

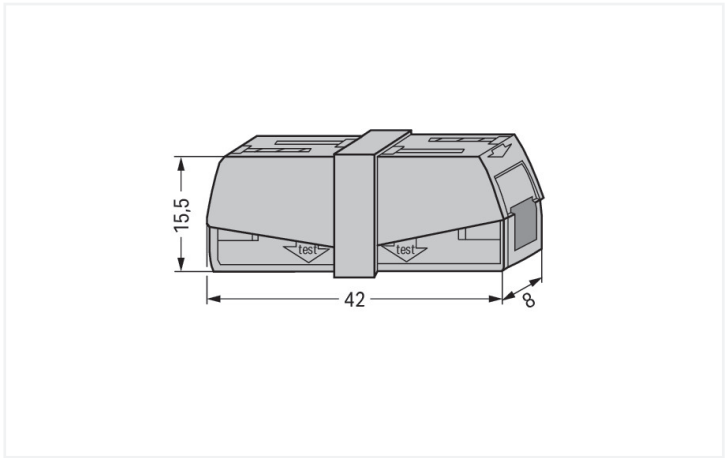
Data Sheet | Item Number: 224-201

Service connector; push-button on both sides; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; gray

<https://www.wago.com/224-201>



Color: ■ gray



Dimensions in mm

Notes

|                    |                         |
|--------------------|-------------------------|
| Safety information | in grounded power lines |
|--------------------|-------------------------|

Electrical data

| Ratings per          | EN 60664 |     |       |
|----------------------|----------|-----|-------|
| Overvoltage category | III      | III | II    |
| Pollution degree     | 3        | 2   | 2     |
| Nominal voltage      | -        | -   | 400 V |
| Rated surge voltage  | -        | -   | 4 kV  |
| Rated current        | -        | -   | 24 A  |

Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 2 |
| Total number of potentials | 1 |

| Connection 1                    |                    |
|---------------------------------|--------------------|
| Connection technology           | CAGE CLAMP®        |
| Actuation type                  | Push-in            |
| Connectable conductor materials | Copper<br>Aluminum |



Connection 1

|  |   |
|--|---|
| Connectable conductor materials (note) | <p><b>Terminating Aluminum Conductors</b></p> <p>WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO “Alu-Plus” Contact Paste <a href="#">249-130</a> is used for termination.</p> <p>“Alu-Plus” Contact Paste Advantages:</p> <ul style="list-style-type: none"><li>• Automatically destroys the oxide film during clamping.</li><li>• Prevents fresh oxidation at the clamping point.</li><li>• Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).</li><li>• Provides long-term protection against corrosion.</li></ul> <p>Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, <b>aluminum conductors must first be cleaned with a blade</b> and then immediately be inserted into the clamping units filled with “Alu-Plus” Contact Paste.</p> <p>It is also possible to apply WAGO “Alu-Plus” <b>additionally</b> on the whole surface of the aluminum conductor before termination.</p> <p>Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::</p> <p>2.5 mm² = 16 A<br/>4 mm² = 22 A</p> |
| Solid conductor                        | 0.5 ... 2.5 mm² / 20 ... 16 AWG   |
| Fine-stranded conductor                | 0.5 ... 2.5 mm² / 20 ... 16 AWG   |
| Strip length                           | 9 ... 11 mm / 0.35 ... 0.43 inches  |
| Wiring direction                       | Side-entry wiring   |

| Physical data |                       |
|---------------|-----------------------|
| Width         | 8 mm / 0.315 inches   |
| Height        | 15.5 mm / 0.61 inches |
| Depth         | 42 mm / 1.654 inches  |

| Material data        |  |
|----------------------|--|
| Note (material data) | <a href="#">Information on material specifications can be found here</a> |
| Color                | gray   |
| Fire load            | 0.116 MJ   |
| Weight               | 4.6 g  |






| Environmental requirements      |        |
|---------------------------------|--------|
| Ambient temperature (operation) | +60 °C |







| Commercial data       |  |               |
|-----------------------|--|---------------|
| eCl@ss 10.0           |  | 27-14-11-03   |
| eCl@ss 9.0            |  | 27-14-11-03   |
| ETIM 8.0              |  | EC000447      |
| ETIM 7.0              |  | EC000447      |
| PU (SPU)              |  | 50 pcs        |
| Packaging type        |  | Box           |
| Country of origin     |  | CH            |
| GTIN                  |  | 4044918818407 |
| Customs tariff number |  | 85369010000   |

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

Approvals / Certificates

| General approvals  |          |                                       | Declarations of conformity and manufacturer's declarations |          |                  |
|--|----------|---------------------------------------|--|----------|------------------|
|      |          |                                       |  |          |                  |
| Approval   | Standard | Certificate Name                      | Approval   | Standard | Certificate Name |
| CSA<br>DEKRA Certification B.V.  | C22.2    | 1053495                               | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>UL International Germany<br>GmbH   | UL 486C  | E69654                                | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>UL International Germany<br>GmbH   | EN 60998 | CCA-2617-A1                           |  |          |                  |
| UL<br>UL International Germany<br>GmbH   | EN 60998 | D-05895-A1 (EN60998-1<br>EN60998-2-2) |  |          |                  |
| VDE<br>VDE Prüf- und Zertifizie-<br>rungsinstitut  | EN 60998 | 40022792                              |  |          |                  |



Approvals for marine applications

|     |          |                  |
|--|----------|------------------|
| Approval   | Standard | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping  | -        | 18-HG1755093-PDA |
| BV<br>Bureau Veritas S.A.  | EN 60998 | 11914/D0 BV      |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd  | EN 60998 | TAE000015T       |
| LR<br>Lloyds Register  | EN 60998 | LR22207029TA     |

## Environmental Product Compliance 224-201



### Bid Text

|         |            |                  |   |
|---------|------------|------------------|---|
| 224-201 | 19.02.2019 | xml<br>3.12 KB   | <a href="#"></a> |
| 224-201 | 21.02.2019 | docx<br>15.18 KB | <a href="#"></a> |

CAD data

2D/3D Models 224-201



## CAE data

EPLAN Data Portal  
224-201

WSCAD Universe  
224-201



ZUKEN Portal 224-201

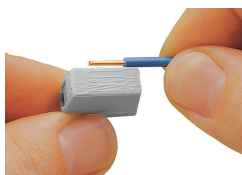


#### 1.1.1.1 "Alu-Plus" contact paste

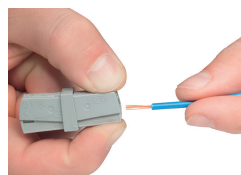


Syringe; Contents: 20 ml Alu-Plus contact paste

## Conductor termination



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



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

## Application



Service connector