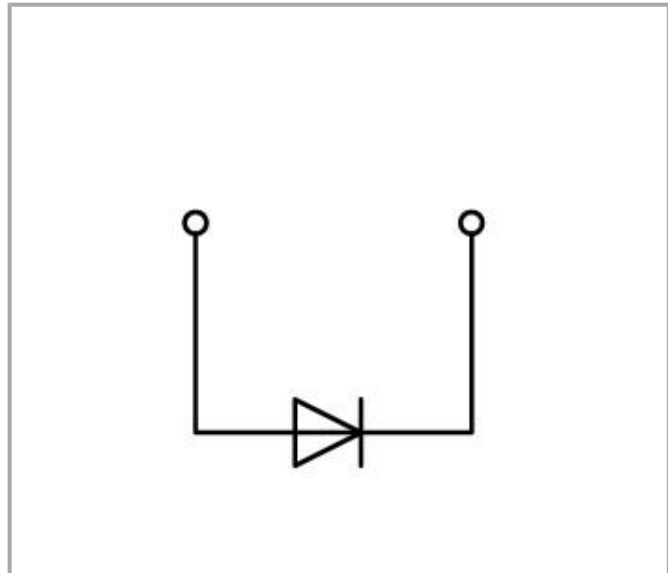
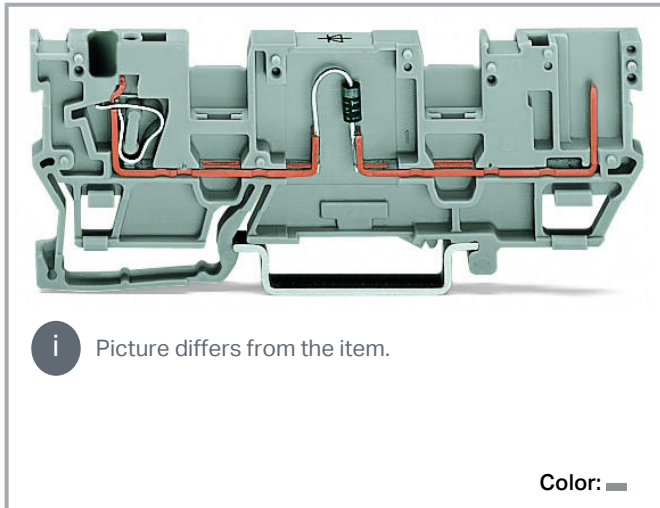


## Data sheet | Item number: 769-218/281-410

1-conductor/1-pin component carrier terminal block; with 2 jumper positions; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; gray

[www.wago.com/769-218/281-410](http://www.wago.com/769-218/281-410)



### Data

#### Electrical data

|                 |         |
|-----------------|---------|
| Nominal voltage | 250 V   |
| Reverse voltage | 1,000 V |

#### Ratings per IEC/EN

|               |       |
|---------------|-------|
| Rated current | 0.5 A |
|---------------|-------|

#### Connection data

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

#### Connection 1

|                             |             |
|-----------------------------|-------------|
| Connection technology       | CAGE CLAMP® |
| Number of connection points | 1           |

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

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|                                 |                                            |
|---------------------------------|--------------------------------------------|
| Actuation type                  | Operating tool                             |
| Connectable conductor materials | Copper                                     |
| Nominal cross-section           | 4 mm <sup>2</sup>                          |
| Solid conductor                 | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor         | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inch            |
| Wiring direction                | Front-entry wiring                         |

## Connection 2

|                               |   |
|-------------------------------|---|
| Number of connection points 2 | 1 |
|-------------------------------|---|

## Physical data

|                                   |                      |
|-----------------------------------|----------------------|
| Width                             | 5 mm / 0.197 inch    |
| Height                            | 87.5 mm / 3.445 inch |
| Depth from upper edge of DIN-rail | 28.5 mm / 1.122 inch |

## Mechanical data

|               |                 |
|---------------|-----------------|
| Design        | horizontal type |
| Mounting type | DIN-35 rail     |
| Marking level | Center marking  |

## Material data

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Note on material data       | Information on material data can be found here |
| Color                       | gray                                           |
| Insulation material         | Polyamide (PA66)                               |
| Flammability class per UL94 | V0                                             |
| Fire load                   | 0.173 MJ                                       |
| Weight                      | 8.1 g                                          |

## Commercial data

|                       |                   |
|-----------------------|-------------------|
| Product Group         | 18 (X-COM-System) |
| PU (SPU)              | 50 Stück          |
| Packaging type        | box               |
| Country of origin     | DE                |
| GTIN                  | 4045454198381     |
| Customs tariff number | 85366990990       |

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

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## Approvals / Certificates

### Country specific Approvals

| Logo                                                                             | Approval                                     | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.       | EN 60947                 | NTR NL-7626      |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2 No. 158            | 1101144          |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 60947                 | 2190419.01       |

### Ship Approvals

| Logo                                                                              | Approval                                                | Additional Approval Text | Certificate name |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | EN 60947                 | 20-HG1941090-PDA |
|                                                                                   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2       |

## Counterpart

|                                                                                   |                                                                                                                                                     |                                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | <b>Item no.769-101</b><br>1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray                 | <a href="http://www.wago.com/769-101">www.wago.com/769-101</a>                 |
|  | <b>Item no.769-121</b><br>2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray                 | <a href="http://www.wago.com/769-121">www.wago.com/769-121</a>                 |
|  | <b>Item no.769-101/022-000</b><br>1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray | <a href="http://www.wago.com/769-101/022-000">www.wago.com/769-101/022-000</a> |

## Required accessories

### End plate

|           |
|-----------|
| End plate |
|-----------|

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

**Item no.: 769-311**

End and intermediate plate; 1.1 mm thick; gray

[www.wago.com/769-311](http://www.wago.com/769-311)**Item no.: 769-312**

End and intermediate plate; 1.1 mm thick; orange

[www.wago.com/769-312](http://www.wago.com/769-312)**Optional accessories****End plate**

End plate

**Item no.: 769-314**

Separator plate; 1.1 mm thick; oversized; orange

[www.wago.com/769-314](http://www.wago.com/769-314)**Marking accessories**

Marker

**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/248-501](http://www.wago.com/248-501)**Testing and measuring**

Testing accessories

**Item no.: 210-136**

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

[www.wago.com/210-136](http://www.wago.com/210-136)**Item no.: 280-418**

Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray

[www.wago.com/280-418](http://www.wago.com/280-418)**Item no.: 280-404**Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup> tbs; gray[www.wago.com/280-404](http://www.wago.com/280-404)**Item no.: 280-419**

Spacer module; modular; bridging commoned terminal blocks; gray

[www.wago.com/280-419](http://www.wago.com/280-419)**Jumpers**

Jumper

**Item no.: 280-402**

Jumper; insulated; gray

[www.wago.com/280-402](http://www.wago.com/280-402)**Item no.: 280-409**

Jumper; insulated; gray

[www.wago.com/280-409](http://www.wago.com/280-409)**Item no.: 780-454**

Staggered jumper; from 1 to 4; insulated; gray

[www.wago.com/780-454](http://www.wago.com/780-454)**Item no.: 780-452**

Staggered jumper; from 1 to 2; insulated; gray

[www.wago.com/780-452](http://www.wago.com/780-452)

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

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|                                                                                                                       |                                                                                                                                |                                                                |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Item no.: 780-453</b><br>Staggered jumper; from 1 to 3; insulated; gray                                            |                                                                                                                                | <a href="http://www.wago.com/780-453">www.wago.com/780-453</a> |
| <b>Item no.: 780-457</b><br>Staggered jumper; from 1 to 7; insulated; gray                                            |                                                                                                                                | <a href="http://www.wago.com/780-457">www.wago.com/780-457</a> |
| <b>Item no.: 780-456</b><br>Staggered jumper; from 1 to 6; insulated; gray                                            |                                                                                                                                | <a href="http://www.wago.com/780-456">www.wago.com/780-456</a> |
| <b>Item no.: 780-455</b><br>Staggered jumper; from 1 to 5; insulated; gray                                            |                                                                                                                                | <a href="http://www.wago.com/780-455">www.wago.com/780-455</a> |
| <b>Item no.: 780-458</b><br>Staggered jumper; from 1 to 8; insulated; gray                                            |                                                                                                                                | <a href="http://www.wago.com/780-458">www.wago.com/780-458</a> |
| <b>Protective warning marker</b>                                                                                      |                                                                                                                                |                                                                |
| Cover                                                                                                                 |                                                                                                                                |                                                                |
| <b>Item no.: 280-415</b><br>Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow |                                                                                                                                | <a href="http://www.wago.com/280-415">www.wago.com/280-415</a> |
| <b>Ferrule</b>                                                                                                        |                                                                                                                                |                                                                |
| Ferrule                                                                                                               |                                                                                                                                |                                                                |
|                                        | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|                                        | <b>Item no.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-104">www.wago.com/216-104</a> |
|                                      | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |
|                                      | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                    | <a href="http://www.wago.com/216-103">www.wago.com/216-103</a> |
|                                      | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                 | <a href="http://www.wago.com/216-203">www.wago.com/216-203</a> |
|                                      | <b>Item no.: 216-206</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; blue              | <a href="http://www.wago.com/216-206">www.wago.com/216-206</a> |
|                                      | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray             | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|                                      | <b>Item no.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black             | <a href="http://www.wago.com/216-204">www.wago.com/216-204</a> |
|                                      | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white             | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|                                      | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow           | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|                                      | <b>Item no.: 216-302</b>                                                                                                       | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |

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

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise**Tool**

## Operating tool

**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Carrier rail**

## Mounting accessories

**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

[www.wago.com/210-197](http://www.wago.com/210-197)**Item no.: 210-198**

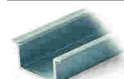
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

[www.wago.com/210-198](http://www.wago.com/210-198)**Item no.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

[www.wago.com/210-504](http://www.wago.com/210-504)**Item no.: 210-505**

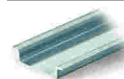
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

[www.wago.com/210-505](http://www.wago.com/210-505)**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

[www.wago.com/210-506](http://www.wago.com/210-506)**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

[www.wago.com/210-508](http://www.wago.com/210-508)**Item no.: 210-113**

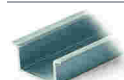
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-113](http://www.wago.com/210-113)**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-118](http://www.wago.com/210-118)**Item no.: 210-112**

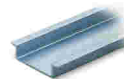
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

[www.wago.com/210-112](http://www.wago.com/210-112)**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-114](http://www.wago.com/210-114)**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

[www.wago.com/210-115](http://www.wago.com/210-115)**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-196](http://www.wago.com/210-196)**Mounting**

## Mounting accessories

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

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**Item no.: 209-106**

Mounting carrier; for isolated mounting on DIN 35 rails; gray

[www.wago.com/209-106](http://www.wago.com/209-106)



**Item no.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-116](http://www.wago.com/249-116)

## Insulation stop

Insulation stop



**Item no.: 769-470**

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white

[www.wago.com/769-470](http://www.wago.com/769-470)



**Item no.: 769-471**

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray

[www.wago.com/769-471](http://www.wago.com/769-471)



**Item no.: 769-472**

Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray

[www.wago.com/769-472](http://www.wago.com/769-472)

## Cover

Cover



**Item no.: 769-438**

Pin cover; with marker slot for miniature WSB; gray

[www.wago.com/769-438](http://www.wago.com/769-438)

**Item no.: 769-439**

Pin cover; with marker slot for miniature WSB; orange

[www.wago.com/769-439](http://www.wago.com/769-439)

## Push-in type wire jumper

Jumper



**Item no.: 249-123**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black

[www.wago.com/249-123](http://www.wago.com/249-123)



**Item no.: 249-126**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; black

[www.wago.com/249-126](http://www.wago.com/249-126)



**Item no.: 249-127**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black

[www.wago.com/249-127](http://www.wago.com/249-127)



**Item no.: 249-125**

Push-in type wire jumper; insulated; 60 mm long; black

[www.wago.com/249-125](http://www.wago.com/249-125)

## Coding

Coding



**Item no.: 769-435**

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

[www.wago.com/769-435](http://www.wago.com/769-435)

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

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## Downloads

### Documentation

#### Bid Text

|                                |              |               |          |
|--------------------------------|--------------|---------------|----------|
| 769-218/281-410<br>X81 - Datei | 2019. 2. 19. | xml<br>3.3 kB | Download |
|--------------------------------|--------------|---------------|----------|

|                                |              |                |          |
|--------------------------------|--------------|----------------|----------|
| 769-218/281-410<br>doc - Datei | 2017. 10. 2. | doc<br>25.6 kB | Download |
|--------------------------------|--------------|----------------|----------|

#### Additional Information

|                                             |  |               |          |
|---------------------------------------------|--|---------------|----------|
| Technical Section<br>Technical explanations |  | pdf<br>2.2 MB | Download |
|---------------------------------------------|--|---------------|----------|

## CAD/CAE-Data

### CAE data

|                                   |     |          |
|-----------------------------------|-----|----------|
| EPLAN Data Portal 769-218/281-410 | URL | Download |
|-----------------------------------|-----|----------|

|                                |     |          |
|--------------------------------|-----|----------|
| WSCAD Universe 769-218/281-410 | URL | Download |
|--------------------------------|-----|----------|

|                                |     |          |
|--------------------------------|-----|----------|
| WSCAD Universe 769-218/281-410 | URL | Download |
|--------------------------------|-----|----------|

|                              |     |          |
|------------------------------|-----|----------|
| ZUKEN Portal 769-218/281-410 | URL | Download |
|------------------------------|-----|----------|

|                                   |     |          |
|-----------------------------------|-----|----------|
| EPLAN Data Portal 769-218/281-410 | URL | Download |
|-----------------------------------|-----|----------|

### CAD data

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 769-218/281-410 | URL | Download |
|------------------------------|-----|----------|

## Environmental Product Compliance

### Compliance Search

|                                                                                                                                                                                                                                                                       |     |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 769-218/281-410<br>1-conductor/1-pin component carrier terminal block; with 2 jumper positions; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm <sup>2</sup> ; CAGE CLAMP®; 4,00 mm <sup>2</sup> ; gray | URL | Download |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|

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

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## Installation Notes

### Installation

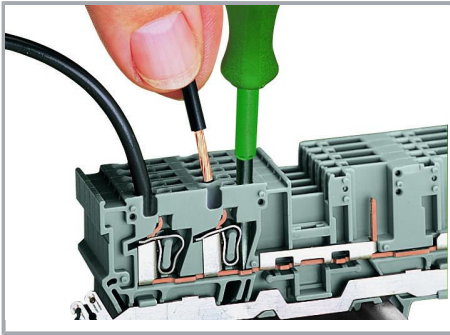


Snap individual carrier terminal blocks onto the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

### Conductor termination

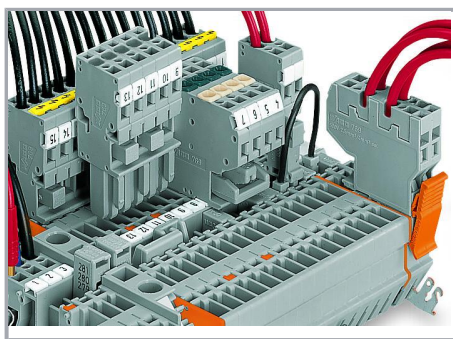


### CAGE CLAMP® connection

Carrier terminal block: Insert/remove conductor via operating tool (3.5 x 0.5 mm blade).

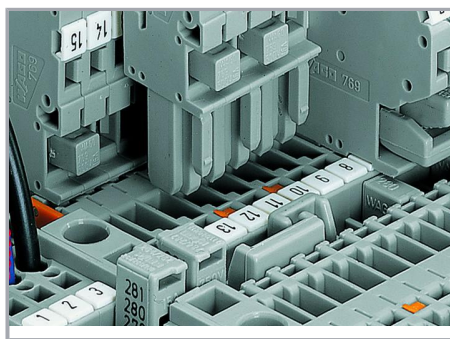
### Commoning

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

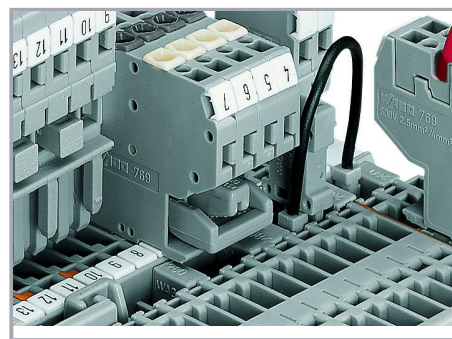


Commoning with adjacent or staggered jumpers.

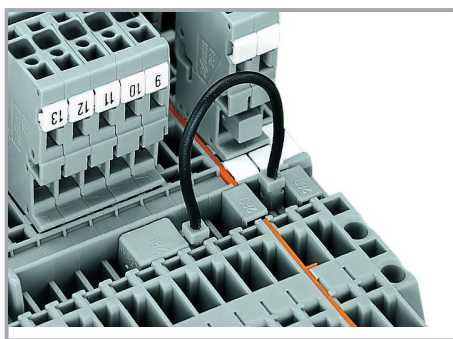
Push jumpers down until fully inserted.



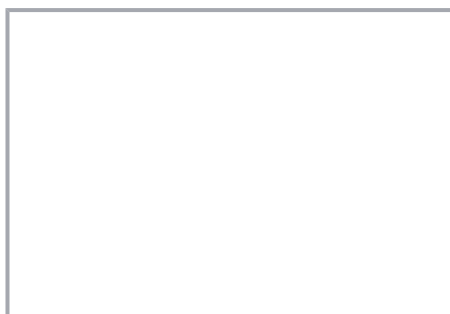
Commoning carrier terminal blocks via staggered jumpers.



Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.

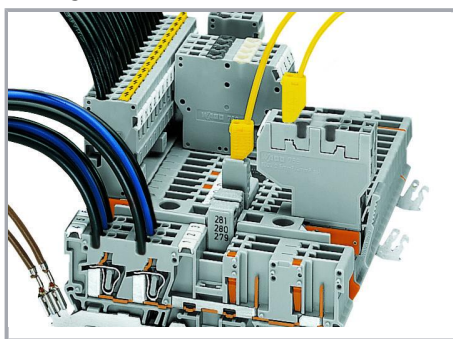


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

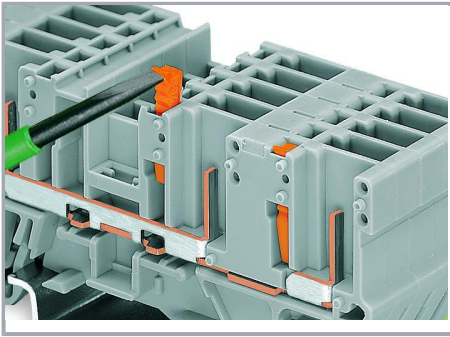
## Testing



Testing with a 2.3 mm Ø test plug (max. 42 V).

## Coding

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



Snap coding pin in proper direction on carrier terminal block.

Shown: Coding pin removal from carrier terminal block.

#### Locking system



Securing a female plug via locking lever on the terminal block side.

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

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2-conductor female plug



1-conductor/1-pin diode carrier terminal block with two jumper positions

Diode carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

2-conductor female plug

## Product family

**X-COM**

[Show all products from the family](#)

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

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