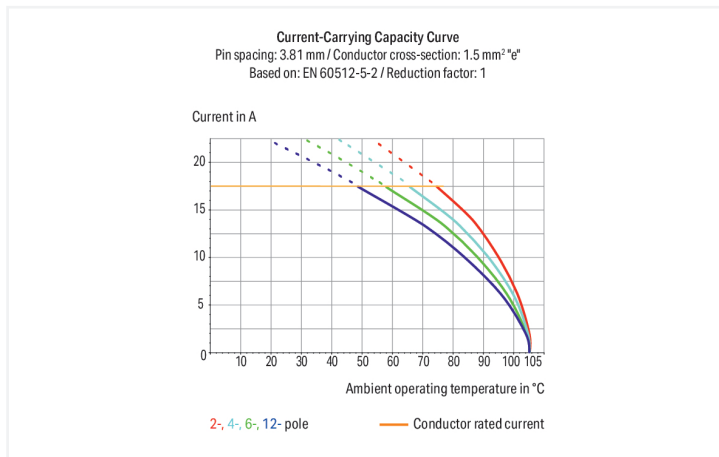
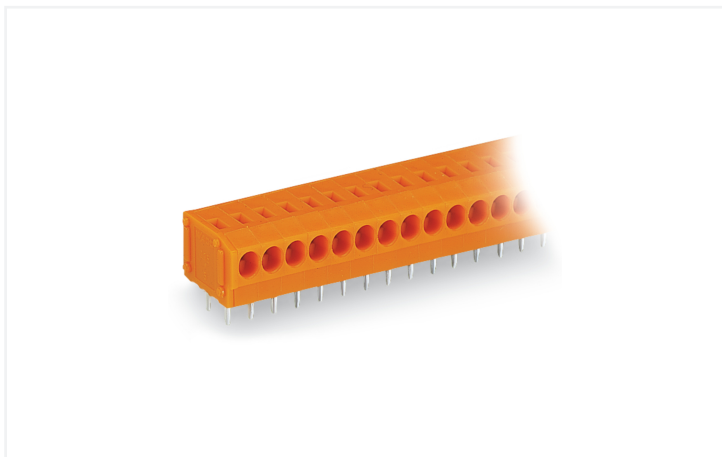


# Data Sheet | Item Number: 235-104/330-000

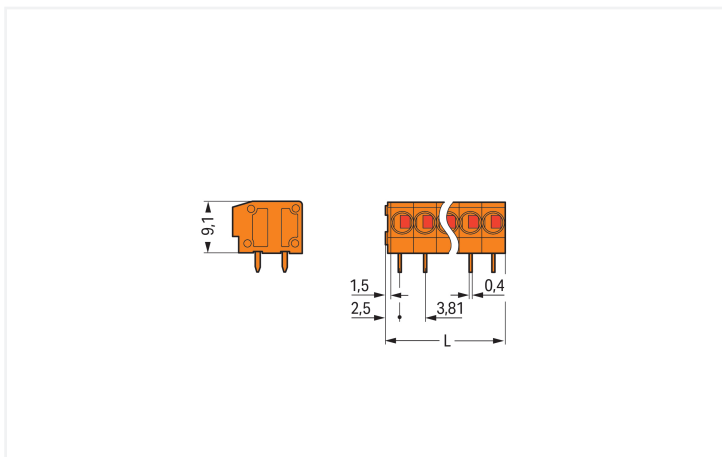
PCB terminal block; 1.5 mm<sup>2</sup>; Pin spacing 3.81 mm; 4-pole; PUSH WIRE®; orange

<https://www.wago.com/235-104/330-000>



Color: ■ orange

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$

PCB terminal block, 235 Series, solder pin dimensions 0.8 x 0.4 mm

This PCB terminal block (item number 235-104/330-000) is designed to connect conductors quickly and easily. You can rely on tried and tested safety with these PCB terminal blocks, perfect for a wide variety of applications when designing your devices. Ensure that the strip lengths are between 9 and 10 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with PUSH WIRE®, this product outperforms the competition. Our PUSH WIRE® connection is the simple and reliable method for connecting solid conductors. The item's dimensions are (16.74 x 12.8 x 12.5) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal for conductor cross sections ranging from 0.5 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

Tin is used for coating the contact surfaces. This PCB terminal block is operated with an operating tool. The PCB terminal block is designed for THT soldering. Insert the conductor into the board at an angle of 0°.

## Notes

|           |  |
|-----------|--|
| Variants: | Other pole numbers<br>Other colors<br>Mixed-color PCB connector strips<br>Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |
|-----------|--|

## 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                 | 200 V          | 320 V  | 500 V  | Rated current | 10 A    | - | 10 A  |
| Rated impulse withstand voltage | 4 kV           | 4 kV   | 4 kV   |               |         |   |       |
| Rated current                   | 17.5 A         | 17.5 A | 17.5 A |               |         |   |       |

## Ratings per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |

## Connection Data

|                            |   |   |   |
|----------------------------|---|---|---|
| Clamping units             | 4 | <b>Connection 1</b>                               |   |
| Total number of potentials | 4 | Connection technology                             | PUSH WIRE®                                  |
| Number of connection types | 1 | Actuation type                                    | Operating tool                              |
| Number of levels           | 1 | Solid conductor                                   | 0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm <sup>2</sup>               |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.75 mm <sup>2</sup>               |
|                            |   | Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches          |
|                            |   | Conductor connection direction to PCB             | 0°  |
|                            |   | Pole number                                       | 4   |

## Physical data

|                                      |                         |
|--------------------------------------|-------------------------|
| Pin spacing                          | 3.81 mm / 0.15 inches   |
| Width                                | 16.74 mm / 0.659 inches |
| Height                               | 12.8 mm / 0.504 inches  |
| Height from the surface              | 9.2 mm / 0.362 inches   |
| Depth                                | 12.5 mm / 0.492 inches  |
| Solder pin length                    | 3.6 mm                  |
| Solder pin dimensions                | 0.8 x 0.4 mm            |
| Drilled hole diameter with tolerance | 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

|                                    |  |
|------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | orange   |
| 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 <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.035 MJ   |
| Weight                             | 2.2 g  |

### Environmental requirements

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

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 280 (70) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | CN                             |
| GTIN                  | 4044918828529                  |
| 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 10.0   | EC002643             |
| ECCN        | NO US CLASSIFICATION |

### Environmental Product Compliance

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

### Approvals / Certificates

#### General approvals



#### General approvals

|                          |          |            |
|--------------------------|----------|------------|
| KEMA/KEUR                | EN 60947 | 2160584.38 |
| DEKRA Certification B.V. |          |            |

| Approval                        | Standard     | Certificate Name |
|---------------------------------|--------------|------------------|
| CCA<br>DEKRA Certification B.V. | EN 60947     | NTR NL-7144      |
| CCA<br>DEKRA Certification B.V. | EN 60998     | NTR NL 6919      |
| CCA<br>DEKRA Certification B.V. | EN 60947-7-4 | NTR NL-7774      |

Declarations of conformity and manufacturer's declarations

| Approval   | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications



| Approval                           | Standard | Certificate Name |
|------------------------------------|----------|------------------|
| ABS<br>American Bureau of Shipping | -        | 24-0095975-PDA   |
| DNV<br>DNV GL SE                   | -        | TAE000016Z       |

Downloads

Environmental Product Compliance

| Compliance Search                                   |                   |
|---|-------------------|
| Environmental Product Compliance<br>235-104/330-000 | <a href="#">↓</a> |

Documentation

| Additional Information |            |                   |                   |
|------------------------|------------|-------------------|-------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | <a href="#">↓</a> |

CAD/CAE-Data

| CAD data                        |                   |
|---------------------------------|-------------------|
| 2D/3D Models<br>235-104/330-000 | <a href="#">↓</a> |

| CAE data                             |                   |
|--------------------------------------|-------------------|
| EPLAN Data Portal<br>235-104/330-000 | <a href="#">↓</a> |
| ZUKEN Portal<br>235-104/330-000      | <a href="#">↓</a> |

PCB Design

|  |                   |
|--|-------------------|
| Symbol and Footprint<br>via SamacSys<br>235-104/330-000        | <a href="#">↓</a> |
| Symbol and Footprint<br>via Ultra Librarian<br>235-104/330-000 | <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 Ferrule



**Item No.: 216-241**

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

**Item No.: 216-141**

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

**Item No.: 216-242**

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

**Item No.: 216-262**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-142**

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

#### 1.1.2 Marking

##### 1.1.2.1 Marking strip



**Item No.: 210-332/381-202**

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

**Item No.: 210-332/381-205**

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

**Item No.: 210-332/381-204**

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

**Item No.: 210-332/381-206**

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

#### 1.1.3 Tool

##### 1.1.3.1 Operating tool



**Item No.: 210-720**

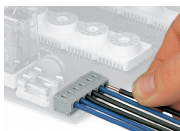
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

**Item No.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

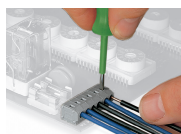
## Installation Notes

### Conductor termination



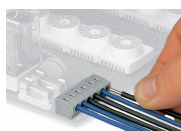
Inserting a solid conductor via push-in termination.

### Conductor removal



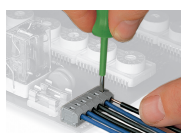
Removing a conductor via screwdriver (2.5 mm blade width).

### Conductor termination



Inserting a solid conductor via push-in termination.

### Conductor removal



Removing a conductor via screwdriver (2.5 mm blade width).