# Data Sheet | Item Number: 862-8505

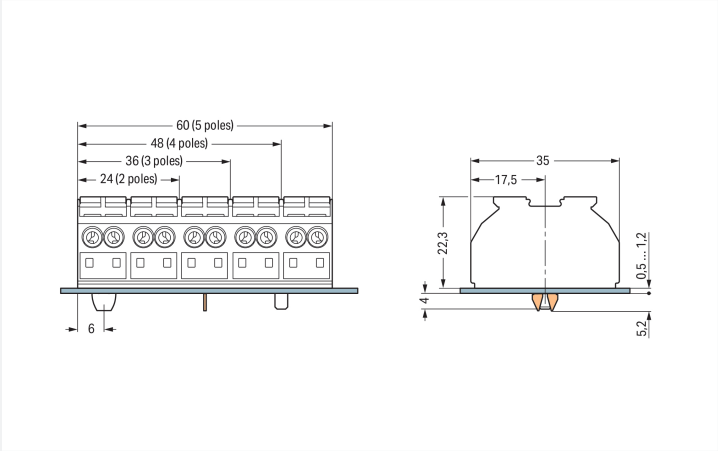
4-conductor chassis-mount terminal strip; with ground contact; L3-N-PE-L1-L2; 5-pole; for 3 mm ø screw and nut; 4 mm²; black

https://www.wago.com/862-8505

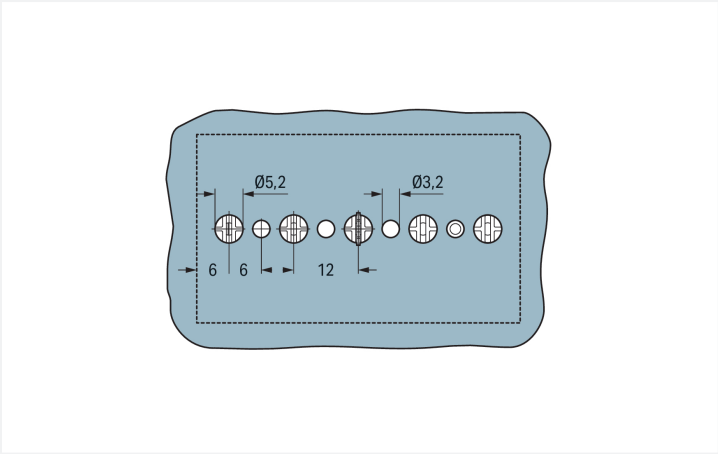



Color: ■ black

Similar to illustration




Dimensions in mm
Dimensions in mmfor chassis-mount terminal strips




Dimensions in mmfor PE contact and snap-in mounting foot (Ø 5.2 mm)

Chassis-mount terminal strip, 862 Series, black

Effortless electrical installations are guaranteed with this chassis-mount terminal strip (item number 862-8505). Ensure that the strip lengths are between 10 and 11 mm when connecting conductors to this chassis-mount terminal strip. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Dimensions: (60 x 27.5 x 35) mm (width x height x depth). Depending on the conductor type, this chassis-mount terminal strip is ideal for conductor cross sections ranging from 0.5 mm² to 4 mm².

## Electrical data

### Ratings per IEC/EN

| | |
|---|---|
| Nominal voltage (III/3) | 500 V |
| Rated impulse withstand voltage (III / 3) | 6 kV |
| Rated current | 32 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

### General information

| | |
|---|---|
| Wiring direction | Side-entry wiring |

## Connection Data

| | |
|---|---|
| Clamping units | 20 |
| Total number of potentials | 5 |
| PE function | with ground contact |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Connectable conductor materials | Copper |
| Solid conductor | 0.5 … 4 mm² / 20 … 12 AWG |
| Solid conductor; push-in termination | 0.75 … 4 mm² / 18 … 12 AWG |
| Stranded conductor | 0.5 … 4 mm² / 20 … 12 AWG |
| Fine-stranded conductor | 0.5 … 4 mm² / 20 … 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 1.5 mm² / 20 … 16 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 … 1.5 mm² / 18 … 16 AWG |
| Note (conductor cross-section) | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
| Strip length | 10 … 11 mm / 0.39 … 0.43 inches |
| Pole number | 5 |
| Wiring direction | Side-entry wiring |

## Physical data

| | |
|---|---|
| Pin spacing | 12 mm / 0.472 inches |
| Width | 60 mm / 2.362 inches |
| Height | 27.5 mm / 1.083 inches |
| Height from the surface | 22.3 mm / 0.878 inches |
| Depth | 35 mm / 1.378 inches |

## Mechanical data

| | |
|---|---|
| Marking | L3-N-⏚-L1-L2 |
| Mounting type | Screw mount |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.548 MJ |
| Halogen-free | Yes |
| Weight | 34.6 g |

## Commercial data

| | |
|---|---|
| PU (SPU) | 200 pcs |
| Packaging type | Bag |
| Country of origin | DE |
| GTIN | 4044918510370 |
| Customs tariff number | 85369010000 |


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## Product Classification

| | |
|---|---|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-06 |
| eCl@ss 9.0 | 27-14-11-06 |
| ETIM 9.0 | EC001284 |
| ETIM 10.0 | EC001284 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL 6912 |
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 1505030 |
| ENEC 15<br>UL International Germany GmbH | EN 60998 | 143856-01 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 2146425.01 |
| UL<br>UL International Germany GmbH | UL 1059 | E45172 |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |
| PRS<br>Polski Rejestr Statków | - | TE/1094/880590/23 |

### Declarations of conformity and manufacturer's declarations

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


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## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 862-8505

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 862-8505 | 19.02.2019 | xml 3.72 KB |
| 862-8505 | 12.06.2017 | doc 25.00 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 862-8505

**CAE data**

EPLAN Data Portal 862-8505

WSCAD Universe 862-8505

ZUKEN Portal 862-8505

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 Ferrule



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



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



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



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



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



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



Item No.: 216-244
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



Item No.: 216-144
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


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### 1.1.2 Jumper

#### 1.1.2.1 Jumper



Item No.: 862-482
Jumper; for conductor entry; insulated; black

### 1.1.3 Marking

#### 1.1.3.1 Marking strip



Item No.: 709-177
Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent



Item No.: 709-178
Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

### 1.1.4 Test and measurement

#### 1.1.4.1 Testing accessories



Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

### 1.1.5 Tool

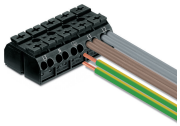
#### 1.1.5.1 Operating tool



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

## Installation Notes

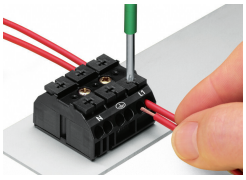

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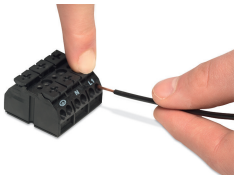
**Cost-effective features:**
WAGO's 862 Series Chassis-Mount Terminal Strips were developed specifically to minimize wiring costs, while accommodating requirements for flexible mounting, multiple connection points and easy usage:

- Equipped with Push-in CAGE CLAMP®, the 862 Series connects up to four conductors sized 0.5 to 4 mm² (20 … 12 AWG). Due to multiple connection points per pole, different conductor sizes can be used within the same terminal block position.
- For factory wiring, Push-in CAGE CLAMP® Connection Technology allows solid conductors, fine-stranded conductors with ferrules or ultrasonically bonded conductors from 0.5 … 4 mm² (20 … 12 AWG) to be terminated by simply pushing them into unit (length of bonded conductor end: min. 10 mm).
- Convenient automatic grounding contact (optional)
- Snap-in mounting feet for fast assembly
- Push-buttons for easy installation with an operating tool or by hand
- Built-in test points simplify testing with 2 mm Ø test plug
- Standard marking for each pole, or custom marking for large orders

## Conductor termination

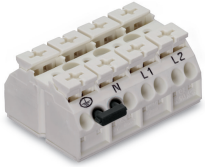


Terminating four conductors per pole – solid and fine-stranded.



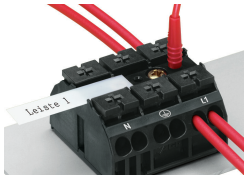
Inserting a conductor via push-button.

## Commoning

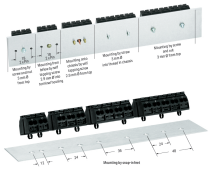



Commoning using a comb-style jumper bar (862-482).

## Testing

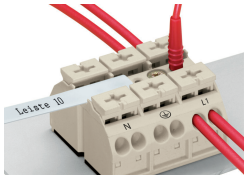



Testing with a 2 mm Ø test plug (max. 42 V).



Dimensions in mm

## Marking




Marking by direct, one-side printing and marking strips