |
| Height from the surface                  | 5.6 mm / 0.22 inches   |
| Depth                                    | 15.2 mm / 0.598 inches |
| Solder pin length                        | 1.5 mm                 |
| Solder pin dimensions                    | 1.2 x 0.35 mm          |
| Plated through-hole diameter (THR)       | 1.5 (+0.1) mm          |
| Reel diameter of tape-and-reel packaging | 330 mm                 |
| Tape width                               | 24 mm                  |

PCB contact

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

Material data

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | white                                                                                                                  |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyphthalamide (PPA GF)                                                                                               |
| Flammability class per UL94 | V0                                                                                                                     |
| Contact material            | Copper alloy                                                                                                           |
| Contact plating             | Tin                                                                                                                    |
| Fire load                   | 0.014 MJ                                                                                                               |
| Weight                      | 1.1 g                                                                                                                  |
| MSL per J-STD 020D          | 1                                                                                                                      |



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

| Commercial data       |                |
|-----------------------|----------------|
| eCl@ss 10.0           | 27-14-11-06    |
| eCl@ss 9.0            | 27-14-11-06    |
| ETIM 8.0              | EC001284       |
| ETIM 7.0              | EC001284       |
| PU (SPU)              | 5760 (640) pcs |
| Packaging type        | Box            |
| Country of origin     | CN             |
| GTIN                  | 4055143274722  |
| Customs tariff number | 85369010000    |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

## Approvals / Certificates

### General approvals



| Approval                                | Standard     | Certificate Name |
|-----------------------------------------|--------------|------------------|
| CCA<br>DEKRA Certification B.V.         | EN 60947-7-4 | NTR NL-7773      |
| CCA<br>DEKRA Certification B.V.         | EN 60947-7-4 | 71-110254        |
| CCA<br>DEKRA Certification B.V.         | EN 60838     | NTR NL-7721      |
| cURus<br>Underwriters Laboratories Inc. | UL 1059      | E45172           |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60838     | 71-106232        |

## Downloads

### Environmental Product Compliance

| Compliance Search                                     |  |
|-------------------------------------------------------|--|
| Environmental Product Compliance<br>2061-1641/998-404 |  |



Documentation

| Additional Information |            |                   |  |
|------------------------|------------|-------------------|--|
| Technical Section      | 03.04.2019 | pdf<br>2010.85 KB |  |
|                        |            | pdf<br>535.32 KB  |  |

CAD/CAE-Data

| CAD data                          |
|-----------------------------------|
| 2D/3D Models<br>2061-1641/998-404 |
|                                   |

| CAE data                          |
|-----------------------------------|
| ZUKEN Portal<br>2061-1641/998-404 |
|                                   |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                                                                                                                        |                                                                                                                                                                                                        |                                                                                                                                                                                                   |                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><a href="#">Item No.: 216-241</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; white | <br><a href="#">Item No.: 216-201</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; white                                                                               | <br><a href="#">Item No.: 216-141</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-<br>insulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 1/08.92 | <br><a href="#">Item No.: 216-101</a><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-<br>insulated; electro-tin plated; silver-colo-<br>red                                                           |
| <br><a href="#">Item No.: 216-242</a><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray | <br><a href="#">Item No.: 216-262</a><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray | <br><a href="#">Item No.: 216-202</a><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; gray                                                                          | <br><a href="#">Item No.: 216-142</a><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG;<br>uninsulated; electro-tin plated; electroly-<br>tic copper; gastight crimped; acc. to DIN<br>46228, Part 1/08.92 |
| <br><a href="#">Item No.: 216-102</a><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-<br>insulated; electro-tin plated; silver-colored                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                   |                                                                                                                                                                                                    |

1.1.2 Tool

1.1.2.1 Operating tool

|                                                                          |                                                                                            |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <br><a href="#">Item No.: 206-866</a><br>Operating tool; for 2061 Series | <br><a href="#">Item No.: 2061-190</a><br>Operating tool; made of insulating materi-<br>al |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|

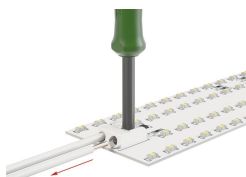
## Installation Notes

### Conductor termination



Inserting solid conductors via push-in termination.

### Conductor termination



Easy conductor removal, e.g., via operating tool (206-861)