# Data Sheet | Item Number: 255-768
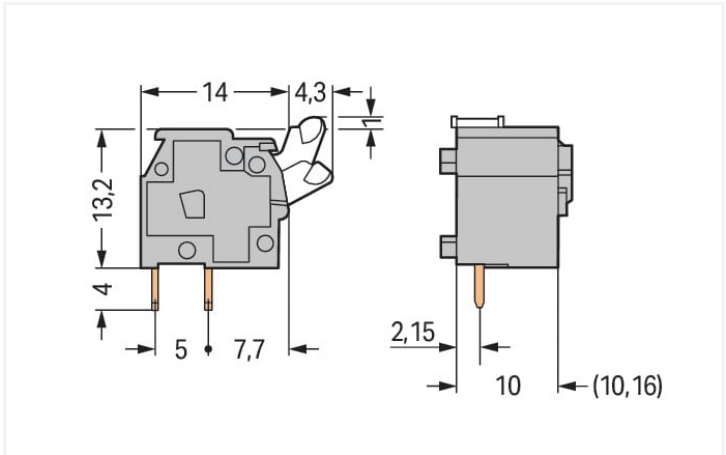
### Stackable PCB terminal block; push-button; 2.5 mm²; Pin spacing 10/10.16 mm; 1-pole; CAGE CLAMP®; commoning option; 2,50 mm²; black
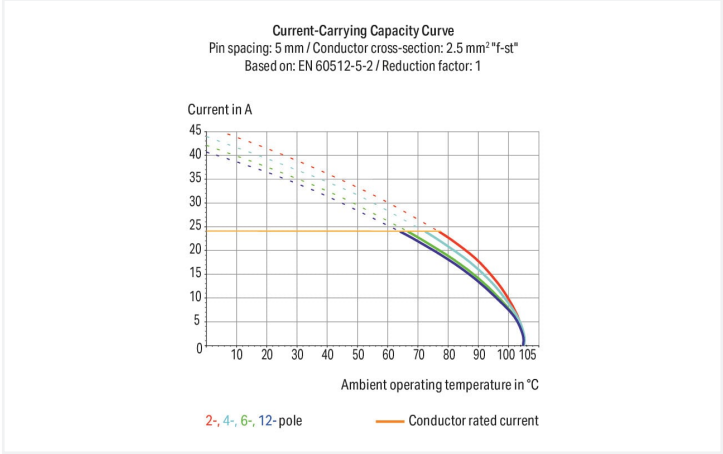
https://www.wago.com/255-768

**WAGO**

Color: ■ black

Similar to illustration

Dimensions in mm

**Current-Carrying Capacity Curve**
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1

Current in A

Ambient operating temperature in °C

2-, 4-, 6-, 12- pole ——— Conductor rated current

- PCB terminal blocks with push-buttons and CAGE CLAMP® connection
- Versions with Ex approval
- Set to metric or inch pin spacing by compressing PCB terminal strips or pulling them apart
- Ideal for in-the-field wiring thanks to simplified push-button actuation
- Convenient, tool-free operation

## Notes

| Variants: | | Other colors |
|---|---|---|
| | | Versions for Ex e II and Ex i |
| | | Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/. |

## Electrical data

### Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|---|---|
| Nominal voltage (III/3) | 630 V |
| Rated impulse voltage (III/3) | 8 kV |
| Rated voltage (III/2) | 1000 V |
| Rated impulse voltage (III/2) | 8 kV |
| Nominal voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 8 kV |
| Rated current | 24 A |

### Ratings per IEC/EN

| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |
|---|---|

## Ratings per UL 1059

| | |
|---|---|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

## Ratings per CSA

| | |
|---|---|
| Approvals per | CSA |
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

## Connection data

| | |
|---|---|
| Connection points | 1 |
| Total number of potentials | 1 |
| Number of connection types | 1 |
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Connection technology | CAGE CLAMP® |
| Actuation type | Push-button |
| 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 | 1 |

## Physical data

| | |
|---|---|
| Pin spacing | 10/10.16 mm / 0.394/0.4 inches |
| Width | 12.8 mm / 0.504 inches |
| Height | 18.2 mm / 0.717 inches |
| Height from the surface | 14.2 mm / 0.559 inches |
| Depth | 18.3 mm / 0.72 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 | within the terminal block (in-line) |
| Number of solder pins per potential | 2 |

## Material Data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E$_{Cu}$) |
| Contact plating | Tin |
| Fire load | 0.038 MJ |
| Weight | 1.7 g |

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| eCl@ss 10.0 | 27-44-04-01 |
| eCl@ss 9.0 | 27-44-04-01 |
| ETIM 8.0 | EC002643 |
| ETIM 7.0 | EC002643 |
| PU (SPU) | 300 (100) pcs |
| Packaging type | Box |
| Country of origin | CH |
| GTIN | 4055143541206 |
| Customs tariff number | 85369010000 |

## Approvals / Certificates

### Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|---|---|
| BV<br>Bureau Veritas S.A. | IEC 60998 | 11915/D0 BV |

## Downloads

### Environmental Product Compliance

**Compliance Search**

| | |
|---|---|
| Environmental Product<br>Compliance 255-768 | ↓ |

## Documentation

**Additional Information**

| | | | |
|---|---|---|---|
| Technical Section | 03.04.2019 | pdf<br>1949.09 KB | ↓ |
| Gebrückte Klemmen-<br>leisten für Leiterplatten | | pdf<br>303.71 KB | ↓ |

## CAD/CAE-Data

| CAD data | CAE data |
|---|---|
| 2D/3D Models 255-768 ⤓ | ZUKEN Portal 255-768 ⤓ |

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate

**Item No.: 255-800**
End plate; snap-fit type; 1 mm thick; black

**Item No.: 255-400**
End plate; snap-fit type; 1 mm thick; blue

**Item No.: 255-200**
End plate; snap-fit type; 1 mm thick; dark gray

**Item No.: 255-100**
End plate; snap-fit type; 1 mm thick; gray

**Item No.: 255-300**
End plate; snap-fit type; 1 mm thick; light gray

**Item No.: 255-700**
End plate; snap-fit type; 1 mm thick; light green

**Item No.: 255-600**
End plate; snap-fit type; 1 mm thick; orange

**Item No.: 255-500**
End plate; snap-fit type; 1 mm thick; red

#### 1.1.2 Installation

##### 1.1.2.1 Intermediate plate

**Item No.: 255-821**
Spacer; for doubling the pin spacing; 10/10.16 mm thick; gray

**Item No.: 255-801**
Spacer; for doubling the pin spacing; 5/5.08 mm thick; gray

**Item No.: 255-811**
Spacer; for doubling the pin spacing; 7.5/7.62 mm thick; gray

### 1.2 Optional Accessories

#### 1.2.1 Ferrule

##### 1.2.1.1 Ferrule

**Item No.: 216-301**
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

**Item No.: 216-321**
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

**Item No.: 216-151**
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-131**
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-302**
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

**Item No.: 216-322**
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

**Item No.: 216-132**
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-152**
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

**Item No.: 216-241**
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

**Item No.: 216-201**
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

**Item No.: 216-221**
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

**Item No.: 216-141**
Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

## 1.2.1.1 Ferrule

**Item No.: 216-101**
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored

**Item No.: 216-121**
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored

**Item No.: 216-242**
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

**Item No.: 216-262**
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

**Item No.: 216-202**
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-sulated; electro-tin plated; gray

**Item No.: 216-222**
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-sulated; electro-tin plated; gray

**Item No.: 216-142**
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electroly-tic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-102**
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-lored

**Item No.: 216-122**
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

**Item No.: 216-243**
Ferrule; Sleeve for 1 mm² / AWG 18; insu-lated; electro-tin plated; electrolytic cop-per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

**Item No.: 216-263**
Ferrule; Sleeve for 1 mm² / AWG 18; insu-lated; electro-tin plated; electrolytic cop-per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

**Item No.: 216-203**
Ferrule; Sleeve for 1 mm² / AWG 18; insu-lated; electro-tin plated; red

**Item No.: 216-223**
Ferrule; Sleeve for 1 mm² / AWG 18; insu-lated; electro-tin plated; red

**Item No.: 216-103**
Ferrule; Sleeve for 1 mm² / AWG 18; unin-sulated; electro-tin plated

**Item No.: 216-143**
Ferrule; Sleeve for 1 mm² / AWG 18; unin-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-123**
Ferrule; Sleeve for 1 mm² / AWG 18; unin-sulated; electro-tin plated; silver-colored

**Item No.: 216-204**
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-sulated; electro-tin plated; black

**Item No.: 216-224**
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-sulated; electro-tin plated; black

**Item No.: 216-244**
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-264**
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-284**
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item No.: 216-124**
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated

**Item No.: 216-144**
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

**Item No.: 216-104**
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored

## 1.2.2 Marking

## 1.2.2.1 Marking strip

**Item No.: 210-833**
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

**Item No.: 210-332/1000-202**
Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal mar-king; Self-adhesive; white

**Item No.: 210-332/1016-202**
Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal mar-king; Self-adhesive; white

**Item No.: 210-332/1000-204**
Marking strips; as a DIN A4 sheet; MAR-KED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal mar-king; Self-adhesive; white

**Item No.: 210-332/1016-204**
Marking strips; as a DIN A4 sheet; MAR-KED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal mar-king; Self-adhesive; white

**Item No.: 210-332/1000-206**
Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

**Item No.: 210-332/1016-206**
Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal mar-king; Self-adhesive; white

## 1.2.3 Test and measurement

## 1.2.3.1 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

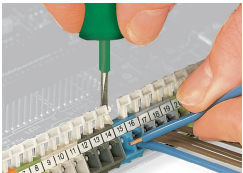## 1.2.4 Tool

### 1.2.4.1 Operating tool

**Item No.: 210-658**
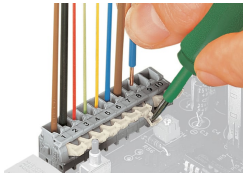Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

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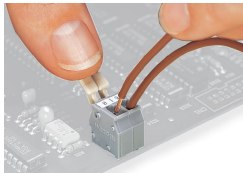
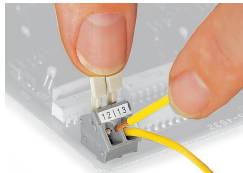## Installation Notes

### Conductor termination

Inserting/removing a conductor – 256 Series.
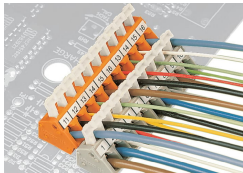
Inserting/removing a conductor (255 Series)

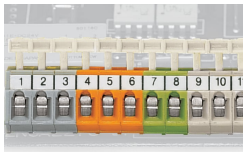Inserting/removing a conductor via finger-operated lever – 255 Series.

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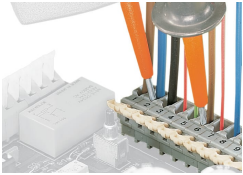
### Installation

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.

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

Current addresses can be found at:: www.wago.com

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