

## Data Sheet | Item Number: 256-516/334-000

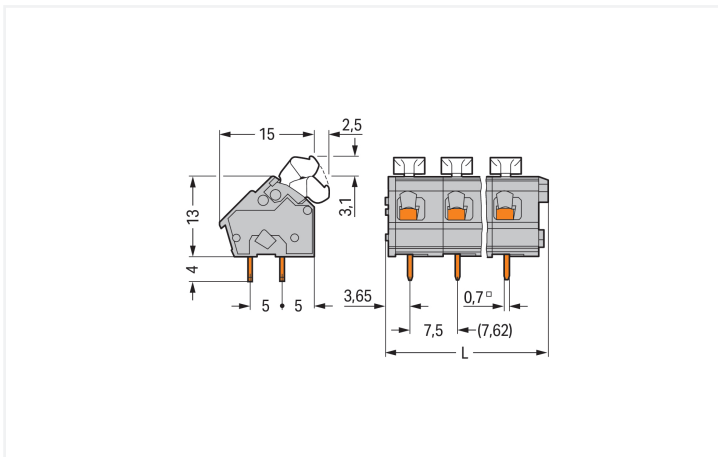
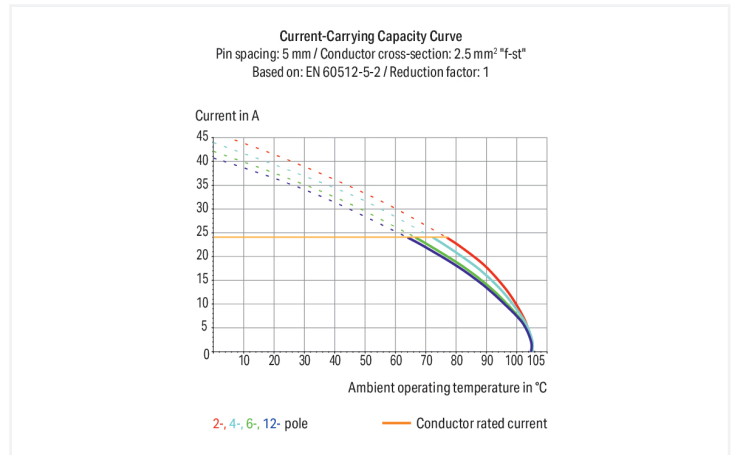
PCB terminal block; push-button; 2.5 mm<sup>2</sup>; Pin spacing 7.5/7.62 mm; 16-pole; CAGE CLAMP®; commoning option; gray

<https://www.wago.com/256-516/334-000>



Color: ■ gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 2.9 \text{ mm}$

PCB terminal block, 256 Series, with 7.5 mm pin spacing

Easily, quickly and safely connect conductors with this PCB terminal block (item number 256-516/334-000). 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. Strip lengths must be between 5 and 6 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. Dimensions: (122.9 x 20.1 x 17.2) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

Tin is used for coating the contact surfaces. Push-button (angled) is used to operate this PCB terminal block. THT is used to solder the PCB terminal block. The conductor is designed to be inserted into the board at an angle of 45°.



| 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             | 16 |
| Total number of potentials | 16 |
| Number of connection types | 1  |
| Number of levels           | 1  |

| Connection 1                                      |                                  |
|---------------------------------------------------|----------------------------------|
| Connection technology                             | CAGE CLAMP®                      |
| Actuation type                                    | Push-button (angled)             |
| 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             | 45 °                             |
| Pole number                                       | 16                               |

| Physical data           |                                |
|-------------------------|--------------------------------|
| Pin spacing             | 7.5/7.62 mm / 0.295/0.3 inches |
| Width                   | 122.9 mm / 4.839 inches        |
| Height                  | 20.1 mm / 0.791 inches         |
| Height from the surface | 16.1 mm / 0.634 inches         |
| Depth                   | 17.2 mm / 0.677 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                          | 0.42 MJ                                                                  |
| Weight                             | 19 g                                                                     |

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

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 40 (10) pcs   |
| Packaging type        | Box           |
| Country of origin     | CH            |
| GTIN                  | 4055143385480 |
| 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                                                                                                                                                                                                                                          |               |                  | Approvals for marine applications                                                                                                                                        |          |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|
|    |               |                  |   |          |                   |
| Approval                                                                                                                                                                                                                                                   | Standard      | Certificate Name | Approval                                                                                                                                                                 | Standard | Certificate Name  |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                            | IEC 60947-7-4 | 71-113042        | DNV<br>DNV GL SE                                                                                                                                                         | -        | TAE000016Z        |
| CSA<br>DEKRA Certification B.V.                                                                                                                                                                                                                            | C22.2 No. 158 | 70049157         | PRS<br>Polski Rejestr Statków                                                                                                                                            | -        | TE/1095/880590/23 |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                       | UL 1059       | 20190731-E45172  |                                                                                                                                                                          |          |                   |



|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Downloads                                                                                                                                                                        |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Environmental Product Compliance                                                                                                                                                 |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Compliance Search                                                                                                                                                                |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Environmental Product Compliance<br>256-516/334-000                                                                                                                              |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 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>256-516/334-000                                                                                                                                                  |                                                                                                                                                                                                    | ZUKEN Portal<br>256-516/334-000                                                                                      |                                                                                                                                                                                               |  |
|                                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| PCB Design                                                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Symbol and Footprint<br>via SamacSys<br>256-516/334-000                                                                                                                          |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| Symbol and Footprint<br>via Ultra Librarian<br>256-516/334-000                                                                                                                   |                                                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                               |  |
| 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.: 210-332/750-020</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <br><b>Item No.: 210-332/762-020</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); 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.: 249-112

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 7.5 mm / 0.295 in; gray



Item No.: 249-113

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 7.62 mm / 0.3 in; orange

1.1.4 Tool

1.1.4.1 Operating tool



Item No.: 210-658

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



Item No.: 210-720

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

Installation Notes

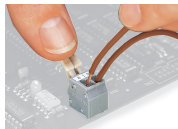
Conductor termination



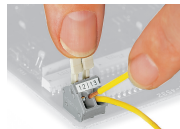
Inserting/removing a conductor – 256 Series.



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.