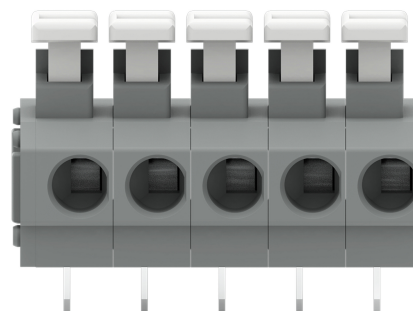
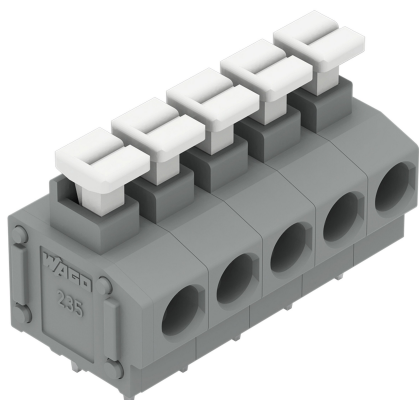


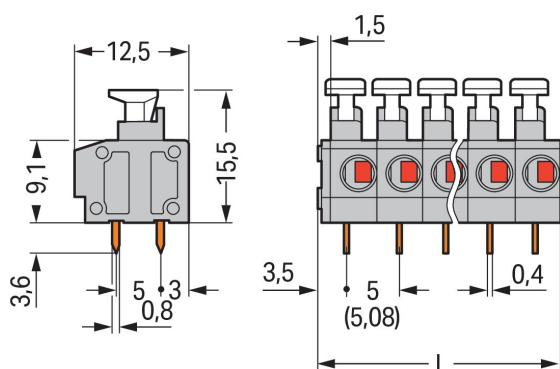
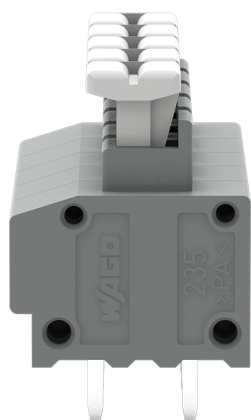
## Data Sheet | Item Number: 235-405/331-000

PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 5/5.08 mm; 5-pole; Push-in  
CAGE CLAMP®; 1,50 mm<sup>2</sup>; gray

<https://www.wago.com/235-405/331-000>



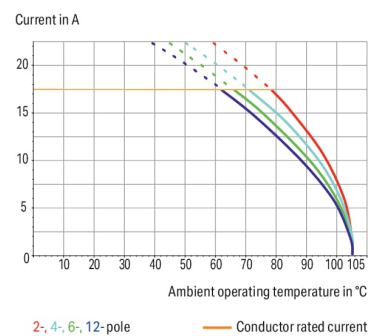
Color: ■ gray



Dimensions in mm

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

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



- PCB terminal strips with push-buttons
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Set to metric or inch pin spacing by compressing terminal strips or pulling them apart



| Notes     |                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .<br>Other pole numbers<br>Other colors<br>Terminal strips with 7.5/7.62 mm and 10/10.16 mm pin spacing<br>Mixed-color PCB connector strips<br>Direct marking |

| Electrical data      |  |                |        |
|----------------------|--|----------------|--------|
| Ratings per          |  | IEC/EN 60664-1 |        |
| Overvoltage category |  | III            | II     |
| Pollution degree     |  | 3              | 2      |
| Nominal voltage      |  | 250 V          | 630 V  |
| Rated surge voltage  |  | 4 kV           | 4 kV   |
| Rated current        |  | 17.5 A         | 17.5 A |

| Approvals per |  | UL 1059 |       |
|---------------|--|---------|-------|
| Use group     |  | B       | D     |
| Rated voltage |  | 300 V   | 300 V |
| Rated current |  | 10 A    | 10 A  |

| Approvals per |  | CSA   |   |
|---------------|--|-------|---|
| Use group     |  | B     | D |
| Rated voltage |  | 300 V | - |
| Rated current |  | 15 A  | - |

| Connection data            |   |
|----------------------------|---|
| Clamping units             | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

| Connection 1                                      |                                                                                                                |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                                                                                            |
| Actuation type                                    | Push-button                                                                                                    |
| Solid conductor                                   | 0.2 ... 1.5 mm² / 20 ... 14 AWG                                                                                |
| Fine-stranded conductor                           | 0.75 ... 1.5 mm² / 20 ... 14 AWG                                                                               |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1 mm²                                                                                                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1 mm²                                                                                                 |
| Note (conductor cross-section)                    | Fine-stranded conductor 0.25 ... 0.5 mm² (I max. 2 A)<br>Fine-stranded conductor 0.75 ... 1.5 mm² (I max. 6 A) |
| Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches                                                                             |
| Conductor connection direction to PCB             | 0 °                                                                                                            |
| Pole number                                       | 5                                                                                                              |

| Physical data                        |                              |
|--------------------------------------|------------------------------|
| Pin spacing                          | 5/5.08 mm / 0.197/0.2 inches |
| Width                                | 26.5 mm / 1.043 inches       |
| Height                               | 19.1 mm / 0.752 inches       |
| Height from the surface              | 15.5 mm / 0.61 inches        |
| Depth                                | 12.5 mm / 0.492 inches       |
| Solder pin length                    | 3.6 mm                       |
| Solder pin dimensions                | 0.4 x 0.8 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                              | 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 <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.074 MJ                                                                 |
| Weight                             | 3.7 g                                                                    |

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

| Commercial data       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| 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)              | 180 (45) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | CN                             |
| GTIN                  | 4055143258753                  |
| Customs tariff number | 85369010000                    |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |        |   |        |                               |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------|---|--------|-------------------------------|--|--|
|     | <table><tr><td>UL</td><td>-</td><td>E45172</td></tr><tr><td>UL International Germany GmbH</td><td></td><td></td></tr></table> | UL     | - | E45172 | UL International Germany GmbH |  |  |
| UL                                                                                                                                                                                                                                                                                                                                             | -                                                                                                                             | E45172 |   |        |                               |  |  |
| UL International Germany GmbH                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |        |   |        |                               |  |  |

| 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      |
| CSA<br>DEKRA Certification B.V.       | C22.2        | 1673956          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947     | 2160584.38       |



Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



| Approval                                | Standard | Certificate Name |
|-----------------------------------------|----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping | -        | 19-HG1869876-PDA |
| DNV<br>DNV GL SE                        | -        | TAE000016Z       |

Downloads

Environmental Product Compliance

| Compliance Search                                      |
|--------------------------------------------------------|
| Environmental Product<br>Compliance<br>235-405/331-000 |



Documentation

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



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>235-405/331-000 |



| CAE data                             |
|--------------------------------------|
| EPLAN Data Portal<br>235-405/331-000 |
| ZUKEN Portal<br>235-405/331-000      |



| PCB Design                                                     |
|----------------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys<br>235-405/331-000        |
| Symbol and Footprint<br>via Ultra Librarian<br>235-405/331-000 |





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 mm² / 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 mm² / 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 mm² / 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 mm² / 18 AWG; 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 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-243**  
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.: 216-263**  
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.: 216-143**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; 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.: 210-332/500-202**  
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.: 210-332/508-202**  
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.: 210-332/500-205**  
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.: 210-332/508-205**  
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.: 210-332/500-204**  
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.: 210-332/508-204**  
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.: 210-332/500-206**  
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



**Item No.: 210-332/508-206**  
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



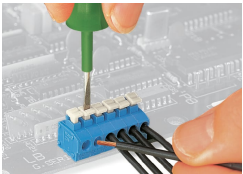
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



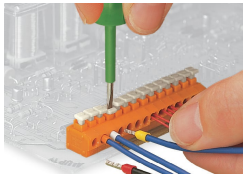
**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

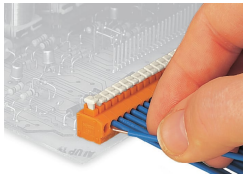
Conductor termination



Inserting/removing fine-stranded conductors via push-button.

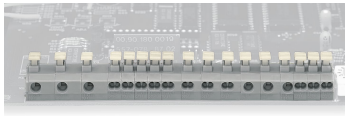
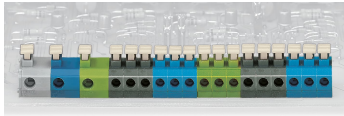


Insert/remove fine-stranded conductors with ferrules via push-button.



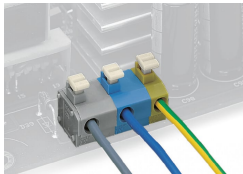
Insert solid conductors via push-in termination.

Installation



Combining 1- and 2-conductor terminal blocks with different pin spacing.

Testing



Application example: field-wiring terminal strip