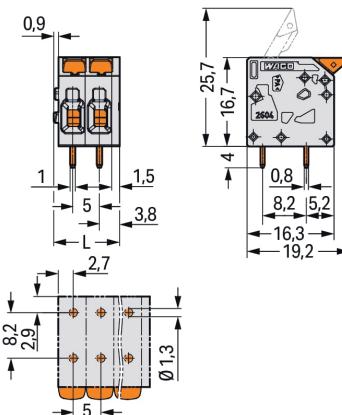




Color: ■ gray

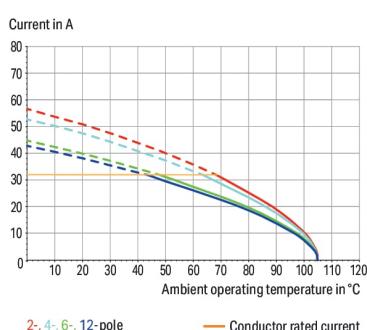
Similar to illustration



Dimensions in mm

L = (pole no. - 1) x pin spacing + 7.4 mm

Current-Carrying Capacity Curve
Pin spacing: 5 mm / Conductor cross-section: 4 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1



PCB terminal block, 2604 Series, lever

Our PCB terminal block (item number 2604-1102) makes connecting wires quick and easy. It is a universal connector that can be used almost anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. This PCB terminal block has a rated voltage of 400 V and can handle currents up to 32 A, making it ideal for high-load applications. Conductors can only be connected to this PCB terminal block if their strip length is between 9 mm and 11 mm. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product outperforms the competition. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The dimensions are 12.4 x 20.7 x 19.2 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 4 mm². Up to two potentials / two poles can be connected to this terminal strip using two clamping points on one level. 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). Tin is used for coating the contact surfaces. A lever is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted into the board at a 0° angle.. The solder pins measure 0.8 x 1 mm in cross-section and 4 mm in length and are organized over the entire terminal strip (in-line). There are two solder pins per potential.

Notes

Variants:

Other pole numbers

Direct marking

Other colors

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 | | | Approvals per UL 1059 | | |
|----------------------------|-------|-------|-----------------------|---------------|---------------|
| Overvoltage category | III | III | II | Use group | B C D |
| Pollution degree | 3 | 2 | 2 | Rated voltage | 300 V - 300 V |
| Nominal voltage | 320 V | 400 V | 630 V | Rated current | 20 A - 10 A |
| Rated surge voltage | 4 kV | 4 kV | 4 kV | | |
| Rated current | 32 A | 32 A | 32 A | | |

Approvals per CSA

| Use group | B | C | D |
|---------------|-------|---|-------|
| Rated voltage | 300 V | - | 300 V |
| Rated current | 20 A | - | 5 A |

Connection data

| | | | |
|----------------------------|---|---|------------------------------------|
| Clamping units | 2 | Connection 1 | |
| Total number of potentials | 2 | Connection technology | Push-in CAGE CLAMP® |
| Number of connection types | 1 | Actuation type | Lever |
| Number of levels | 1 | Solid conductor | 0.2 ... 4 mm² / 24 ... 12 AWG |
| | | Fine-stranded conductor | 0.2 ... 4 mm² / 24 ... 12 AWG |
| | | Fine-stranded conductor; with insulated ferrule | 0.25 ... 2.5 mm² |
| | | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm² |
| | | Fine-stranded conductor; with twin ferrule | 0.25 ... 1.5 mm² |
| | | Strip length | 9 ... 11 mm / 0.35 ... 0.43 inches |
| | | Conductor connection direction to PCB | 0 ° |
| | | Pole number | 2 |

Physical data

| | |
|--------------------------------------|------------------------|
| Pin spacing | 5 mm / 0.197 inches |
| Width | 12.4 mm / 0.488 inches |
| Height | 20.7 mm / 0.815 inches |
| Height from the surface | 16.7 mm / 0.657 inches |
| Depth | 19.2 mm / 0.756 inches |
| Solder pin length | 4 mm |
| Solder pin dimensions | 0.8 x 1 mm |
| Drilled hole diameter with tolerance | 1.3 (±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 | 0.078 MJ |
| Actuator color | orange |
| Weight | 3.3 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 | DIN EN 50155 (VDE 0115-200):2022-06 |
| Railway applications – Rolling stock – Electronic equipment | |
| Test procedure | DIN EN 61373 (VDE 0115-0106):2011-04 |
| Railway applications – Rolling stock equipment – Shock and vibration tests | |
| 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 | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| Acceleration | 0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes) |
| Test duration per axis | 10 min. 5 h |
| Test directions | X, Y and Z axes X, Y and Z axes 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 Passed |
| Extended test scope: Voltage drop measurement before and after each axis | Passed 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

| | |
|-----------------------|---------------|
| eCl@ss 10.0 | 27-44-04-01 |
| eCl@ss 9.0 | 27-44-04-01 |
| ETIM 9.0 | EC002643 |
| ETIM 8.0 | EC002643 |
| PU (SPU) | 170 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4066966435603 |
| Customs tariff number | 85369010000 |

Environmental Product Compliance

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

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---------------------------------------|---------------|------------------|
| CB DEKRA Certification B.V. | IEC 60947-7-4 | NL-61583 |
| KEMA/KEUR DEKRA Certification B.V. | EN 60947-7-4 | 71-100535 |
| UL Underwriters Laboratories Inc. | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations



| Approval | Standard | Certificate Name |
|-------------------------------|----------|------------------|
| Railway WAGO GmbH & Co. KG | - | Z00004411.000 |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2604-1102



Documentation

Additional Information

| | | | |
|-------------------|------------|-------------------|--|
| Technical Section | 03.04.2019 | pdf 2027.26 KB | |
|-------------------|------------|-------------------|--|

CAD/CAE-Data

CAD data

2D/3D Models
2604-1102

CAE data

ZUKEN Portal
2604-1102

PCB Design

Symbol and Footprint
via SamacSys
2604-1102Symbol and Footprint
via Ultra Librarian
2604-1102

1 Compatible Products

1.1 Optional Accessories

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.

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

Current addresses can be found at: www.wago.com