

## Data Sheet | Item Number: 255-404/333-000

PCB terminal block; finger-operated levers; 2.5 mm<sup>2</sup>; Pin spacing 5/5.08 mm; 4-pole;  
CAGE CLAMP®; commoning option; gray

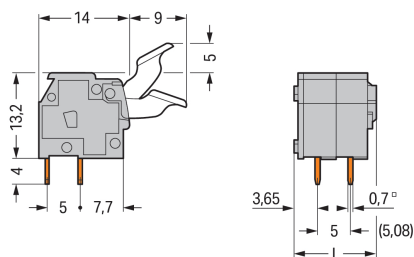
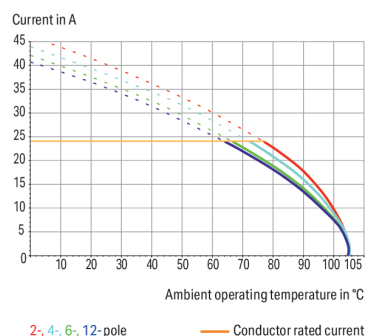
<https://www.wago.com/255-404/333-000>



Color: ■ gray

Similar to illustration

Current-Carrying Capacity Curve  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



Dimensions in mm

L = (pole no. x pin spacing) + 2.9 mm

PCB terminal block, 255 Series, with 5 mm pin spacing

Quick and easy connections are guaranteed with this PCB terminal block (item number 255-404/333-000). You can rely on trusted safety with these PCB terminal blocks, perfect for a wide variety of applications when designing your devices. Strip lengths must be between 5 and 6 mm when connecting conductors to this PCB terminal block. This product incorporates one conductor terminal and utilizes CAGE CLAMP®. Our renowned universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The item's dimensions are (22.9 x 22.2 x 23) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

The contact surface is coated with tin. Finger-operated 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 90° angle..



| Notes     |                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole numbers<br>Versions for Ex e II and Ex i<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 |       |
| Overvoltage category            | III   | III            | II    |
| Pollution degree                | 3     | 2              | 2     |
| Nominal voltage                 | 320 V | 320 V          | 630 V |
| Rated impulse withstand voltage | 4 kV  | 4 kV           | 4 kV  |
| Rated current                   | 24 A  | 24 A           | 24 A  |

| Approvals per |       | UL 1059 |       |
|---------------|-------|---------|-------|
| Use group     | B     | C       | D     |
| Rated voltage | 300 V | -       | 300 V |
| Rated current | 15 A  | -       | 10 A  |

| Approvals per |       | CSA |       |
|---------------|-------|-----|-------|
| Use group     | B     | C   | D     |
| Rated voltage | 300 V | -   | 300 V |
| Rated current | 15 A  | -   | 10 A  |

| Connection Data            |   |
|----------------------------|---|
| Clamping units             | 4 |
| Total number of potentials | 4 |
| Number of connection types | 1 |
| Number of levels           | 1 |

| Connection 1                                      |                                  |
|---------------------------------------------------|----------------------------------|
| Connection technology                             | CAGE CLAMP®                      |
| Actuation type                                    | Finger-operated lever            |
| Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                 |
| Note (conductor cross-section)                    | 12 AWG: THHN, THWN               |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inches |
| Conductor connection direction to PCB             | 90 °                             |
| Pole number                                       | 4                                |

| Physical data           |                              |
|-------------------------|------------------------------|
| Pin spacing             | 5/5.08 mm / 0.197/0.2 inches |
| Width                   | 22.9 mm / 0.902 inches       |
| Height                  | 22.2 mm / 0.874 inches       |
| Height from the surface | 18.2 mm / 0.559 inches       |
| Depth                   | 23 mm / 0.906 inches         |
| Solder pin length       | 4 mm                         |
| Solder pin dimensions   | 0.7 x 0.7 mm                 |
| !                       | 1.1 (+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                          |  | 0.122 MJ                                                                 |
| Weight                             |  | 5.1 g                                                                    |

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

| Commercial data       |  |                                |
|-----------------------|--|--------------------------------|
| Product Group         |  | 4 (Printed Circuit Connectors) |
| PU (SPU)              |  | 200 (50) pcs                   |
| Packaging type        |  | Box                            |
| Country of origin     |  | CH                             |
| GTIN                  |  | 4044918659178                  |
| 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



| Approval                             | Standard | Certificate Name |
|--------------------------------------|----------|------------------|
| UR<br>Underwriters Laboratories Inc. | UL 1059  | E45172           |



|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Downloads                                                                                                                                                                        |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Environmental Product Compliance                                                                                                                                                 |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Compliance Search                                                                                                                                                                |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Environmental Product Compliance<br>255-404/333-000                                                                                                                              |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Documentation                                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Additional Information                                                                                                                                                           |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Technical Section                                                                                                                                                                | 03.04.2019                                                                                                                                                                                         | pdf<br>2027.26 KB                                                                                                    |                                                                                                                                                                                               |  |
| Gebrückte Klemmen-<br>leisten für Leiterplatten                                                                                                                                  |                                                                                                                                                                                                    | pdf<br>303.71 KB                                                                                                     |                                                                                                                                                                                               |  |
| CAD/CAE-Data                                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| CAD data                                                                                                                                                                         |                                                                                                                                                                                                    | CAE data                                                                                                             |                                                                                                                                                                                               |  |
| 2D/3D Models<br>255-404/333-000                                                                                                                                                  |                                                                                                                                                                                                    | ZUKEN Portal<br>255-404/333-000                                                                                      |                                                                                                                                                                                               |  |
|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| PCB Design                                                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Symbol and Footprint<br>via SamacSys<br>255-404/333-000                                                                                                                          |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Symbol and Footprint<br>via Ultra Librarian<br>255-404/333-000                                                                                                                   |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 1 Compatible Products                                                                                                                                                            |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 1.1 Optional Accessories                                                                                                                                                         |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 1.1.1 Ferrule                                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 1.1.1.1 Ferrule                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| <a href="#">Item No.: 216-301</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow                                                           | <a href="#">Item No.: 216-321</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow                                                                             | <a href="#">Item No.: 216-151</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24;<br>uninsulated; electro-tin plated       | <a href="#">Item No.: 216-131</a><br>Ferrule; Sleeve for 0.25 mm² / AWG 24;<br>uninsulated; electro-tin plated; silver-co-<br>lored                                                           |  |
|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| <a href="#">Item No.: 216-302</a><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise                                                  | <a href="#">Item No.: 216-322</a><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise                                                                    | <a href="#">Item No.: 216-132</a><br>Ferrule; Sleeve for 0.34 mm² / AWG 24;<br>uninsulated; electro-tin plated       | <a href="#">Item No.: 216-152</a><br>Ferrule; Sleeve for 0.34 mm² / AWG 24;<br>uninsulated; electro-tin plated                                                                                |  |
|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| <a href="#">Item No.: 216-201</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; acc. to DIN 46228, Part 4/09.90;<br>white | <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 | <a href="#">Item No.: 216-221</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; white | <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 |  |



1.1.1.1 Ferrule

|                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored                                                               | <br><b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored                                                         | <br><b>Item No.: 216-242</b><br>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               | <br><b>Item No.: 216-262</b><br>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  |
| <br><b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                           | <br><b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                     | <br><b>Item No.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                  | <br><b>Item No.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored                                                             |
| <br><b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored                                                              | <br><b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | <br><b>Item No.: 216-263</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red                   | <br><b>Item No.: 216-203</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                              |
| <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                               | <br><b>Item No.: 216-103</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated                                                                           | <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                     | <br><b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; silver-colored                                                                |
| <br><b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                          | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                    | <br><b>Item No.: 216-244</b><br>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              | <br><b>Item No.: 216-264</b><br>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 |
| <br><b>Item No.: 216-284</b><br>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 | <br><b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated                                                                       | <br><b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <br><b>Item No.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored                                                            |

1.1.2 Marking

1.1.2.1 Marking strip

|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 210-833</b><br>Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white                                                                                         | <br><b>Item No.: 210-332/500-202</b><br>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  | <br><b>Item No.: 210-332/508-202</b><br>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  | <br><b>Item No.: 210-332/500-205</b><br>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   |
| <br><b>Item No.: 210-332/508-205</b><br>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   | <br><b>Item No.: 210-332/500-204</b><br>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 | <br><b>Item No.: 210-332/508-204</b><br>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 | <br><b>Item No.: 210-332/500-206</b><br>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 |
| <br><b>Item No.: 210-332/508-206</b><br>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 Test and measurement

1.1.3.1 Testing accessories



Item No.: 249-110

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5 mm / 0.197 in; gray

Item No.: 249-111

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5.08 mm / 0.2 in; orange

Installation Notes

Conductor termination



Inserting/removing a conductor – 256 Series.



Inserting/removing a conductor (255 Series)



Inserting/removing a conductor via finger-operated lever – 255 Series.



Inserting/removing a conductor via finger-operated lever – 256 Series.

Installation



Possible conductor arrangement with terminal strips staggered (for 256 Series only).

Marking



Formation of groups using housings of different colors

Testing



Testing with test probes.



Testing with test plug modules.

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

Current addresses can be found at: [www.wago.com](https://www.wago.com)