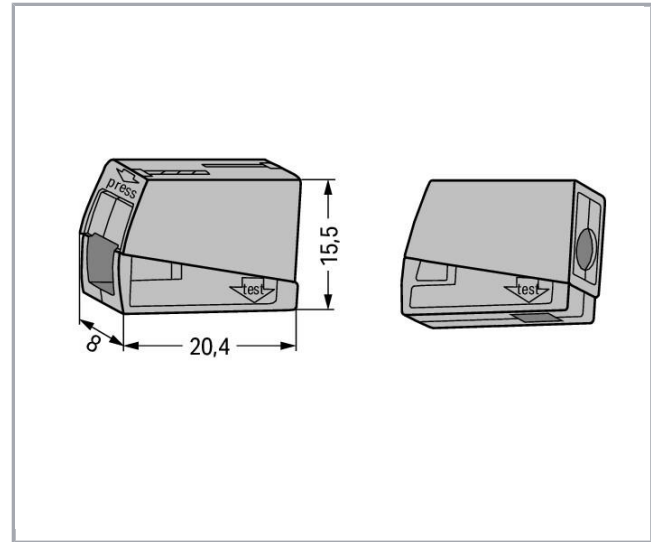
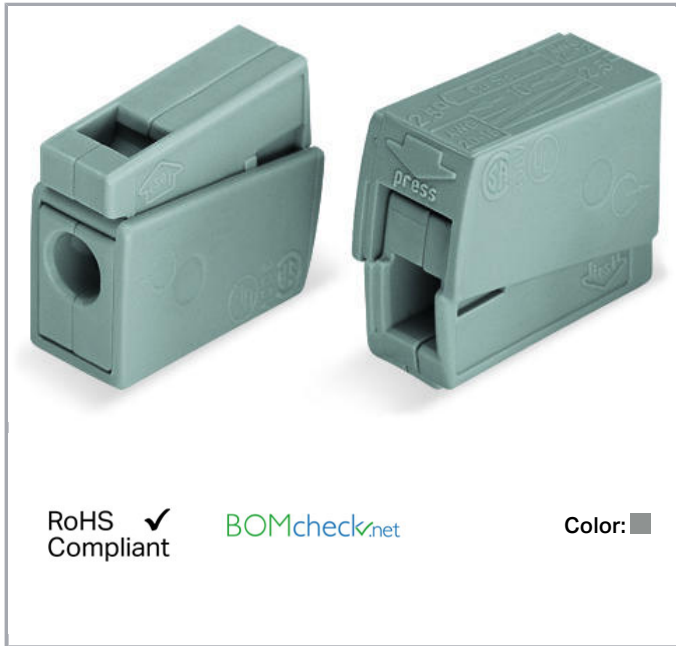


Data sheet | Item number: 224-101
Power supply connector; 2,50 mm²; gray

www.wago.com/224-101



Item description

Note:

Terminating Aluminum Conductors

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste is used for termination.

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with PUSH WIRE® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.**

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

2.5 mm² (14 AWG) = 16 A

4 mm² (12 AWG) = 22 A

Safety information 1:

In grounded power lines

Data

Electrical data

Ratings per IEC/EN 60664-1

| | |
|--------------------------------|---|
| Rated voltage (II / 2) | 400 V |
| Rated impulse voltage (II / 2) | 4 kV |
| Rated current | 24 A |
| Legend (ratings) | (II / 2) $\hat{=}$ Overvoltage category II / Pollution degree 2 |

Connection data

| | |
|-----------------------------------|---|
| Connection type (1) | Installation side: |
| Connection technology | PUSH WIRE [®] |
| Actuation type | Push-in |
| Connectable conductor materials | Copper Aluminum |
| Solid conductor | 1 ... 2.5 mm ² / 14 ... 12 AWG |
| Strip length | 9 ... 11 mm / 0.35 ... 0.43 inch |
| Connection type (2) | Lighting side: |
| Connection technology 2 | CAGE CLAMP [®] |
| Number of connection points | 1 |
| Solid conductor (2) | 0.5 ... 2.5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor (2) | 0.5 ... 2.5 mm ² / 20 ... 16 AWG |
| Total number of connection points | 2 |
| Total number of potentials | 1 |
| Type of wiring | Side-entry wiring |

Geometrical Data

| | |
|--------|----------------------|
| Width | 8 mm / 0.315 inch |
| Height | 15.5 mm / 0.61 inch |
| Depth | 20.4 mm / 0.803 inch |

Material Data

| | |
|-----------|----------|
| Color | gray |
| Fire load | 0.041 MJ |
| Weight | 2.1 |

Environmental Requirements



| | |
|----------------------------------|--------|
| Continuous operating temperature | 105 °C |
|----------------------------------|--------|

Commercial data





| | |
|--------------------|---------------|
| Packaging type | BOX |
| Country of origin | CH |
| GTIN | 4044918583817 |
| Customs Tariff No. | 8536901000 |

Approvals / Certificates


Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | CSA DEKRA Certification B.V. | C22.2 | 1053495 |
|  | VDE VDE Prüf- und Zertifizierungsinstitut | EN 60998 | 40022792 |


Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|--|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 18- HG1755093- PDA |
|  | BV Bureau Veritas S.A. | EN 60998 | 11914/CO BV |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | EN 60998 | TAE000015T |
|  | LR Lloyds Register | EN 60998 | 04/20013 (E8) |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|-----------------------------|
|  | UL UL International Germany GmbH | EN 60998 | D-05895- A1 (EN60998- |

1
EN60998-
2-2)

| | | | |
|---|-------------------------------------|----------|-----------------|
| CCA | UL UL International Germany GmbH | EN 60998 | CCA- 2617-A1 |
|  | UL UL International Germany GmbH | UL 486C | E69654 |

Compatible products

General accessories

| | | |
|--|--|--|
|  | Item no.: 249-130 Syringe; Contents: 20 ml Alu-Plus contact paste | www.wago.com/249-130 |
|--|--|--|

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|-----------|-----------------|----------|
| 224-101 docx - Datei | 21.2.2019 | docx 15.9 kB | Download |
| 224-101 X81 - Datei | 19.2.2019 | xml 3.5 kB | Download |

Additional Information

| | | | |
|------------------------|----------|---------------|----------|
| Technical explanations | 3.4.2019 | pdf 2.1 MB | Download |
|------------------------|----------|---------------|----------|

CAD/CAE-Data

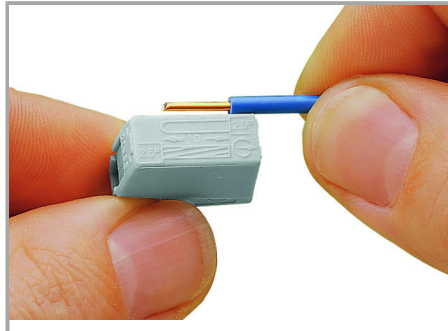
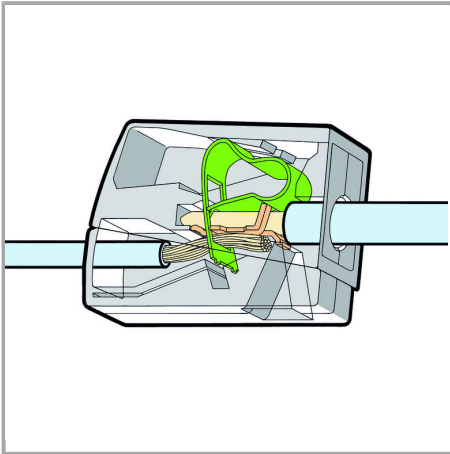
CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 224-101 | URL | Download |
|----------------------|-----|----------|

CAE data

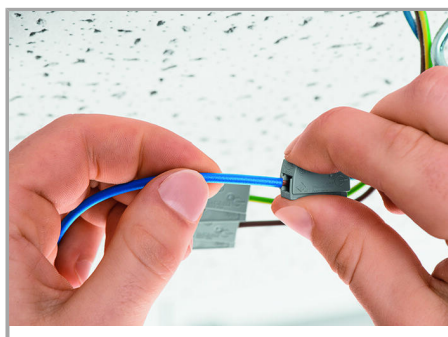
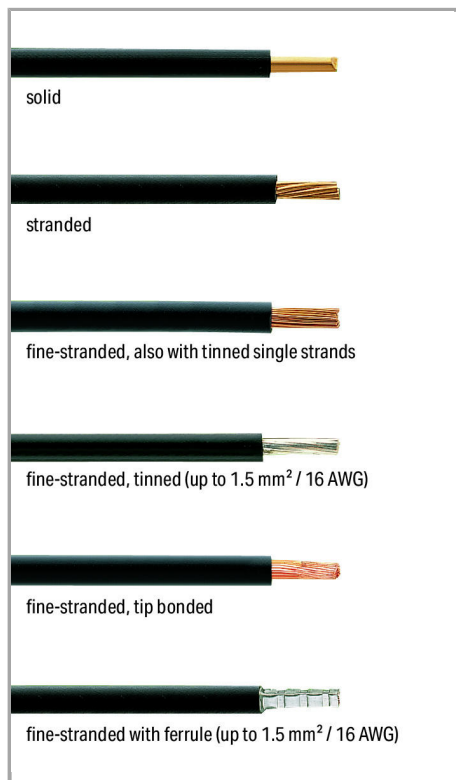
| | |
|---------------------------|----------|
| EPLAN Data Portal 224-101 | Download |
| WSCAD Universe 224-101 | Download |

Installation Notes

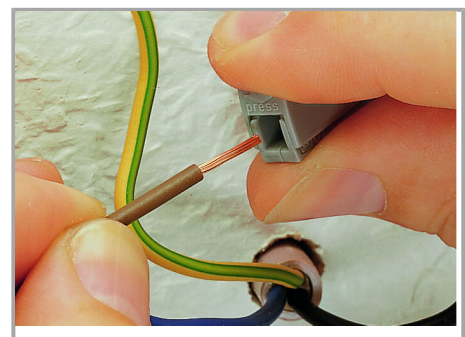


Strip conductor to 9 ... 11 mm (0.35 ... 0.43 inch).

Lighting Connectors, 2.5 mm² (12 AWG), 224 Series

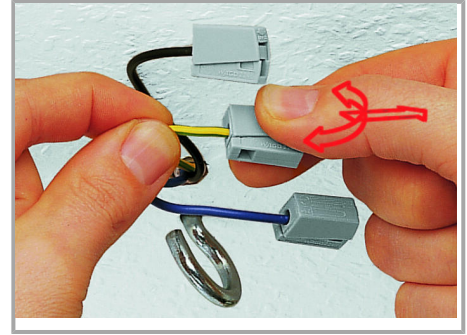
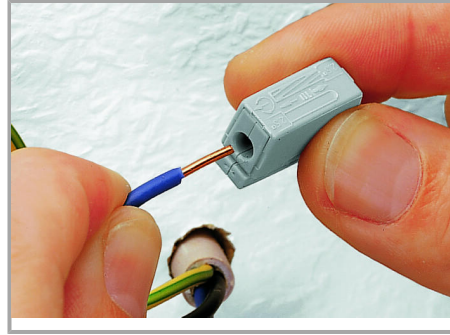


To connect: Press button fully, insert stripped conductor into square entry and release.



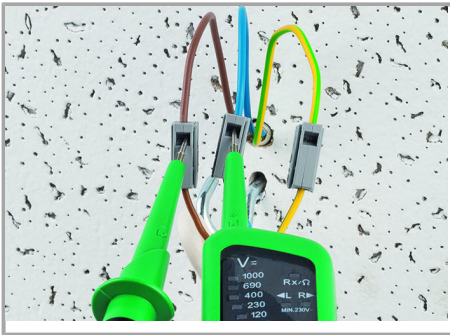
To remove: Press button and withdraw conductor.

Subject to changes.



To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.

To remove: Hold conductor to be removed and twist alternately left and right while slightly pulling the connector.



Testing via separate test ports.

Subject to changes.



Connecting solid conductors with fine-stranded conductors via lighting connectors (224-101).

Subject to changes.