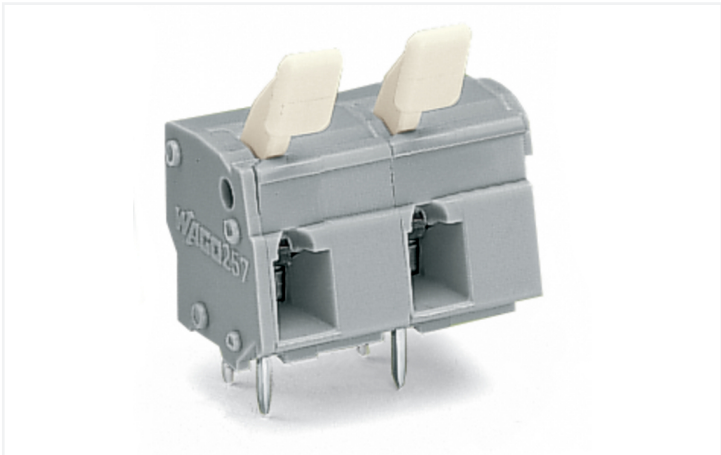
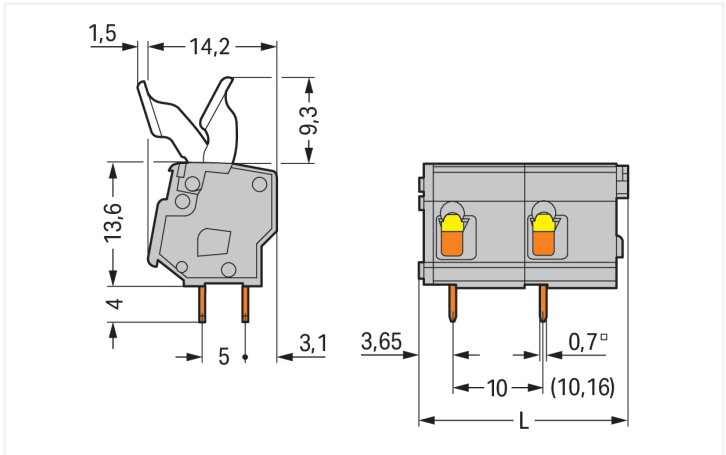
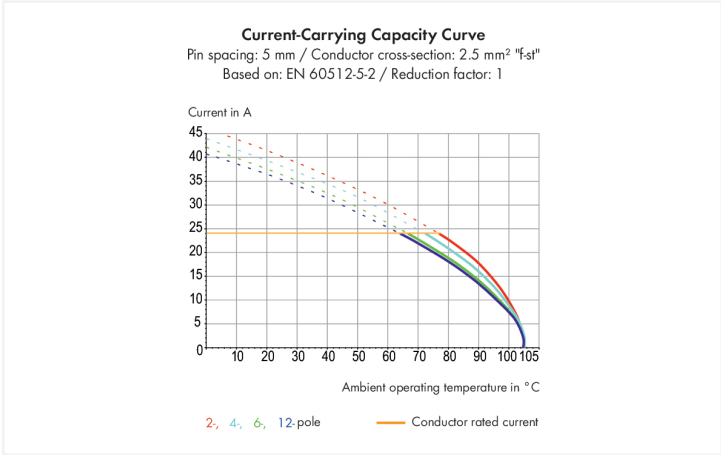




Color: ■ gray



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



PCB terminal block, 257 Series, solder pin dimensions 0.7 x 0.7 mm

Connect conductors quickly and securely with this PCB terminal block (item number 257-602/333-000). You can count on proven safety with these PCB terminal blocks, perfect for a host of applications when designing your devices. Rated current and voltage are important parameters when selecting a PCB terminal block, as they indicate how the product can be used. This product has a rated voltage of 1000 V and a rated current of 24 A, making it suitable for high-load applications. Ensure that the strip lengths are between 5 mm and 6 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® leads the way when it comes to connection technology and electrical interconnections. The item's dimensions are 22.9 x 26.9 x 15.7 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It comes with one level and two clamping points that you can use to connect two potentials / 2 poles. The clamping spring is made of chrome-nickel spring steel (CrNi), the gray housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). 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 an angle of 0°.. The solder pins, which are 0.7 x 0.7 mm in cross-section and 4 mm long, are set out over the entire terminal strip (in-line). There are two solder pins per potential.

| 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 |       |        |        | Approvals per UL 1059 |       |   |       |
|----------------------------|-------|--------|--------|-----------------------|-------|---|-------|
| Overvoltage category       | III   | III    | II     | Use group             | B     | C | D     |
| Pollution degree           | 3     | 2      | 2      | Rated voltage         | 300 V | - | 300 V |
| Nominal voltage            | 630 V | 1000 V | 1000 V | Rated current         | 15 A  | - | 10 A  |
| Rated surge voltage        | 8 kV  | 8 kV   | 8 kV   |                       |       |   |       |
| Rated current              | 24 A  | 24 A   | 24 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             | 2 | Connection 1                                      |                                  |
| Total number of potentials | 2 | Connection technology                             | CAGE CLAMP®                      |
| Number of connection types | 1 | Actuation type                                    | Finger-operated lever            |
| Number of levels           | 1 | 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             | 0°                               |
|                            |   | Pole number                                       | 2                                |

Physical data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Pin spacing                          | 10/10.16 mm / 0.394/0.4 inches |
| Width                                | 22.9 mm / 0.902 inches         |
| Height                               | 26.9 mm / 1.059 inches         |
| Height from the surface              | 22.9 mm / 0.902 inches         |
| Depth                                | 15.7 mm / 0.618 inches         |
| Solder pin length                    | 4 mm                           |
| Solder pin dimensions                | 0.7 x 0.7 mm                   |
| Drilled hole diameter with tolerance | 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                          |  | 0.095 MJ                                                                 |
| Weight                             |  | 3.5 g                                                                    |

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

| Commercial data       |  |                                |
|-----------------------|--|--------------------------------|
| Product Group         |  | 4 (Printed Circuit Connectors) |
| PU (SPU)              |  | 220 (55) pcs                   |
| Packaging type        |  | Box                            |
| Country of origin     |  | PL                             |
| GTIN                  |  | 4044918677349                  |
| 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 8.0               |  | EC002643             |
| ECCN                   |  | NO US CLASSIFICATION |

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

| Downloads                                           |  |  |
|-----------------------------------------------------|--|--|
| Environmental Product Compliance                    |  |  |
| Compliance Search                                   |  |  |
| Environmental Product Compliance<br>257-602/333-000 |  |  |



| 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>257-602/333-000                                                                                                                                         |                                                                                                                                                                                           | EPLAN Data Portal<br>257-602/333-000                                                                                                                                                      |                                                                                                                                                                                           |
|                                                                                                                                                                         |                                                                                                                                                                                           | ZUKEN Portal<br>257-602/333-000                                                                                                                                                           |                                                                                                                                                                                           |
| PCB Design                                                                                                                                                              |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Symbol and Footprint<br>via SamacSys<br>257-602/333-000                                                                                                                 |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Symbol and Footprint<br>via Ultra Librarian<br>257-602/333-000                                                                                                          |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| 1 Compatible Products                                                                                                                                                   |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| 1.1 Optional Accessories                                                                                                                                                |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| 1.1.1 Ferrule                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| 1.1.1.1 Ferrule                                                                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
|                                                                                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| <b>Item No.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow                                                           | <b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; in-<br>sulated; electro-tin plated; yellow                                                                             | <b>Item No.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24;<br>uninsulated; electro-tin plated                                                                                     | <b>Item No.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24;<br>uninsulated; electro-tin plated; silver-co-<br>lored                                                                |
|                                                                                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| <b>Item No.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise                                                  | <b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-<br>sulated; electro-tin plated; light turquoise                                                                    | <b>Item No.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24;<br>uninsulated; electro-tin plated                                                                                     | <b>Item No.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24;<br>uninsulated; electro-tin plated                                                                                     |
|                                                                                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| <b>Item No.: 216-201</b><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 | <b>Item No.: 216-241</b><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 | <b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-<br>sulated; electro-tin plated; white                                                                               | <b>Item No.: 216-141</b><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      |
|                                                                                                                                                                         |                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| <b>Item No.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-<br>insulated; electro-tin plated; silver-co-<br>lored                                             | <b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-<br>insulated; electro-tin plated; silver-co-<br>lored                                                               | <b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray | <b>Item No.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 4/09.90; gray |



1.1.1.1 Ferrule

|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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; uninsulated; 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; uninsulated; electro-tin plated; silver-colored                                                             |
| <br><b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; 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; uninsulated; electro-tin plated                                                                            | <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; 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; uninsulated; 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; uninsulated; electro-tin plated                                                                         | <br><b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; 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; uninsulated; electro-tin plated; silver-colored                                                             |

1.1.2 Marking

1.1.2.1 Marking strip

|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 210-332/1000-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white  | <br><b>Item No.: 210-332/1016-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white  | <br><b>Item No.: 210-332/1000-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <br><b>Item No.: 210-332/1016-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white |
| <br><b>Item No.: 210-332/1000-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <br><b>Item No.: 210-332/1016-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (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.: 249-114

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 10 mm / 0.394 in; gray

Item No.: 249-115

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 10.16 mm / 0.4 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)