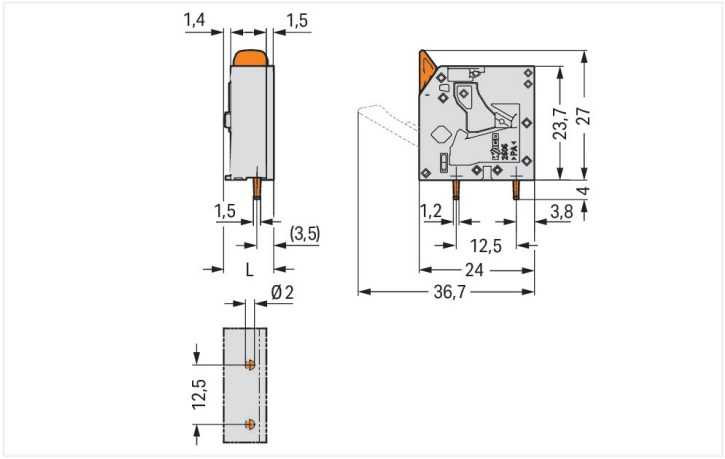
# Data Sheet | Item Number: 2606-3101

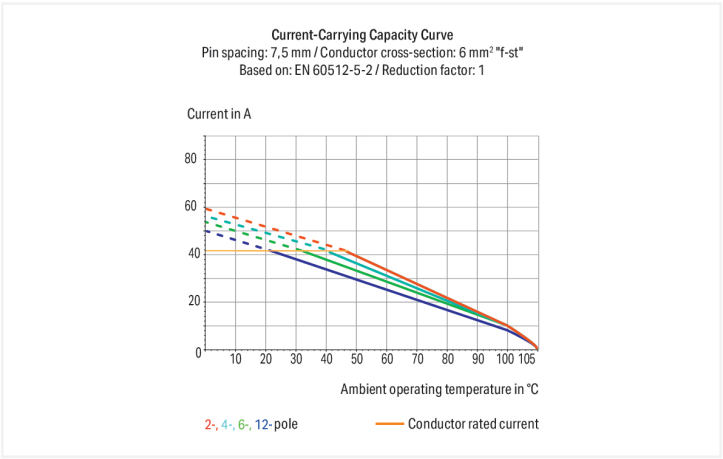
PCB terminal block; lever; 6 mm²; Pin spacing 7.5 mm; 1-pole; Push-in CAGE CLAMP®; gray

https://www.wago.com/2606-3101

Color: gray




Dimensions in mm
L = 10.35 mm




PCB terminal block, 2606 Series, solder pin dimensions 1.5 x 1.2 mm

Our PCB terminal block (item number 2606-3101) makes connecting wires quick and easy. It is perfect for custom installations with different mounting types. This PCB terminal block has a rated voltage of 1000 V and can handle currents up to 41 A, making it ideal for high-load applications. Ensure that the strip lengths are between 11 mm and 13 mm when connecting conductors to this PCB terminal block. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The dimensions are 10.35 x 31 x 24 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 10 mm². It has one level. The single potential can connect one pole using one clamping point The gray housing is made of polyamide (PA66) for insulation, the contacts are made of electrolytic copper (ECu), and the clamping spring is made of chrome-nickel spring steel (CrNi). The contact surface is coated with tin. This PCB terminal block is operated with a lever. The PCB terminal block is designed for THT soldering. Insert the conductor into the board at an angle of 90°.. The solder pins are organized over the entire terminal strip (in-line). They are 1.5 x 1.2 mm cross-section and 4 mm in length. Each potential has two solder pins.

## Notes

| | |
|---|---|
| Note | The inherent stability of a single-pole PCB terminal block is less than that of a multi-pole terminal strip. The customer must therefore ensure that these terminal blocks are protected against excessive mechanical stress (e.g., torsional or bending stress), both when connecting the conductor and during subsequent use, for example by providing additional support, shortly holding the connected conductor and appropriate actuation instructions. |
| Variants: | Other pole numbers<br>Direct marking<br>Other colors<br>Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/. |

## Electrical data

| Ratings per | IEC/EN 60664-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 1000 V | 1000 V | 1000 V |
| Rated surge voltage | 8 kV | 8 kV | 8 kV |
| Rated current | 41 A | 41 A | 41 A |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 600 V | 600 V | - |
| Rated current | 31 A | 31 A | - |

| Approvals per | CSA | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 600 V | 1000 V | - |
| Rated current | 31 A | 31 A | - |

## Connection data

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

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Lever |
| Solid conductor | 0.2 … 10 mm² / 24 … 8 AWG |
| Fine-stranded conductor | 0.2 … 10 mm² / 24 … 8 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 6 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 … 6 mm² |
| Fine-stranded conductor; with twin ferrule | 0.25 … 2.5 mm² |
| Strip length | 11 … 13 mm / 0.43 … 0.51 inches |
| Conductor connection direction to PCB | 90 ° |
| Pole number | 1 |

## Physical data

| | |
|---|---|
| Pin spacing | 7.5 mm / 0.295 inches |
| Width | 10.35 mm / 0.407 inches |
| Height | 31 mm / 1.22 inches |
| Height from the surface | 27 mm / 1.063 inches |
| Depth | 24 mm / 0.945 inches |
| Solder pin length | 4 mm |
| Solder pin dimensions | 1.5 x 1.2 mm |
| Drilled hole diameter with tolerance | 2 $^{(+0.1)}$ 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

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact Plating | Tin |
| Fire load | 0.035 MJ |
| Actuator color | orange |
| Weight | 5 g |

## Environmental requirements

| | |
|---|---|
| Limit temperature range | -60 … +105 °C |
| Processing temperature | -35 … +60 °C |
| Continuous operating temperature | -60 … +105 °C |

### Environmental Testing (Environmental Conditions)

| | |
|---|---|
| Test specification<br>Railway applications –<br>Rolling stock –<br>Electronic equipment | DIN EN 50155 (VDE 0115-200):2022-06 |
| Test procedure<br>Railway applications –<br>Rolling stock equipment –<br>Shock and vibration tests | DIN EN 61373 (VDE 0115-0106):2011-04 |
| Spectrum/Installation location | Service life test, Category 1, Class A/B |
| Function test with noise-like vibration | Test passed according to Section 8 of the standard |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz<br>$f_1$ = 5 Hz to $f_2$ = 150 Hz |
| Acceleration | 0.101g (highest test level used for all axes)<br>0.572g (highest test level used for all axes)<br>5g (highest test level used for all axes) |
| Test duration per axis | 10 min.<br>5 h |
| Test directions | X, Y and Z axes<br>X, Y and Z axes<br>X, Y and Z axes |
| Monitoring for contact faults/interruptions | Passed |
| Voltage drop measurement before and after each axis | Passed |
| Simulated service life test through increased levels of noise-like vibration | Test passed according to Section 9 of the standard |
| Extended test scope: Monitoring for contact faults/interruptions | Passed<br>Passed |
| Extended test scope: Voltage drop measurement before and after each axis | Passed<br>Passed |
| Shock test | Test passed according to Section 10 of the standard |
| Shock form | Half sine |
| Shock duration | 30 ms |
| Number of shocks per axis | 3 pos. und 3 neg. |
| Vibration and shock stress for rolling stock equipment | Passed |

## Commercial data

| | |
|---|---|
| PU (SPU) | 200 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4055143586580 |
| 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 8.0 | EC002643 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CB<br>DEKRA Certification B.V. | IEC 60947-7-4 | NL-103311 |
| CSA<br>CSA Group | C22.2 | 70146882 |
| UL<br>Underwriters Laboratories Inc. | UL 1059 | UL-US-L45172-6187172-92117102-1 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| Railway<br>WAGO GmbH & Co. KG | - | Z00004412.000 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2606-3101

### Documentation

**Additional Information**

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

## CAD/CAE-Data

### CAD data

2D/3D Models
2606-3101

### CAE data

ZUKEN Portal
2606-3101

### PCB Design

Symbol and Footprint
via SamacSys
2606-3101

Symbol and Footprint
via Ultra Librarian
2606-3101

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 Ferrule



Item No.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-264
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-266
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-267
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

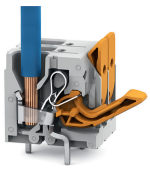


Item No.: 216-208
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

Item No.: 216-108
Ferrule; Sleeve for 6 mm² / AWG 10; uninsulated; electro-tin plated; silver-colored

## Installation Notes

### Conductor termination



Insert fine-stranded conductors – and remove all conductors – via operating tool.

### Conductor termination

Insert solid conductors via push-in termination.