

## Data Sheet | Item Number: 2706-209

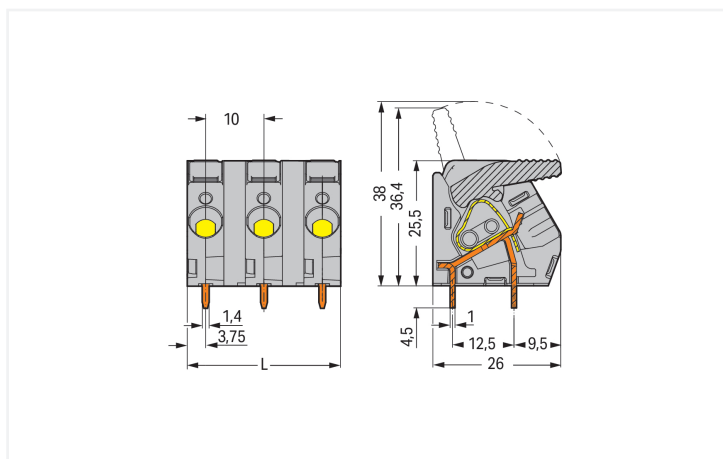
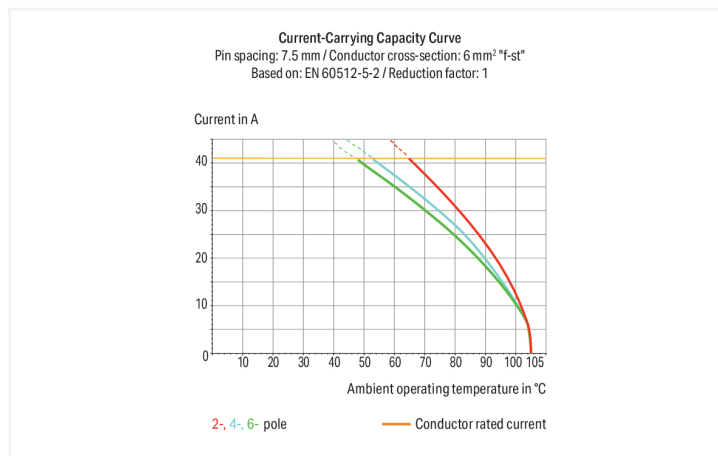
PCB terminal block; lever; 6 mm<sup>2</sup>; Pin spacing 10 mm; 9-pole; CAGE CLAMP®; gray

<https://www.wago.com/2706-209>



Color: ■ gray

Similar to illustration



Dimensions in mm

L = (pole no. x pin spacing) – 2.5 mm

### PCB terminal block, 2706 Series, CAGE CLAMP®

This PCB terminal block (item number 2706-209) is designed for simple and secure connections. It is a universal connector that can be used almost anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors should only be connected to this PCB terminal block if their strip length is between 11 and 12 mm. This product incorporates one conductor terminal and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. The item's dimensions are (85 x 30 x 26) mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is ideal for conductor cross sections ranging from 0.5 mm<sup>2</sup> to 6 mm<sup>2</sup>.

Tin is used for coating the contact surfaces. This PCB terminal block is operated with a lever. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at an angle of 30°..



| Notes     |                                                                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole numbers<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 |        |        |
| Overvoltage category            |  | III            | III    | II     |
| Pollution degree                |  | 3              | 2      | 2      |
| Nominal voltage                 |  | 800 V          | 1000 V | 1000 V |
| Rated impulse withstand voltage |  | 8 kV           | 8 kV   | 8 kV   |
| Rated current                   |  | 41 A           | 41 A   | 41 A   |
| Approvals per                   |  | UL 1059        |        |        |
| Use group                       |  | B              | C      | D      |
| Rated voltage                   |  | 300 V          | 150 V  | 600 V  |
| Rated current                   |  | 30 A           | 30 A   | 5 A    |

| Connection Data                                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
|---------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|----------------|-------|-----------------|-------------------------------|-------------------------|-------------------------------|-------------------------------------------------|---------------|---------------------------------------------------|---------------|--------------|-------------------------------------|---------------------------------------|------|-------------|---|
| Clamping units                                    | 9                                   | <div>Connection 1</div> <table><tr><td>Connection technology</td><td>CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Lever</td></tr><tr><td>Solid conductor</td><td>0.5 ... 6 mm² / 20 ... 10 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.5 ... 6 mm² / 20 ... 10 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.5 ... 6 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.5 ... 6 mm²</td></tr><tr><td>Strip length</td><td>11 ... 12 mm / 0.43 ... 0.47 inches</td></tr><tr><td>Conductor connection direction to PCB</td><td>30 °</td></tr><tr><td>Pole number</td><td>9</td></tr></table> | Connection technology | CAGE CLAMP® | Actuation type | Lever | Solid conductor | 0.5 ... 6 mm² / 20 ... 10 AWG | Fine-stranded conductor | 0.5 ... 6 mm² / 20 ... 10 AWG | Fine-stranded conductor; with insulated ferrule | 0.5 ... 6 mm² | Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 6 mm² | Strip length | 11 ... 12 mm / 0.43 ... 0.47 inches | Conductor connection direction to PCB | 30 ° | Pole number | 9 |
| Connection technology                             | CAGE CLAMP®                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Actuation type                                    | Lever                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Solid conductor                                   | 0.5 ... 6 mm² / 20 ... 10 AWG       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Fine-stranded conductor                           | 0.5 ... 6 mm² / 20 ... 10 AWG       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Fine-stranded conductor; with insulated ferrule   | 0.5 ... 6 mm²                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 6 mm²                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Strip length                                      | 11 ... 12 mm / 0.43 ... 0.47 inches |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Conductor connection direction to PCB             | 30 °                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Pole number                                       | 9                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Total number of potentials                        | 9                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Number of connection types                        | 1                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |
| Number of levels                                  | 1                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |             |                |       |                 |                               |                         |                               |                                                 |               |                                                   |               |              |                                     |                                       |      |             |   |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 10 mm / 0.394 inches   |
| Width                   | 85 mm / 3.346 inches   |
| Height                  | 30 mm / 1.181 inches   |
| Height from the surface | 25.5 mm / 1.004 inches |
| Depth                   | 26 mm / 1.024 inches   |
| Solder pin length       | 4.5 mm                 |
| Solder pin dimensions   | 1 x 1.4 mm             |
| !                       | 1.8 (+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                          | 1.168 MJ                                                                 |  |
| Weight                             | 54.4 g                                                                   |  |

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

| Commercial data       |                                |  |
|-----------------------|--------------------------------|--|
| Product Group         | 4 (Printed Circuit Connectors) |  |
| PU (SPU)              | 10 pcs                         |  |
| Packaging type        | Box                            |  |
| Country of origin     | PL                             |  |
| GTIN                  | 4050821093299                  |  |
| 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 10.0              | EC002643             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

| Approvals / Certificates                                                                                                                                                                                                                                                                                                                       |               |                                                                                                                                                                                                                                                                                   |          |          |                  |                                                      |   |   |                                                      |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|------------------------------------------------------|---|---|------------------------------------------------------|---|---|
| General approvals                                                                                                                                                                                                                                                                                                                              |               | Declarations of conformity and manufacturer's declarations                                                                                                                                                                                                                        |          |          |                  |                                                      |   |   |                                                      |   |   |
|     |               |                                                                                                                                                                                                                                                                                   |          |          |                  |                                                      |   |   |                                                      |   |   |
| Approval                                                                                                                                                                                                                                                                                                                                       | Standard      | Certificate Name                                                                                                                                                                                                                                                                  |          |          |                  |                                                      |   |   |                                                      |   |   |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                | EN 60947      | 2143801.01                                                                                                                                                                                                                                                                        |          |          |                  |                                                      |   |   |                                                      |   |   |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                | EN 60947-7-4  | NTR NL-7869                                                                                                                                                                                                                                                                       |          |          |                  |                                                      |   |   |                                                      |   |   |
| CSA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                | C22.2 No. 158 | 2516072                                                                                                                                                                                                                                                                           |          |          |                  |                                                      |   |   |                                                      |   |   |
| UL<br>UL International Germany GmbH                                                                                                                                                                                                                                                                                                            | UL 1059       | E45172                                                                                                                                                                                                                                                                            |          |          |                  |                                                      |   |   |                                                      |   |   |
|                                                                                                                                                                                                                                                                                                                                                |               | <table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr></table> | Approval | Standard | Certificate Name | EU-Declaration of Confor- mity<br>WAGO GmbH & Co. KG | - | - | UK-Declaration of Confor- mity<br>WAGO GmbH & Co. KG | - | - |
| Approval                                                                                                                                                                                                                                                                                                                                       | Standard      | Certificate Name                                                                                                                                                                                                                                                                  |          |          |                  |                                                      |   |   |                                                      |   |   |
| EU-Declaration of Confor- mity<br>WAGO GmbH & Co. KG                                                                                                                                                                                                                                                                                           | -             | -                                                                                                                                                                                                                                                                                 |          |          |                  |                                                      |   |   |                                                      |   |   |
| UK-Declaration of Confor- mity<br>WAGO GmbH & Co. KG                                                                                                                                                                                                                                                                                           | -             | -                                                                                                                                                                                                                                                                                 |          |          |                  |                                                      |   |   |                                                      |   |   |



Downloads

Environmental Product Compliance

|                                           |  |  |  |
|-------------------------------------------|--|--|--|
| Compliance Search                         |  |  |  |
| Environmental Product Compliance 2706-209 |  |  |  |

Documentation

|                        |            |                   |  |
|------------------------|------------|-------------------|--|
| Additional Information |            |                   |  |
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

|                       |  |  |  |
|-----------------------|--|--|--|
| CAD data              |  |  |  |
| 2D/3D Models 2706-209 |  |  |  |

|                       |  |
|-----------------------|--|
| CAE data              |  |
| ZUKEN Portal 2706-209 |  |

|                                                   |  |
|---------------------------------------------------|--|
| PCB Design                                        |  |
| Symbol and Footprint via SamacSys 2706-209        |  |
| Symbol and Footprint via Ultra Librarian 2706-209 |  |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><a href="#">Item No.: 216-262</a><br>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 | <br><a href="#">Item No.: 216-263</a><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><a href="#">Item No.: 216-264</a><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><a href="#">Item No.: 216-284</a><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><a href="#">Item No.: 216-289</a><br>Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <br><a href="#">Item No.: 216-266</a><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue | <br><a href="#">Item No.: 216-286</a><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue  | <br><a href="#">Item No.: 216-267</a><br>Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray    |
| <br><a href="#">Item No.: 216-287</a><br>Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray    | <br><a href="#">Item No.: 216-208</a><br>Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow | <br><a href="#">Item No.: 216-288</a><br>Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow  | <br><a href="#">Item No.: 216-108</a><br>Ferrule; Sleeve for 6 mm² / AWG 10; uninsulated; electro-tin plated; silver-colored                                                                |

## 1.1.2 Test and measurement

### 1.1.2.1 Testing accessories



Item No.: 210-136

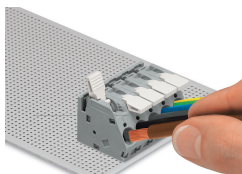
Test plug; 2 mm Ø; with 500 mm cable; red

## Installation Notes

### Conductor termination

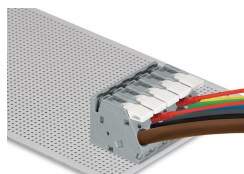


To open the clamping unit, pull the operating lever all the way back — 2706 and 2716 Series.



Inserting/removing a conductor – 2706 and 2716 Series.

## Testing



Testing with test plug – 2706 and 2716 Series.