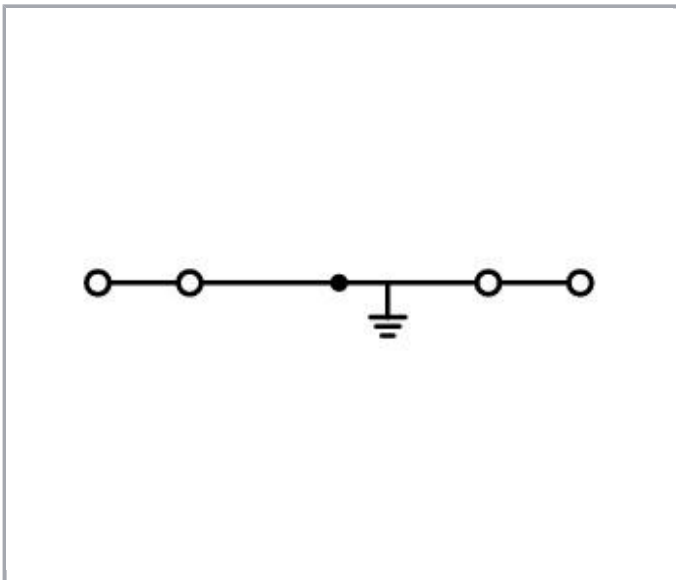
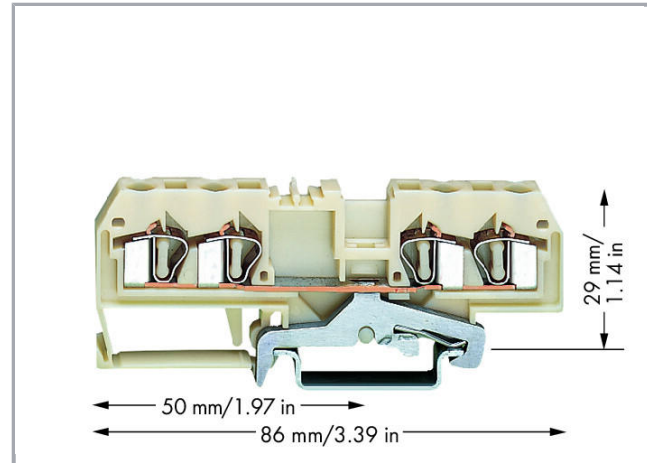
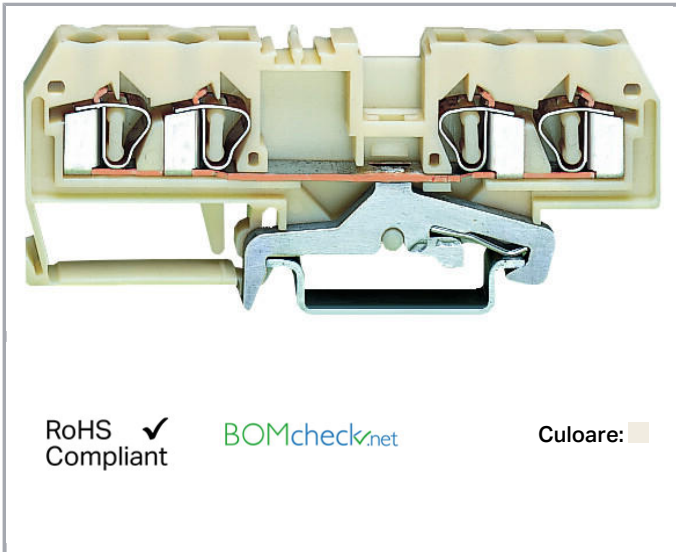


## Fișă tehnică | Număr articol: 281-658

4-conductor shield terminal block; 4 mm<sup>2</sup>; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 4,00 mm<sup>2</sup>; white

[www.wago.com/281-658](http://www.wago.com/281-658)



### Descriere articol

#### Note:

##### Terminating Aluminum Conductors

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm<sup>2</sup>/12 AWG if WAGO "Alu-Plus" Contact Paste is used for termination.

Supus modificărilor.

WAGO Kontakttechnik GmbH & Co. KG  
/Representative Office Romania  
Sos. Pipera-Tunari nr. 1/1  
building 1, 2nd floor | 077190 Voluntari, Ilfov  
Tel.: +40-(0)31 421 85 68 | Email: [info-RO@wago.com](mailto:info-RO@wago.com)

Aveți întrebări despre produsele noastre?

Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.



"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 CAGE CLAMP® 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 mm<sup>2</sup> = 16 A

4 mm<sup>2</sup> = 22 A

## Date

## Electrical data

### Ratings per IEC/EN 60664-1

|             |                  |
|-------------|------------------|
| Ratings per | IEC/EN 60947-7-2 |
|-------------|------------------|

### Connection data

|                                   |  |
|-----------------------------------|--|
| Connection technology             | CAGE CLAMP®                                |
| Actuation type                    | Operating tool                             |
| Connectable conductor materials   | Copper<br>Aluminum                         |
| 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                      | 9 ... 10 mm / 0.35 ... 0.39 inch           |
| Total number of connection points | 4  |
| Total number of potentials        | 1  |
| Number of levels                  | 1  |
| Wiring type                       | Front-entry wiring                         |

### Geometrical Data

|       |                   |
|-------|-------------------|
| Width | 6 mm / 0.236 inch |
|-------|-------------------|

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|                                    |                    |
|------------------------------------|--------------------|
| Height from upper-edge of DIN-rail | 29 mm / 1.142 inch |
| Depth                              | 86 mm / 3.386 inch |

### Mechanical data

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

### Material Data




|                     |                      |
|---------------------|----------------------|
| Color               | white                |
| Insulation material | Polyamide 66 (PA 66) |
| Fire load           | 0,189 MJ             |
| Weight              | 16,8 g               |

### Commercial data

|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4044918512022 |
| Customs tariff number | 85369010000   |

### Aprobări / certificate





#### Country specific Approvals

| Emblemă  | Aprobare                              | Text de aprobare suplimentar | Nume certificat |
|--|---------------------------------------|------------------------------|-----------------|
|  | CCA<br>DEKRA Certification B.V.       | EN 60947, IEC 60947          | NTR NL-7454/A1  |
|  | CSA<br>DEKRA Certification B.V.       | C22.2 No. 158                | 1505034         |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947                     | 71-107288       |


#### Ship Approvals

Nume

Supus modificărilor.

| Emblemă   | Aprobare  | Text de aprobare suplimentar | certificat               |
|---|---|------------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                            | 20-<br>HG1941090-<br>PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | EN 60947                     | 07436/E0 BV              |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                            | TAE00001V2               |
|  | <b>LR</b><br>Lloyds Register                            | EN 60947                     | 91/20112<br>(E9)         |

#### UL-Approvals

| Emblemă  | Aprobare                                   | Text de aprobare suplimentar | Nume certificat     |
|--|--|------------------------------|---------------------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                      | 20190731-<br>E45172 |

#### Counterpart

#### Produce compatibile

#### End plate

Nr. articol: 281-334

End and intermediate plate; 2.5 mm thick; gray







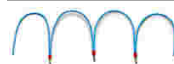

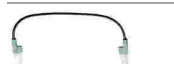
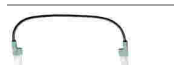
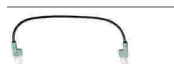






[www.wago.com/281-334](http://www.wago.com/281-334)

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/Representative Office Romania  
Sos. Pipera-Tunari nr. 1/1  
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Tel.: +40-(0)31 421 85 68 | Email: [info-RO@wago.com](mailto:info-RO@wago.com)

Aveți întrebări despre produsele noastre?  
Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.



|  |  |  |
|--|--|--|
|    | <b>Nr. articol: 281-335</b><br>End and intermediate plate; 2.5 mm thick; orange  | <a href="http://www.wago.com/281-335">www.wago.com/281-335</a> |
|    | <b>Nr. articol: 281-338</b><br>Separator plate; 2 mm thick; oversized; gray  | <a href="http://www.wago.com/281-338">www.wago.com/281-338</a> |
|    | <b>Nr. articol: 281-339</b><br>Separator plate; 2 mm thick; oversized; orange  | <a href="http://www.wago.com/281-339">www.wago.com/281-339</a> |
|    | <b>Nr. articol: 281-345</b><br>End and intermediate plate; 2.5 mm thick; light gray  | <a href="http://www.wago.com/281-345">www.wago.com/281-345</a> |
|    | <b>Nr. articol: 281-347</b><br>Separator plate; 2 mm thick; oversized; light gray  | <a href="http://www.wago.com/281-347">www.wago.com/281-347</a> |
| <b>Jumper</b>  |  |  |
|    | <b>Nr. articol: 210-103</b><br>Wire commoning chain; insulated; 50 connections; black  | <a href="http://www.wago.com/210-103">www.wago.com/210-103</a> |
|    | <b>Nr. articol: 210-123</b><br>Wire commoning chain; insulated; 50 connections   | <a href="http://www.wago.com/210-123">www.wago.com/210-123</a> |
|    | <b>Nr. articol: 249-123</b><br>Push-in type wire jumper; insulated; wire length 180 mm; Conductor cross section 0.75 mm <sup>2</sup> | <a href="http://www.wago.com/249-123">www.wago.com/249-123</a> |
|  | <b>Nr. articol: 249-125</b><br>Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 0.75 mm <sup>2</sup>  | <a href="http://www.wago.com/249-125">www.wago.com/249-125</a> |
|  | <b>Nr. articol: 249-126</b><br>Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 0.75 mm <sup>2</sup> | <a href="http://www.wago.com/249-126">www.wago.com/249-126</a> |
|  | <b>Nr. articol: 249-127</b><br>Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 0.75 mm <sup>2</sup> | <a href="http://www.wago.com/249-127">www.wago.com/249-127</a> |
|  | <b>Nr. articol: 281-402</b><br>Adjacent jumper; insulated; IN = IN terminal block; gray  | <a href="http://www.wago.com/281-402">www.wago.com/281-402</a> |
|  | <b>Nr. articol: 281-409</b><br>Alternate jumper; insulated; IN = IN terminal block; gray   | <a href="http://www.wago.com/281-409">www.wago.com/281-409</a> |
|  | <b>Nr. articol: 281-422</b><br>Adjacent jumper; insulated; IN = IN terminal block; yellow-green                                      | <a href="http://www.wago.com/281-422">www.wago.com/281-422</a> |
|  | <b>Nr. articol: 281-482</b><br>Comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray                                 | <a href="http://www.wago.com/281-482">www.wago.com/281-482</a> |
|  | <b>Nr. articol: 281-483</b><br>Comb-style jumper bar; insulated; 3-way; IN = IN terminal block; gray                                 | <a href="http://www.wago.com/281-483">www.wago.com/281-483</a> |
|  | <b>Nr. articol: 281-485</b><br>Comb-style jumper bar; insulated; 5-way; IN = IN terminal block; gray                                 | <a href="http://www.wago.com/281-485">www.wago.com/281-485</a> |

Supus modificărilor.



**Nr. articol: 281-490**  
Comb-style jumper bar; insulated; 10-way; IN = IN terminal block; gray

[www.wago.com/281-490](http://www.wago.com/281-490)



**Nr. articol: 281-492**  
Alternate comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray

[www.wago.com/281-492](http://www.wago.com/281-492)



**Nr. articol: 709-110**  
Wire commoning chain; insulated; 4 connections; 3 x 110 mm; black

[www.wago.com/709-110](http://www.wago.com/709-110)



**Nr. articol: 709-111**  
Wire commoning chain; insulated; 3 connections; 2 x 120 mm; black

[www.wago.com/709-111](http://www.wago.com/709-111)



**Nr. articol: 709-112**  
Wire commoning chain; insulated; 3 connections; 2 x 170 mm; black

[www.wago.com/709-112](http://www.wago.com/709-112)



**Nr. articol: 781-452**  
Staggered jumper; insulated; from 1 to 2; Spacing: 6 mm; gray

[www.wago.com/781-452](http://www.wago.com/781-452)



**Nr. articol: 781-453**  
Staggered jumper; insulated; from 1 to 3; Spacing: 6 mm; gray

[www.wago.com/781-453](http://www.wago.com/781-453)



**Nr. articol: 781-454**  
Staggered jumper; insulated; from 1 to 4; Spacing: 6 mm; gray

[www.wago.com/781-454](http://www.wago.com/781-454)



**Nr. articol: 781-455**  
Staggered jumper; insulated; from 1 to 5; Spacing: 6 mm; gray

[www.wago.com/781-455](http://www.wago.com/781-455)



**Nr. articol: 781-456**  
Staggered jumper; insulated; from 1 to 6; Spacing: 6 mm; gray

[www.wago.com/781-456](http://www.wago.com/781-456)

#### Protective Warning Marker



**Nr. articol: 281-415**  
Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

[www.wago.com/281-415](http://www.wago.com/281-415)

#### Marking accessories



**Nr. articol: 2009-115**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)



**Nr. articol: 2009-115/000-002**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)



**Nr. articol: 2009-115/000-006**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)



**Nr. articol: 2009-115/000-007**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
















[www.wago.com/2009-115/000-007](http://www.wago.com/2009-115/000-007)



**Nr. articol: 2009-115/000-012**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/2009-115/000-012](http://www.wago.com/2009-115/000-012)

Supus modificărilor.

|  |  |  |
|--|--|--|
|    | <b>Nr. articol: 2009-115/000-017</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green | <a href="http://www.wago.com/2009-115/000-017">www.wago.com/2009-115/000-017</a> |
|    | <b>Nr. articol: 2009-115/000-023</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green       | <a href="http://www.wago.com/2009-115/000-023">www.wago.com/2009-115/000-023</a> |
|    | <b>Nr. articol: 2009-115/000-024</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet      | <a href="http://www.wago.com/2009-115/000-024">www.wago.com/2009-115/000-024</a> |
|    | <b>Nr. articol: 209-140</b><br>Group marker carrier; gray  | <a href="http://www.wago.com/209-140">www.wago.com/209-140</a>                   |
|    | <b>Nr. articol: 209-141</b><br>Group marker carrier; gray  | <a href="http://www.wago.com/209-141">www.wago.com/209-141</a>                   |
|    | <b>Nr. articol: 209-142</b><br>Group marker carrier; gray  | <a href="http://www.wago.com/209-142">www.wago.com/209-142</a>                   |
|    | <b>Nr. articol: 209-185</b><br>Adaptor; gray   | <a href="http://www.wago.com/209-185">www.wago.com/209-185</a>                   |
|    | <b>Nr. articol: 249-105</b><br>Group marker carrier; gray  | <a href="http://www.wago.com/249-105">www.wago.com/249-105</a>                   |
|   | <b>Nr. articol: 793-501</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; white  | <a href="http://www.wago.com/793-501">www.wago.com/793-501</a>                   |
|  | <b>Nr. articol: 793-501/000-002</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; yellow                                       | <a href="http://www.wago.com/793-501/000-002">www.wago.com/793-501/000-002</a>   |
|  | <b>Nr. articol: 793-501/000-005</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; red  | <a href="http://www.wago.com/793-501/000-005">www.wago.com/793-501/000-005</a>   |
|  | <b>Nr. articol: 793-501/000-006</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; blue   | <a href="http://www.wago.com/793-501/000-006">www.wago.com/793-501/000-006</a>   |
|  | <b>Nr. articol: 793-501/000-007</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; gray   | <a href="http://www.wago.com/793-501/000-007">www.wago.com/793-501/000-007</a>   |
|  | <b>Nr. articol: 793-501/000-012</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; orange                                       | <a href="http://www.wago.com/793-501/000-012">www.wago.com/793-501/000-012</a>   |
|  | <b>Nr. articol: 793-501/000-017</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; light green                                  | <a href="http://www.wago.com/793-501/000-017">www.wago.com/793-501/000-017</a>   |

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**Nr. articol: 793-501/000-023**  
WMB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)



**Nr. articol: 793-501/000-024**  
WMB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)



**Nr. articol: 793-5501**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/793-5501](http://www.wago.com/793-5501)



**Nr. articol: 793-5501/000-002**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)



**Nr. articol: 793-5501/000-005**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)



**Nr. articol: 793-5501/000-006**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)



**Nr. articol: 793-5501/000-007**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)



**Nr. articol: 793-5501/000-012**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)



**Nr. articol: 793-5501/000-017**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

[www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)



**Nr. articol: 793-5501/000-023**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)



**Nr. articol: 793-5501/000-024**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)

#### ferrule



**Nr. articol: 216-106**  
Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; uninsulated; electro-tin plated

[www.wago.com/216-106](http://www.wago.com/216-106)



**Nr. articol: 216-201**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

[www.wago.com/216-201](http://www.wago.com/216-201)


















**Nr. articol: 216-202**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray


[www.wago.com/216-202](http://www.wago.com/216-202)

Supus modificărilor.



|  |   |  |
|--|---|--|
|     | <b>Nr. articol: 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>Nr. articol: 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>Nr. articol: 216-205</b><br>Ferrule; Sleeve for 2.08 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; yellow   | <a href="http://www.wago.com/216-205">www.wago.com/216-205</a> |
|     | <b>Nr. articol: 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>Nr. articol: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|     | <b>Nr. articol: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|     | <b>Nr. articol: 216-243</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|     | <b>Nr. articol: 216-244</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a> |
|     | <b>Nr. articol: 216-246</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue  | <a href="http://www.wago.com/216-246">www.wago.com/216-246</a> |
|  | <b>Nr. articol: 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>Nr. articol: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green  | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |
| <b>Insulation stop</b>   |   |  |
|  | <b>Nr. articol: 281-470</b><br>Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white   | <a href="http://www.wago.com/281-470">www.wago.com/281-470</a> |
|  | <b>Nr. articol: 281-471</b><br>Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray   | <a href="http://www.wago.com/281-471">www.wago.com/281-471</a> |
|  | <b>Nr. articol: 281-472</b><br>Insulation stop; 0.75 - 1.5 mm <sup>2</sup> ; 5 pieces/strip; dark gray  | <a href="http://www.wago.com/281-472">www.wago.com/281-472</a> |
| <b>assembling</b>  |   |  |
|  | <b>Nr. articol: 209-106</b><br>Mounting carrier; for isolated mounting on DIN 35 rails; gray  | <a href="http://www.wago.com/209-106">www.wago.com/209-106</a> |
|  | <b>Nr. articol: 709-153</b><br>Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent   | <a href="http://www.wago.com/709-153">www.wago.com/709-153</a> |
| <b>General accessories</b>   |   |  |




Supus modificărilor.

|   |   |  |
|---|---|--|
|  | <b>Nr. articol: 281-407</b><br>Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm <sup>2</sup> - 2.5 mm <sup>2</sup> ; 2,50 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/281-407">www.wago.com/281-407</a> |
|---|---|--|

**Carrier rail**

|  |   |  |
|--|---|--|
|    | <b>Nr. articol: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm   | <a href="http://www.wago.com/210-112">www.wago.com/210-112</a> |
|    | <b>Nr. articol: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                    | <a href="http://www.wago.com/210-113">www.wago.com/210-113</a> |
|    | <b>Nr. articol: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                     | <a href="http://www.wago.com/210-114">www.wago.com/210-114</a> |
|    | <b>Nr. articol: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm   | <a href="http://www.wago.com/210-115">www.wago.com/210-115</a> |
|    | <b>Nr. articol: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                   | <a href="http://www.wago.com/210-118">www.wago.com/210-118</a> |
|    | <b>Nr. articol: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | <a href="http://www.wago.com/210-196">www.wago.com/210-196</a> |
|    | <b>Nr. articol: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                       | <a href="http://www.wago.com/210-197">www.wago.com/210-197</a> |
|   | <b>Nr. articol: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored  | <a href="http://www.wago.com/210-198">www.wago.com/210-198</a> |
|  | <b>Nr. articol: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715          | <a href="http://www.wago.com/210-504">www.wago.com/210-504</a> |
|  | <b>Nr. articol: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715        | <a href="http://www.wago.com/210-505">www.wago.com/210-505</a> |
|  | <b>Nr. articol: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715         | <a href="http://www.wago.com/210-506">www.wago.com/210-506</a> |
|  | <b>Nr. articol: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715           | <a href="http://www.wago.com/210-508">www.wago.com/210-508</a> |

**tools**









|  |   |  |
|--|---|--|
|  | <b>Nr. articol: 210-657</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short         | <a href="http://www.wago.com/210-657">www.wago.com/210-657</a> |
|  | <b>Nr. articol: 210-658</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short | <a href="http://www.wago.com/210-658">www.wago.com/210-658</a> |
|  | <b>Nr. articol: 210-720</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft                | <a href="http://www.wago.com/210-720">www.wago.com/210-720</a> |

**check**

Supus modificărilor.

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Aveți întrebări despre produsele noastre?  
Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.

|   |  |  |
|---|--|--|
|  | <b>Nr. articol: 209-170</b><br>Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm <sup>2</sup> - 10 mm <sup>2</sup> tbs; gray                                | <a href="http://www.wago.com/209-170">www.wago.com/209-170</a> |
|  | <b>Nr. articol: 249-144</b><br>L-type test plug module; modular; with spring-loaded contact pin; Center module; 2,50 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/249-144">www.wago.com/249-144</a> |
|  | <b>Nr. articol: 249-146</b><br>L-type spacer module; modular; e.g., bridging commoned terminal blocks; gray  | <a href="http://www.wago.com/249-146">www.wago.com/249-146</a> |
|  | <b>Nr. articol: 249-147</b><br>B-type test plug module; modular; 2,50 mm <sup>2</sup> ; gray   | <a href="http://www.wago.com/249-147">www.wago.com/249-147</a> |
|  | <b>Nr. articol: 249-148</b><br>B-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray  | <a href="http://www.wago.com/249-148">www.wago.com/249-148</a> |
|  | <b>Nr. articol: 280-404</b><br>Test plug adapter; 5 mm wide; for test plug 210-137 (2.3 mm Ø); suitable for 1.5 mm <sup>2</sup> - 4 mm <sup>2</sup> tbs; gray                        | <a href="http://www.wago.com/280-404">www.wago.com/280-404</a> |
|  | <b>Nr. articol: 281-418</b><br>Test plug module; modular; suitable for all WAGO 281, 776, 777 and 781 series rail-mounted terminal blocks with jumper slots in the current bar; gray | <a href="http://www.wago.com/281-418">www.wago.com/281-418</a> |
|  | <b>Nr. articol: 281-419</b><br>Spacer module; modular; bridging commoned terminal blocks; gray   | <a href="http://www.wago.com/281-419">www.wago.com/281-419</a> |

## Descărcări

### Documentation

#### Additional Information

|                        |             |               |            |
|------------------------|-------------|---------------|------------|
| Technical explanations | Apr 3, 2019 | pdf<br>2,1 MB | Descărcare |
|------------------------|-------------|---------------|------------|

### CAD/CAE-Data

#### CAD data

|                      |     |            |
|----------------------|-----|------------|
| 2D/3D Models 281-658 | URL | Descărcare |
|----------------------|-----|------------|

#### CAE data

|                           |     |            |
|---------------------------|-----|------------|
| EPLAN Data Portal 281-658 | URL | Descărcare |
|---------------------------|-----|------------|

|                        |     |            |
|------------------------|-----|------------|
| WSCAD Universe 281-658 | URL | Descărcare |
|------------------------|-----|------------|

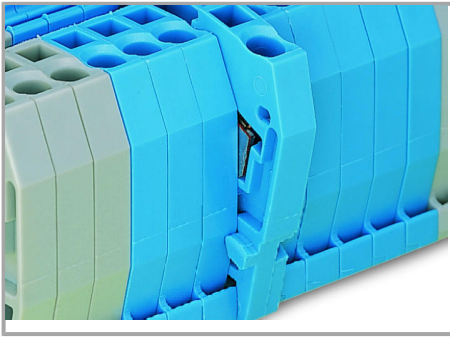
## Installation Notes

### Installation

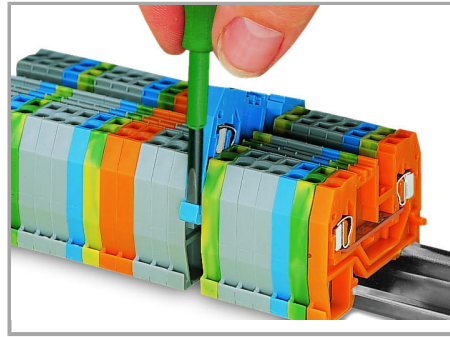
Supus modificărilor.

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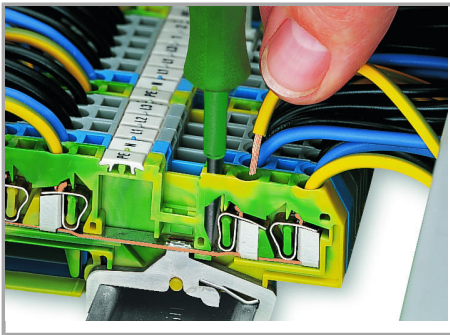


Quick assembly keys prevent reverse mounting.



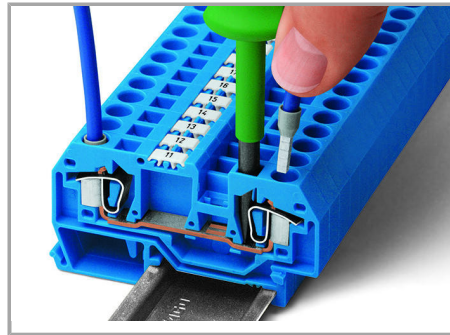
Removing a terminal block from the assembly.

#### Inserting a conductor



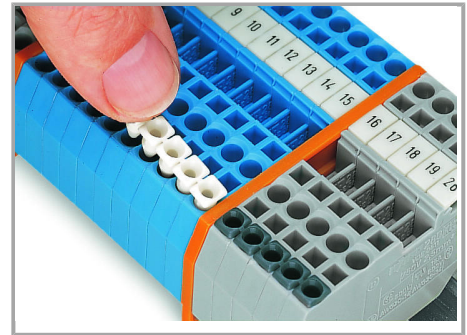
CAGE CLAMP® connection

Inserting a conductor.



CAGE CLAMP® connection

Inserting a conductor.

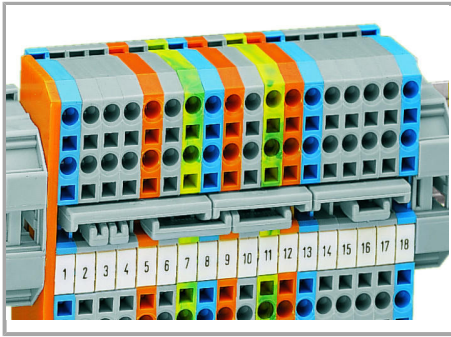


Inserting insulation stops.

With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.

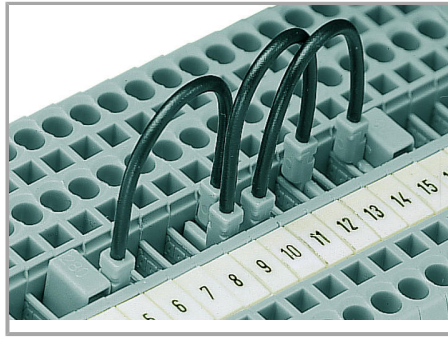
#### Jumpered

Supus modificărilor.



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

Supus modificărilor.



Supus modificărilor.

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Aveți întrebări despre produsele noastre?  
Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.



### Wire jumpers

When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touch-proof, push-in type wire jumpers are the ideal solution.

These jumpers are compatible with the following rail-mount terminal blocks:

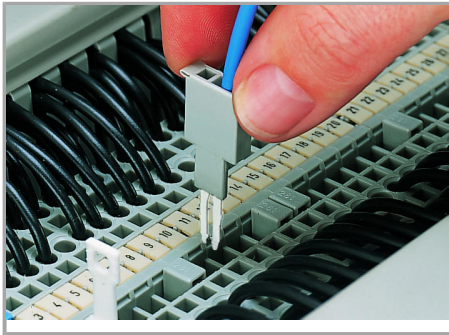
- 279 Series (1.5 mm<sup>2</sup>/16 AWG),
- 
- 280/775/780 Series (2.5 mm<sup>2</sup>/14 AWG)
- 
- 281/769/776/777/781 and 880 Series (4 mm<sup>2</sup>/12 AWG)
- 

They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on the right).

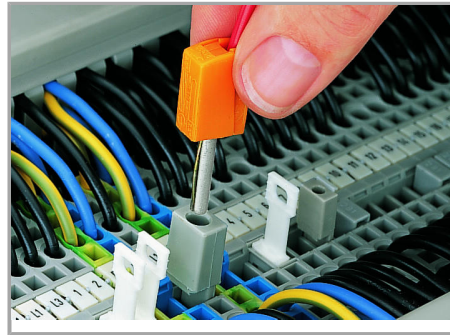
Compared with the 279 Series, the 280/775/780 and 281/776/777/781 Series can also accommodate two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal block.

### Testing

Supus modificărilor.



Testing with a test plug

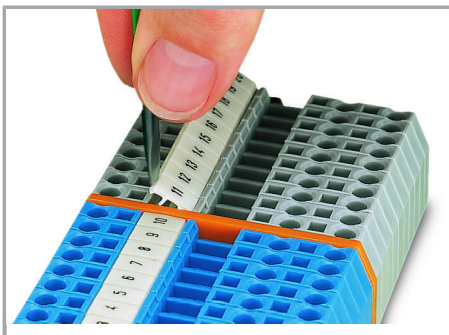


Testing with a test plug

(picture shows a test plug fitted with CAGE CLAMP®).

(picture shows 209-170 Test Plug Adapter).

### Marking



Marking via WMB Multi Marking System.

Supus modificărilor.