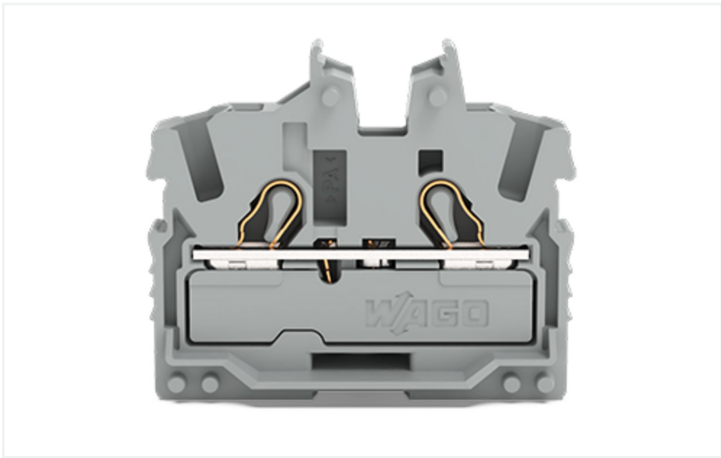


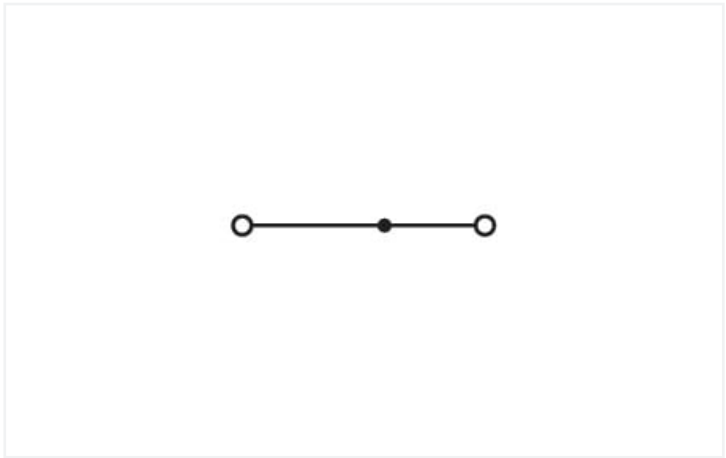
Data Sheet | Item Number: 2052-301

2-conductor miniature through terminal block; with operating slots; 2.5 mm²; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 2,50 mm²; gray

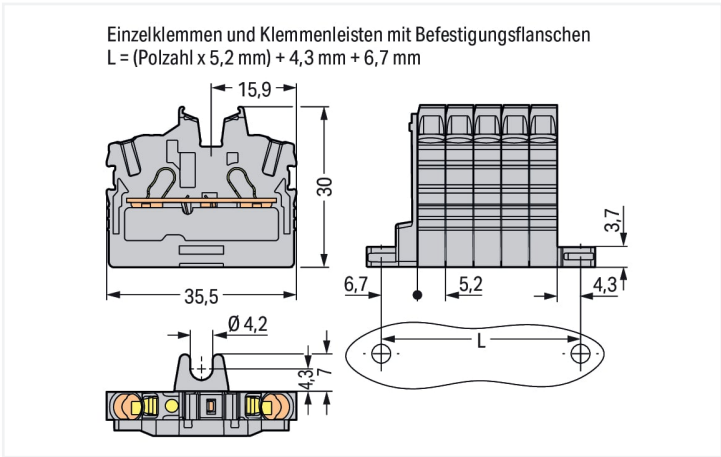
<https://www.wago.com/2052-301>



Color: ■ gray



Similar to illustration



Through terminal block, 2052 Series, gray

Our through terminal block (item number 2052-301) makes connecting wires quick and easy. Our mini rail-mount terminal blocks are the perfect choice when space is limited. A large selection of mounting and actuation variants means you can find a suitable mini terminal block for every purpose. This also means you can adapt the terminal blocks to your unique requirements. Our mini rail-mount terminal block is rated for 800 V and is designed for use with a rated current of up to 24 A. Ensure that the strip lengths are between 10 mm and 12 mm when connecting conductors to this through terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Depending on the conductor type, this through terminal block is designed for conductor cross sections ranging from 0.25 mm² to 4 mm². It has one level. You can connect a single potential using the two clamping points. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this mini rail-mount terminal block. Our TOPJOB® S rail-mount terminal blocks are perfect for many different industrial applications and modern building installations as they ensure secure electrical connections. You can work anywhere in the world and on any application with just a single rail-mount terminal block system. The front-entry wiring allows you to connect copper conductors. The one jumper slot enables potential distribution to other clamping points. This product is designed for specific Ex applications (please refer to the product datasheet).

| Electrical data                               |  |                  |     |    |               |       |         |
|-----------------------------------------------|--|------------------|-----|----|---------------|-------|---------|
| Ratings per                                   |  | IEC/EN 60998-2-2 |     |    | Approvals per |       | UL 1059 |
| Overvoltage category                          |  | III              | III | II | Use group     | B     | C D     |
| Pollution degree                              |  | 3                | 2   | 2  | Rated voltage | 600 V | 600 V - |
| Nominal voltage                               |  | 800 V            | -   | -  | Rated current | 20 A  | 20 A -  |
| Rated surge voltage                           |  | 8 kV             | -   | -  |               |       |         |
| Rated current                                 |  | 24 A             | -   | -  |               |       |         |
| Current at conductor cross-section (max.) mm² |  | 32 A             | -   | -  |               |       |         |



| Approvals per |  | CSA 22.2 No 158 |       |   |
|---------------|--|-----------------|-------|---|
| Use group     |  | B               | C     | D |
| Rated voltage |  | 600 V           | 600 V | - |
| Rated current |  | 20 A            | 20 A  | - |

| Ex information                      |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Reference hazardous areas           | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |
| Ratings per                         | ATEX: PTB 20 ATEX 1013 U / IECEx: PTB 20.0029U (Ex eb IIC Gb)                                       |
| Rated voltage EN (Ex e II)          | 550 V                                                                                               |
| Rated current (Ex e II)             | 22 A                                                                                                |
| Rated current (Ex e II) with jumper | 20 A                                                                                                |

| Power Loss                                                   |           |
|--------------------------------------------------------------|-----------|
| Power loss, per pole (potential)                             | 0.7661 W  |
| Rated current I <sub>N</sub> for specified power loss        | 24 A      |
| Resistance value for specified, current-dependent power loss | 0.00133 Ω |

| Connection data            |   |                                                            |                                                                                                                                   |
|----------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Clamping units             | 2 | <b>Connection 1</b>                                        |                                                                                                                                   |
| Total number of potentials | 1 | Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Number of levels           | 1 | Actuation type                                             | Operating tool                                                                                                                    |
| Number of jumper slots     | 1 | Connectable conductor materials                            | Copper                                                                                                                            |
|                            |   | Nominal cross-section                                      | 2.5 mm²                                                                                                                           |
|                            |   | Solid conductor                                            | 0.25 ... 4 mm² / 22 ... 12 AWG                                                                                                    |
|                            |   | Solid conductor; push-in termination                       | 1 ... 4 mm² / 18 ... 12 AWG                                                                                                       |
|                            |   | Fine-stranded conductor                                    | 0.25 ... 4 mm² / 22 ... 12 AWG                                                                                                    |
|                            |   | Fine-stranded conductor; with insulated ferrule            | 0.25 ... 2.5 mm² / 22 ... 14 AWG                                                                                                  |
|                            |   | Fine-stranded conductor; with ferrule; push-in termination | 1 ... 2.5 mm² / 18 ... 14 AWG                                                                                                     |
|                            |   | Note (conductor cross-section)                             | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
|                            |   | Strip length                                               | 10 ... 12 mm / 0.39 ... 0.47 inches                                                                                               |
|                            |   | Wiring direction                                           | Front-entry wiring                                                                                                                |

| Physical data           |                        |
|-------------------------|------------------------|
| Width                   | 5.2 mm / 0.205 inches  |
| Height from the surface | 30 mm / 1.181 inches   |
| Depth                   | 35.5 mm / 1.398 inches |

| Mechanical data |                     |
|-----------------|---------------------|
| Mounting type   | Mounting flange     |
| Marking level   | Center/side marking |



| 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               |                                                                          |
| Fire load                          | 0.096 MJ         |                                                                          |
| Weight                             | 4.4 g            |                                                                          |

| Environmental requirements       |                 |  |
|----------------------------------|-----------------|--|
| Processing temperature           | -35 ... +85 °C  |  |
| Continuous operating temperature | -60 ... +105 °C |  |

| Commercial data       |               |  |
|-----------------------|---------------|--|
| ETIM 9.0              | EC001284      |  |
| ETIM 8.0              | EC001284      |  |
| PU (SPU)              | 100 pcs       |  |
| Packaging type        | Box           |  |
| Country of origin     | IN            |  |
| GTIN                  | 4066966168778 |  |
| Customs tariff number | 85369010000   |  |

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

Approvals / Certificates

| General approvals                       |          |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|-----------------------------------------|----------|------------------|------------------------------------------------------------|----------|------------------|
|                                         |          |                  |                                                            |          |                  |
| Approval                                | Standard | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60998 | NTR NL 7885      | ATEX-Attestation of Con-<br>formity<br>WAGO GmbH & Co. KG  | -        | -                |
| CSA<br>DEKRA Certification B.V.         | C22.2    | 80058059         | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60998 | 71-119680        | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059  | E45172           |                                                            |          |                  |

| Approvals for hazardous areas                    |                |                                                                      | Approvals for hazardous areas                     |             |                                                        |
|--------------------------------------------------|----------------|----------------------------------------------------------------------|---------------------------------------------------|-------------|--------------------------------------------------------|
|                                                  |                |                                                                      |                                                   |             |                                                        |
| Approval                                         | Standard       | Certificate Name                                                     | Approval                                          | Standard    | Certificate Name                                       |
| AEx<br>Underwriters Laboratories<br>Inc.         | UL 60079       | E185892 (AEx eb IIC resp.<br>Ex eb IIC)                              | CCC<br>CQST/CNEx                                  | GB/T 3836.1 | 2022312313000512                                       |
| ATEX<br>Physikalisch Technische<br>Bundesanstalt | EN IEC 60079-0 | PTB 20 ATEX 1013 U (II 2<br>G Ex eb IIC Gb bzw. I M 2<br>Ex eb I Mb) | IECEX<br>Physikalisch Technische<br>Bundesanstalt | IEC 60079   | IECEX PTB 20.0029 U (Ex<br>eb IIC Gb resp. Ex eb I Mb) |
|                                                  |                |                                                                      | INMETRO<br>TÜV Rheinland do Brasil<br>Ltda.       | IEC 60079   | TÜV 22.0015 U                                          |



Downloads

Environmental Product Compliance

|                                           |  |  |
|-------------------------------------------|--|--|
| Compliance Search                         |  |  |
| Environmental Product Compliance 2052-301 |  |  |

Documentation

|                        |                   |  |
|------------------------|-------------------|--|
| Additional Information |                   |  |
| Technical Section      | pdf<br>2246.92 KB |  |

CAD/CAE-Data

|                       |  |  |
|-----------------------|--|--|
| CAD data              |  |  |
| 2D/3D Models 2052-301 |  |  |

|                            |  |  |
|----------------------------|--|--|
| CAE data                   |  |  |
| EPLAN Data Portal 2052-301 |  |  |
| ZUKEN Portal 2052-301      |  |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block



**Item No.: 2052-321**  
2-conductor miniature through terminal block; with operating slots; 2.5 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 2,50 mm²; gray

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



**Item No.: 2052-381**  
End plate; gray



| 1.3 Optional Accessories                                                                                                                                                                |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.3.1 Ferrule                                                                                                                                                                           |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.1.1 Ferrule                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
| <a href="#">Item No.: 216-241</a><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | <a href="#">Item No.: 216-242</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 | <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 | <a href="#">Item No.: 216-243</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    |
|                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
| <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     | <a href="#">Item No.: 216-244</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 | <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 | <a href="#">Item No.: 216-246</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 |
|                                                                                                        |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| <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  |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.2 Installation                                                                                                                                                                      |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.2.1 Mounting accessories                                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                      |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| <a href="#">Item No.: 209-137</a><br>Mounting adapter; can be used as end stop; 6.5 mm wide; gray                                                                                       |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.3 Insulation stop                                                                                                                                                                   |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.3.1 Insulation stop                                                                                                                                                                 |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                      |                                                                                                      |                                                                                                                                                                                         |                                                                                                                                                                                        |
| <a href="#">Item No.: 2002-171</a><br>Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray                                                                                       | <a href="#">Item No.: 2002-172</a><br>Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray                                                                                          |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.4 Jumper                                                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.3.4.1 Jumper                                                                                                                                                                          |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                      |                                                                                                      |                                                                                                     |                                                                                                   |
| <a href="#">Item No.: 2002-400</a><br>Continuous jumper; 2-way; insulated; light gray                                                                                                   | <a href="#">Item No.: 2002-413</a><br>Continuous jumper; 3-way; insulated; light gray                                                                                                   | <a href="#">Item No.: 2002-415</a><br>Continuous jumper; 5-way; insulated; light gray                                                                                                   | <a href="#">Item No.: 2002-423/000-006</a><br>Continuous jumper; from 1 to 3; insulated; blue                                                                                          |
|                                                                                                      |                                                                                                      |                                                                                                      |                                                                                                   |
| <a href="#">Item No.: 2002-423</a><br>Continuous jumper; from 1 to 3; insulated; light gray                                                                                             | <a href="#">Item No.: 2002-423/000-005</a><br>Continuous jumper; from 1 to 3; insulated; red                                                                                            | <a href="#">Item No.: 2002-424/000-006</a><br>Continuous jumper; from 1 to 4; insulated; blue                                                                                           | <a href="#">Item No.: 2002-424</a><br>Continuous jumper; from 1 to 4; insulated; light gray                                                                                            |



1.3.4.1 Jumper

|                                                                                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 2002-424/000-005</b><br>Continuous jumper; from 1 to 4; insulated; red                | <br><b>Item No.: 2002-406/020-000</b><br>Delta jumper; insulated; light gray               | <br><b>Item No.: 2002-410/000-006</b><br>Jumper; 10-way; insulated; blue           | <br><b>Item No.: 2002-410</b><br>Jumper; 10-way; insulated; light gray                    |
| <br><b>Item No.: 2002-410/000-005</b><br>Jumper; 10-way; insulated; red                                | <br><b>Item No.: 2002-402/000-006</b><br>Jumper; 2-way; insulated; blue                    | <br><b>Item No.: 2002-402</b><br>Jumper; 2-way; insulated; light gray               | <br><b>Item No.: 2002-402/000-005</b><br>Jumper; 2-way; insulated; red                    |
| <br><b>Item No.: 2002-403/000-006</b><br>Jumper; 3-way; insulated; blue                                | <br><b>Item No.: 2002-403</b><br>Jumper; 3-way; insulated; light gray                      | <br><b>Item No.: 2002-403/000-005</b><br>Jumper; 3-way; insulated; red              | <br><b>Item No.: 2002-404/000-006</b><br>Jumper; 4-way; insulated; blue                   |
| <br><b>Item No.: 2002-404</b><br>Jumper; 4-way; insulated; light gray                                  | <br><b>Item No.: 2002-404/000-005</b><br>Jumper; 4-way; insulated; red                     | <br><b>Item No.: 2002-405/000-006</b><br>Jumper; 5-way; insulated; blue            | <br><b>Item No.: 2002-405</b><br>Jumper; 5-way; insulated; light gray                     |
| <br><b>Item No.: 2002-405/000-005</b><br>Jumper; 5-way; insulated; red                                 | <br><b>Item No.: 2002-406/000-006</b><br>Jumper; 6-way; insulated; blue                    | <br><b>Item No.: 2002-406</b><br>Jumper; 6-way; insulated; light gray              | <br><b>Item No.: 2002-406/000-005</b><br>Jumper; 6-way; insulated; red                    |
| <br><b>Item No.: 2002-407/000-006</b><br>Jumper; 7-way; insulated; blue                                | <br><b>Item No.: 2002-407</b><br>Jumper; 7-way; insulated; light gray                      | <br><b>Item No.: 2002-407/000-005</b><br>Jumper; 7-way; insulated; red             | <br><b>Item No.: 2002-408/000-006</b><br>Jumper; 8-way; insulated; blue                   |
| <br><b>Item No.: 2002-408</b><br>Jumper; 8-way; insulated; light gray                                  | <br><b>Item No.: 2002-408/000-005</b><br>Jumper; 8-way; insulated; red                     | <br><b>Item No.: 2002-409/000-006</b><br>Jumper; 9-way; insulated; blue            | <br><b>Item No.: 2002-409</b><br>Jumper; 9-way; insulated; light gray                     |
| <br><b>Item No.: 2002-409/000-005</b><br>Jumper; 9-way; insulated; red                               | <br><b>Item No.: 2002-440</b><br>Jumper; from 1 to 10; insulated; light gray             | <br><b>Item No.: 2002-433</b><br>Jumper; from 1 to 3; insulated; light gray       | <br><b>Item No.: 2002-434</b><br>Jumper; from 1 to 4; insulated; light gray             |
| <br><b>Item No.: 2002-435</b><br>Jumper; from 1 to 5; insulated; light gray                          | <br><b>Item No.: 2002-436</b><br>Jumper; from 1 to 6; insulated; light gray              | <br><b>Item No.: 2002-437</b><br>Jumper; from 1 to 7; insulated; light gray       | <br><b>Item No.: 2002-438</b><br>Jumper; from 1 to 8; insulated; light gray             |
| <br><b>Item No.: 2002-439</b><br>Jumper; from 1 to 9; insulated; light gray                          | <br><b>Item No.: 2002-480</b><br>Staggered jumper; 10-way; insulated; light gray         | <br><b>Item No.: 2002-481</b><br>Staggered jumper; 11-way; insulated; light gray | <br><b>Item No.: 2002-482</b><br>Staggered jumper; 12-way; insulated; light gray        |
| <br><b>Item No.: 2002-473/011-000</b><br>Staggered jumper; 2-way; from 1 to 3; insulated; light gray | <br><b>Item No.: 2002-472</b><br>Staggered jumper; 2-way; insulated; light gray          | <br><b>Item No.: 2002-473</b><br>Staggered jumper; 3-way; insulated; light gray   | <br><b>Item No.: 2002-475/011-000</b><br>Staggered jumper; 3-way; insulated; light gray |
| <br><b>Item No.: 2002-474</b><br>Staggered jumper; 4-way; insulated; light gray                      | <br><b>Item No.: 2002-475</b><br>Staggered jumper; 5-way; insulated; light gray          | <br><b>Item No.: 2002-476</b><br>Staggered jumper; 6-way; insulated; light gray  | <br><b>Item No.: 2002-477</b><br>Staggered jumper; 7-way; insulated; light gray         |
| <br><b>Item No.: 2002-478</b><br>Staggered jumper; 8-way; insulated; light gray                      | <br><b>Item No.: 2002-479</b><br>Staggered jumper; 9-way; insulated; light gray          | <br><b>Item No.: 2002-477/011-000</b><br>Staggered jumper; insulated; light gray | <br><b>Item No.: 2002-479/011-000</b><br>Staggered jumper; insulated; light gray        |
| <br><b>Item No.: 2002-481/011-000</b><br>Staggered jumper; insulated; light gray                     | <br><b>Item No.: 2002-405/011-000</b><br>Star point jumper; 3-way; insulated; light gray | <br><b>Item No.: 210-103</b><br>Wire commoning chain; insulated; black           | <br><b>Item No.: 210-123</b><br>Wire commoning chain; insulated; blue                   |



| 1.3.5 Marking                                                                                                                                                      |                                                                                                                                                                         |                                                                                                                                                                    |                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.3.5.1 Group marker carrier                                                                                                                                       |                                                                                                                                                                         |                                                                                                                                                                    |                                                                                                                                                                  |
|                                                                                   |                                                                                        |                                                                                   |                                                                                                                                                                  |
| <a href="#">Item No.: 2009-191</a><br>Group marker carrier; gray                                                                                                   | <a href="#">Item No.: 2009-192</a><br>Group marker carrier; gray                                                                                                        | <a href="#">Item No.: 2009-193</a><br>Group marker carrier; gray                                                                                                   |                                                                                                                                                                  |
| 1.3.5.2 Marker                                                                                                                                                     |                                                                                                                                                                         |                                                                                                                                                                    |                                                                                                                                                                  |
|                                                                                   |                                                                                        |                                                                                  |                                                                               |
| <a href="#">Item No.: 2009-145/000-006</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue           | <a href="#">Item No.: 2009-145/000-007</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray                | <a href="#">Item No.: 2009-145/000-023</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green          | <a href="#">Item No.: 2009-145/000-012</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange       |
|                                                                                   |                                                                                        |                                                                                  |                                                                               |
| <a href="#">Item No.: 2009-145/000-005</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red            | <a href="#">Item No.: 2009-145/000-024</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet              | <a href="#">Item No.: 2009-145</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white                  | <a href="#">Item No.: 2009-145/000-002</a><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow       |
|                                                                                   |                                                                                        |                                                                                  |                                                                               |
| <a href="#">Item No.: 248-501/000-006</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue                                            | <a href="#">Item No.: 248-501/000-007</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray                                                 | <a href="#">Item No.: 248-501/000-023</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green                                           | <a href="#">Item No.: 248-501/000-017</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green                                   |
|                                                                                  |                                                                                       |                                                                                 |                                                                              |
| <a href="#">Item No.: 248-501/000-012</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange                                          | <a href="#">Item No.: 248-501/000-005</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red                                                  | <a href="#">Item No.: 248-501/000-024</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet                                          | <a href="#">Item No.: 248-501</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                                                 |
|                                                                                 |                                                                                      |                                                                                |                                                                             |
| <a href="#">Item No.: 248-501/000-002</a><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                                          | <a href="#">Item No.: 793-5501/000-006</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue        | <a href="#">Item No.: 793-5501/000-014</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown  | <a href="#">Item No.: 793-5501/000-007</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray |
|                                                                                 |                                                                                      |                                                                                |                                                                             |
| <a href="#">Item No.: 793-5501/000-023</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green  | <a href="#">Item No.: 793-5501/000-017</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green | <a href="#">Item No.: 793-5501/000-012</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <a href="#">Item No.: 793-5501/000-005</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red  |
|                                                                                 |                                                                                      |                                                                                |                                                                             |
| <a href="#">Item No.: 793-5501/000-024</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <a href="#">Item No.: 793-5501</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white               | <a href="#">Item No.: 793-5501/000-002</a><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <a href="#">Item No.: 2009-115/000-006</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue              |
|                                                                                 |                                                                                      |                                                                                |                                                                             |
| <a href="#">Item No.: 2009-115/000-007</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray                | <a href="#">Item No.: 2009-115/000-023</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green                    | <a href="#">Item No.: 2009-115/000-017</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green         | <a href="#">Item No.: 2009-115/000-012</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange            |
|                                                                                 |                                                                                      |                                                                                |                                                                             |
| <a href="#">Item No.: 2009-115/000-005</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red                 | <a href="#">Item No.: 2009-115/000-024</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet                   | <a href="#">Item No.: 2009-115</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white                       | <a href="#">Item No.: 2009-115/000-002</a><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow            |



1.3.5.3 Marker carrier



[Item No.: 2002-161](#)  
Adaptor; gray

[Item No.: 2009-198](#)  
Adaptor; gray

1.3.5.4 Marking strip



[Item No.: 2009-110](#)  
Marking strips; for Smart Printer; on reel;  
not stretchable; plain; snap-on type; white

1.3.6 Protective warning marker

1.3.6.1 Cover



[Item No.: 2002-115](#)  
Protective warning marker; for 5 terminal  
blocks; with high-voltage symbol, black;  
yellow

1.3.7 Push-in type wire jumper

1.3.7.1 Jumper



[Item No.: 2009-414](#)  
Push-in type wire jumper; 1.5 mm²; insu-  
lated; 110 mm long; black



[Item No.: 2009-414/000-005](#)  
Push-in type wire jumper; 1.5 mm²; insu-  
lated; 110 mm long; black



[Item No.: 2009-416](#)  
Push-in type wire jumper; 1.5 mm²; insu-  
lated; 250 mm long; black



[Item No.: 2009-414/000-006](#)  
Push-in type wire jumper; insulated; 110  
mm long; black



[Item No.: 2009-412](#)  
Push-in type wire jumper; insulated; 60  
mm long; black

1.3.8 Test and measurement

1.3.8.1 Testing accessories



[Item No.: 2009-174](#)  
Test plug adapter; for 4 mm Ø test plugs;  
for testing TOPJOB®S rail-mounted termi-  
nal blocks; gray



[Item No.: 210-136](#)  
Test plug; 2 mm Ø; with 500 mm cable;  
red



[Item No.: 2009-182](#)  
Testing tap; for max. 2.5 mm²; tool-free  
connection for individual test wires 0.08 -  
2.5 mm; gray



[Item No.: 2002-649](#)  
TOPJOB®S L-type spacer module; modu-  
lar; e.g., for bridging commoned terminal  
blocks; gray



[Item No.: 2002-611](#)  
TOPJOB®S L-type test plug module; mo-  
dular; 1-pole; 2,50 mm²; gray



1.3.9 Tool

1.3.9.1 Operating tool



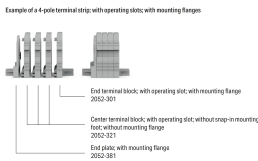
**Item No.: 210-658**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation



Conductor termination



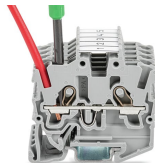
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.

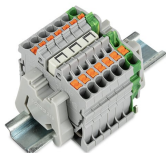


Insert fine-stranded conductors via operating tool.

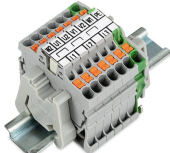


Remove all conductors via operating tool.

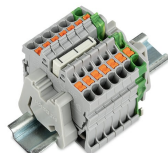
Commoning



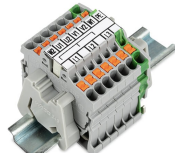
Insert a delta jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (delta jumper) (example shows terminal blocks with push-buttons)



Insert a star point jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



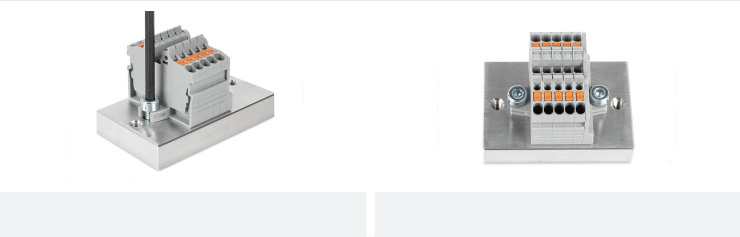
Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing



Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

Installation



Marking

