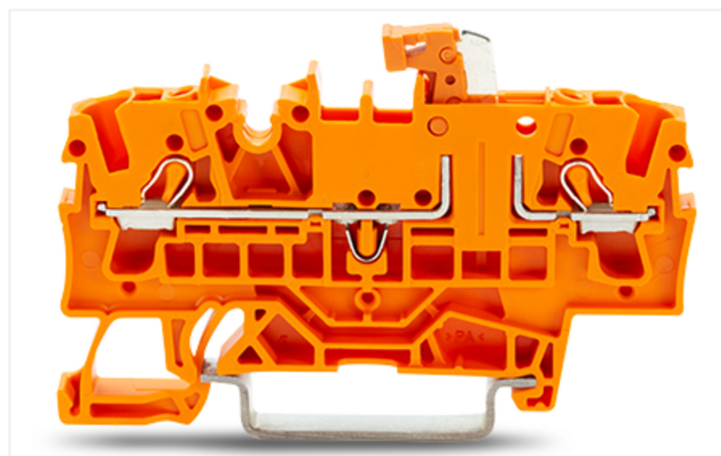
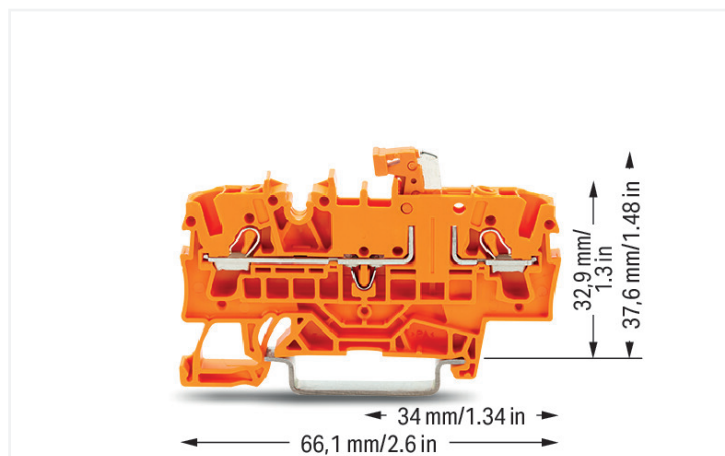


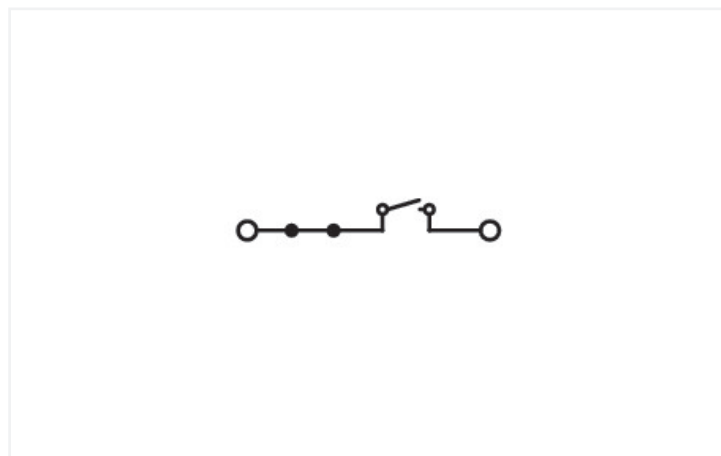
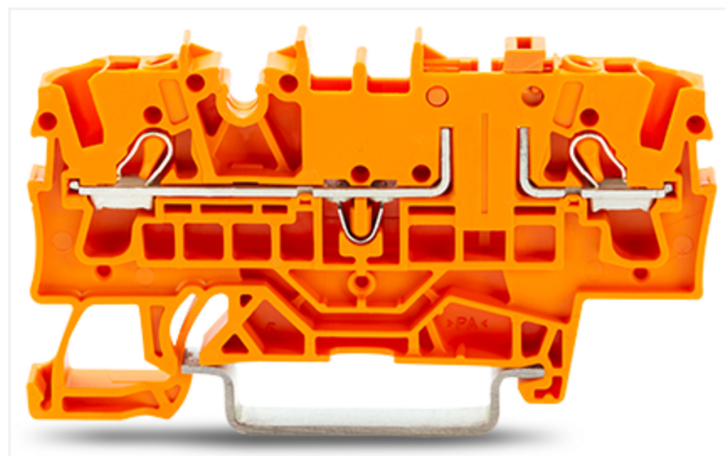
## Data Sheet | Item Number: 2002-1672

2-conductor disconnect/test terminal block; with test option; orange disconnect link; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; Push-in CAGE CLAMP®; 2,50 mm<sup>2</sup>; orange

<https://www.wago.com/2002-1672>



Color: ■ orange



Similar to illustration

Disconnect terminal block, 2002 Series, orange

Easily, quickly and safely connect conductors with this disconnect terminal block (item number 2002-1672). Strip lengths must be between 10 and 12 mm when connecting conductors to this disconnect terminal block. Featuring conductor terminals along with Push-in CAGE CLAMP®, this connector outperforms the competition. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. This disconnect terminal block is suitable for conductor cross sections ranging from 0.25 mm<sup>2</sup> to 4 mm<sup>2</sup>.

This product is designed for specific Ex applications (please refer to the product datasheet).



| Notes              |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Safety Information | The 2 mm test slot is only approved for high impedance measurement up to max. 100 mA. |

Electrical data

| Ratings per                     |       | IEC/EN 60947-7-1 |    |
|---------------------------------|-------|------------------|----|
| Overvoltage category            | III   | III              | II |
| Pollution degree                | 3     | 2                | 2  |
| Nominal voltage                 | 400 V | -                | -  |
| Rated impulse withstand voltage | 6 kV  | -                | -  |
| Rated current                   | 16 A  | -                | -  |

| Approvals per |       | UL 1059 |   |
|---------------|-------|---------|---|
| Use group     | B     | C       | D |
| Rated voltage | 300 V | 300 V   | - |
| Rated current | 15 A  | 15 A    | - |

| Approvals per |       | CSA 22.2 No 158 |   |
|---------------|-------|-----------------|---|
| Use group     | B     | C               | D |
| Rated voltage | 300 V | 300 V           | - |
| Rated current | 10 A  | 10 A            | - |

| Ex information               |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Reference to hazardous areas | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |
| Ratings per                  | ATEX: KIWA 17 ATEX 0030 U / IECEx: KI-WA 17.0014U (Ex ec IIC Gc)                                    |
| Rated voltage EN (Ex e II)   | 440 V                                                                                               |
| Rated current (Ex e II)      | 17 A                                                                                                |

| Power Loss                                                   |           |
|--------------------------------------------------------------|-----------|
| Power loss, per pole (potential)                             | 0.3405 W  |
| Rated current I <sub>N</sub> for power loss specification    | 16 A      |
| Resistance value for specified, current-dependent power loss | 0.00133 Ω |

| General information |                    |
|---------------------|--------------------|
| Wiring direction    | Front-entry wiring |

Connection data

|                            |   |
|----------------------------|---|
| Clamping units             | 2 |
| Total number of potentials | 2 |
| Number of levels           | 1 |
| Number of jumper slots     | 2 |

| Connection 1                                               |                                                                                                                                   |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Actuation type                                             | Operating tool                                                                                                                    |
| Connectable conductor materials                            | Copper                                                                                                                            |
| Nominal cross-section                                      | 2.5 mm²                                                                                                                           |
| Solid conductor                                            | 0.25 ... 4 mm² / 22 ... 12 AWG                                                                                                    |
| Solid conductor; push-in termination                       | 0.75 ... 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                            | 66.1 mm / 2.602 inches |
| Depth from upper-edge of DIN-rail | 32.9 mm / 1.295 inches |

| Mechanical data |                     |
|-----------------|---------------------|
| Mounting type   | DIN-35 rail         |
| Marking level   | Center/side marking |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | orange                                                                   |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Fire load                          | 0.162 MJ                                                                 |
| Weight                             | 7.4 g                                                                    |

| Environmental requirements                                                                          |                                                     |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Processing temperature                                                                              | -35 ... +85 °C                                      |
| Continuous operating temperature                                                                    | -60 ... +105 °C                                     |
| Environmental Testing                                                                               |                                                     |
| Test specification:<br>Railway applications –<br>Rolling stock –<br>Electronic equipment            | DIN EN 50155 (VDE 0115-200):2022-06                 |
| Test procedure:<br>Railway applications –<br>Rolling stock equipment –<br>Vibration and shock tests | DIN EN 61373 (VDE 0115-0106):2011-04                |
| Spectrum/Mounting location                                                                          | Service life test, Category 1, Class A/B            |
| Functional test with noise-like oscillations                                                        | Test passed according to Section 8 of the standard  |
| Frequency                                                                                           | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
| Acceleration                                                                                        | 0.101g (highest test level used for all axes)       |
| Test duration per axis                                                                              | 10 min.                                             |
| Test directions                                                                                     | X, Y and Z axes                                     |
| Monitoring of contact faults and interruptions                                                      | Passed                                              |
| Voltage drop measurement before and after each axis                                                 | Passed                                              |
| Simulated service life test through increased levels of noise-like oscillations                     | Test passed according to Section 9 of the standard  |
| Frequency                                                                                           | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
| Acceleration                                                                                        | 0.572g (highest test level used for all axes)       |
| Test duration per axis                                                                              | 5 h                                                 |
| Test directions                                                                                     | X, Y and Z axes                                     |
| Extended testing: Monitoring of contact faults and interruptions                                    | Passed                                              |
| Extended testing: Voltage drop measurement before and after each axis                               | Passed                                              |
| Shock test                                                                                          | Test passed according to Section 10 of the standard |
| Shock pulse form                                                                                    | Half sine                                           |
| Acceleration                                                                                        | 5g (highest test level used for all axes)           |
| Shock duration                                                                                      | 30 ms                                               |
| Number of shocks (per axis)                                                                         | 3 pos. und 3 neg.                                   |
| Test directions                                                                                     | X, Y and Z axes                                     |



| Environmental Testing                                                 |        |  |
|-----------------------------------------------------------------------|--------|--|
| Extended testing: Monitoring of contact faults and interruptions      | Passed |  |
| Extended testing: Voltage drop measurement before and after each axis | Passed |  |
| Vibration and shock stress for rolling stock equipment                | Passed |  |

| Commercial data       |               |  |
|-----------------------|---------------|--|
| Product Group         | 22 (TOPJOB S) |  |
| PU (SPU)              | 50 pcs        |  |
| Packaging type        | Box           |  |
| Country of origin     | CN            |  |
| GTIN                  | 4055143874557 |  |
| Customs tariff number | 85365080000   |  |

| Product Classification |                      |  |
|------------------------|----------------------|--|
| UNSPSC                 | 39121410             |  |
| eCl@ss 10.0            | 27-14-11-26          |  |
| eCl@ss 9.0             | 27-14-11-26          |  |
| ETIM 9.0               | EC000902             |  |
| ETIM 10.0              | EC000902             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

Approvals / Certificates

General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CCA<br>DEKRA Certification B.V.       | EN 60947      | NTR NL-8054      |
| CSA<br>CSA Group                      | C22.2 No. 158 | 154112           |
| DEKRA<br>DEKRA Certification B.V.     | EN 60947      | 71-149763        |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947      | 71-124163        |
| UL<br>Underwriters Laboratories Inc.  | UL 1059       | E45172           |

Declarations of conformity and manufacturer's declarations



| Approval                                             | Standard | Certificate Name |
|------------------------------------------------------|----------|------------------|
| ATEX-Attestation of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| ATEX-Attestation of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG   | -        | -                |
| Railway<br>WAGO GmbH & Co. KG                        | -        | Railway Ready    |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG   | -        | -                |



Approvals for marine applications



| Approval                                              | Standard | Certificate Name  |
|-------------------------------------------------------|----------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping               | EN 60947 | 24-0152298-PDA    |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -        | TAE00001V2        |
| PRS<br>Polski Rejestr Statków                         | -        | TE/1094/880590/23 |

Approvals for hazardous areas



| Approval                                 | Standard    | Certificate Name                        |
|------------------------------------------|-------------|-----------------------------------------|
| AEx<br>Underwriters Laboratories<br>Inc. | UL 60079    | E185892 (AEx eb IIC resp.<br>Ex eb IIC) |
| ATEX<br>KIWA Netherlands B.V.            | EN 60079    | KIWA 17ATEX0030 U                       |
| CCC<br>CNEX                              | GB/T 3836.3 | 2020312313000180 (Ex<br>ec IIC Gc)      |
| IECEx<br>KIWA Netherlands B.V.           | EN 60079    | IECEx KIWA 17.0014U (Ex<br>ec IIC Gc)   |

Downloads

Environmental Product Compliance

| Compliance Search                             |
|-----------------------------------------------|
| Environmental Product<br>Compliance 2002-1672 |



Documentation

| Bid Text  |            |                  |                                                                                                     |
|-----------|------------|------------------|-----------------------------------------------------------------------------------------------------|
| 2002-1672 | 29.04.2019 | xml<br>3.98 KB   | <a href="#"></a> |
| 2002-1672 | 23.04.2019 | docx<br>15.34 KB | <a href="#"></a> |



CAD/CAE-Data

| CAD data                  |
|---------------------------|
| 2D/3D Models<br>2002-1672 |



| CAE data                       |
|--------------------------------|
| EPLAN Data Portal<br>2002-1672 |
| WSCAD Universe<br>2002-1672    |
| ZUKEN Portal<br>2002-1672      |



| 1 Compatible Products                                                                                                                                                                   |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1 Required Accessories                                                                                                                                                                |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.1.1 End plate                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.1.1.1 End plate                                                                                                                                                                       |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                        |                                                                                                        |                                                                                                                                                                                         |                                                                                                                                                                                        |
| <a href="#">Item No.: 2002-1691</a><br>End and intermediate plate; 1 mm thick; gray                                                                                                     | <a href="#">Item No.: 2002-1692</a><br>End and intermediate plate; 1 mm thick; orange                                                                                                   |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.2 Optional Accessories                                                                                                                                                                |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.2.1 DIN-rail                                                                                                                                                                          |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.2.1.1 Mounting accessories                                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
|                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                     |
| <a href="#">Item No.: 210-196</a><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="#">Item No.: 210-198</a><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored                                          | <a href="#">Item No.: 210-508</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored                                   | <a href="#">Item No.: 210-197</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored                                              |
|                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                     |
| <a href="#">Item No.: 210-506</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored                                 | <a href="#">Item No.: 210-114</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored                                             | <a href="#">Item No.: 210-118</a><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored                                           | <a href="#">Item No.: 210-115</a><br>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                          |
|                                                                                                      |                                                                                                      |                                                                                                     |                                                                                                   |
| <a href="#">Item No.: 210-112</a><br>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                           | <a href="#">Item No.: 210-504</a><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored                                  | <a href="#">Item No.: 210-113</a><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored                                            | <a href="#">Item No.: 210-505</a><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored                               |
|                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.2.2 Ferrule                                                                                                                                                                           |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |
| 1.2.2.1 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  |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                        |



1.2.3 Installation

1.2.3.1 Cover



**Item No.: 709-156**  
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.3.2 Cover carrier



**Item No.: 709-169**  
Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.4 Insulation stop

1.2.4.1 Insulation stop



**Item No.: 2002-171**  
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray



**Item No.: 2002-172**  
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.2.5 Jumper

1.2.5.1 Jumper



**Item No.: 2002-400**  
Continuous jumper; 2-way; insulated; light gray



**Item No.: 2002-413**  
Continuous jumper; 3-way; insulated; light gray



**Item No.: 2002-415**  
Continuous jumper; 5-way; insulated; light gray



**Item No.: 2002-423/000-006**  
Continuous jumper; from 1 to 3; insulated; blue



**Item No.: 2002-423**  
Continuous jumper; from 1 to 3; insulated; light gray



**Item No.: 2002-423/000-005**  
Continuous jumper; from 1 to 3; insulated; red



**Item No.: 2002-424/000-006**  
Continuous jumper; from 1 to 4; insulated; blue



**Item No.: 2002-424**  
Continuous jumper; from 1 to 4; insulated; light gray



**Item No.: 2002-424/000-005**  
Continuous jumper; from 1 to 4; insulated; red



**Item No.: 2002-406/020-000**  
Delta jumper; insulated; light gray



**Item No.: 2002-410/000-006**  
Jumper; 10-way; insulated; blue



**Item No.: 2002-410**  
Jumper; 10-way; insulated; light gray



**Item No.: 2002-410/000-005**  
Jumper; 10-way; insulated; red



**Item No.: 2002-402/000-006**  
Jumper; 2-way; insulated; blue



**Item No.: 2002-402**  
Jumper; 2-way; insulated; light gray



**Item No.: 2002-402/000-005**  
Jumper; 2-way; insulated; red



**Item No.: 2002-403/000-006**  
Jumper; 3-way; insulated; blue



**Item No.: 2002-403**  
Jumper; 3-way; insulated; light gray



**Item No.: 2002-403/000-005**  
Jumper; 3-way; insulated; red



**Item No.: 2002-404/000-006**  
Jumper; 4-way; insulated; blue



**Item No.: 2002-404**  
Jumper; 4-way; insulated; light gray



**Item No.: 2002-404/000-005**  
Jumper; 4-way; insulated; red



**Item No.: 2002-405/000-006**  
Jumper; 5-way; insulated; blue



**Item No.: 2002-405**  
Jumper; 5-way; insulated; light gray



1.2.5.1 Jumper

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

1.2.6 Marking

1.2.6.1 Group marker carrier

|                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><u>Item No.: 2009-191</u><br>Group marker carrier; gray | <br><u>Item No.: 2009-192</u><br>Group marker carrier; gray | <br><u>Item No.: 2009-193</u><br>Group marker carrier; gray |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|



## 1.2.6.2 Marker

**Item No.: 2009-145/000-006**

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

**Item No.: 2009-145/000-007**

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

**Item No.: 2009-145/000-023**

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

**Item No.: 2009-145/000-012**

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

**Item No.: 2009-145/000-005**

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

**Item No.: 2009-145/000-024**

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

**Item No.: 2009-145**

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

**Item No.: 2009-145/000-002**

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

**Item No.: 248-501/000-006**

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

**Item No.: 248-501/000-007**

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

**Item No.: 248-501/000-023**

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

**Item No.: 248-501/000-017**

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

**Item No.: 248-501/000-012**

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

**Item No.: 248-501/000-005**

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

**Item No.: 248-501/000-024**

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

**Item No.: 248-501**

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

**Item No.: 248-501/000-002**

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

**Item No.: 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

**Item No.: 793-5501/000-014**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

**Item No.: 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

**Item No.: 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; green

**Item No.: 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; light green

**Item No.: 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

**Item No.: 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

**Item No.: 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

**Item No.: 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

**Item No.: 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

**Item No.: 2009-115/000-006**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

**Item No.: 2009-115/000-007**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

**Item No.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item No.: 2009-115/000-017**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

**Item No.: 2009-115/000-012**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item No.: 2009-115/000-005**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

**Item No.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item No.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 2009-115/000-002**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

**Item No.: 2002-121**

Adaptor; gray

**Item No.: 2002-161**

Adaptor; gray

**Item No.: 2009-198**

Adaptor; gray

## 1.2.6.3 Marker carrier

1.2.6.4 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel;  
not stretchable; plain; snap-on type; white

1.2.7 Protective warning marker

1.2.7.1 Cover



**Item No.: 2002-115**  
Protective warning marker; for 5 terminal  
blocks; with high-voltage symbol, black;  
yellow

1.2.8 Push-in type wire jumper

1.2.8.1 Jumper



**Item No.: 2009-414**  
Push-in type wire jumper; 1.5 mm<sup>2</sup>; insu-  
lated; 110 mm long; black



**Item No.: 2009-414/000-005**  
Push-in type wire jumper; 1.5 mm<sup>2</sup>; insu-  
lated; 110 mm long; black



**Item No.: 2009-416**  
Push-in type wire jumper; 1.5 mm<sup>2</sup>; 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

1.2.9 Screwless end stop

1.2.9.1 Mounting accessories



**Item No.: 249-117**  
Screwless end stop; 10 mm wide; for DIN-  
rail 35 x 15 and 35 x 7.5; gray



**Item No.: 249-116**  
Screwless end stop; 6 mm wide; for DIN-  
rail 35 x 15 and 35 x 7.5; gray

1.2.10 Test and measurement

1.2.10.1 Testing accessories



**Item No.: 2002-560**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 10-pole; gray



**Item No.: 2002-511**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 1-pole; gray



**Item No.: 2002-552**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 2-pole; gray



**Item No.: 2002-553**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 3-pole; gray



**Item No.: 2002-554**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 4-pole; gray



**Item No.: 2002-555**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 5-pole; gray



**Item No.: 2002-556**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 6-pole; gray



**Item No.: 2002-557**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 7-pole; gray



**Item No.: 2002-558**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 8-pole; gray



**Item No.: 2002-559**  
Modular TOPJOB®S connector; modular;  
for jumper contact slot; 9-pole; gray



**Item No.: 2002-549**  
Spacer module; modular; e.g., for bridging  
commoned terminal blocks; gray



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

1.2.10.1 Testing accessories



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red



**Item No.: 2009-182**  
Testing tap; for max. 2.5 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray



**Item No.: 2002-649**  
TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray



**Item No.: 2002-611**  
TOPJOB®S L-type test plug module; modular; 1-pole; gray

1.2.11 Tool

1.2.11.1 Operating tool



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



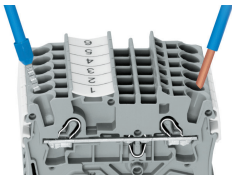
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

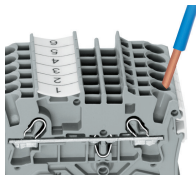
Conductor termination



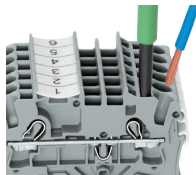
**All conductor types at a glance**



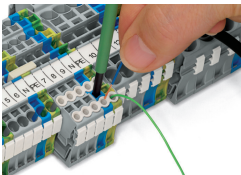
Push-in termination of solid and ferruled conductors



**Inserting a conductor via push-in termination:**  
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

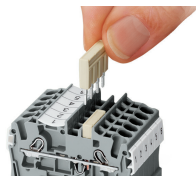


**Inserting a conductor via operating tool:**  
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.  
**Advantage:**  
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

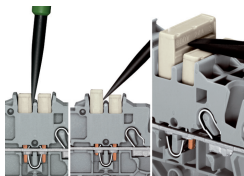


Conductor termination – insulation stop

Commoning

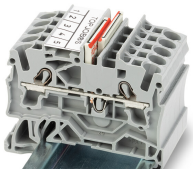


Insert push-in type jumper bar and push down until it hits backstop.

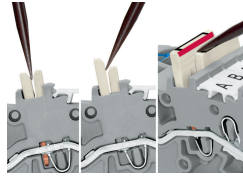


**Removing a push-in type jumper bar:**  
Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper.  
Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

## Commoning



Orient the staggered jumpers' red stripes on the inside.  
Insert the staggered jumper and push down until it hits the backstop.

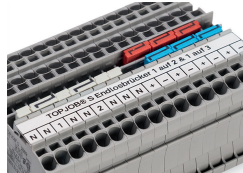


**Removing a staggered jumper:**  
Insert the operating tool between the staggered jumpers, then lift up the jumper.

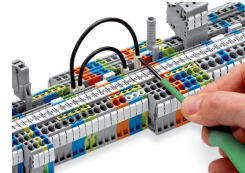
## Commoning



Continuous jumpers (2002 Series) readily connect an endless number of terminal blocks to each other via single jumper slot. Use the second jumper slot for additional commoning or testing.

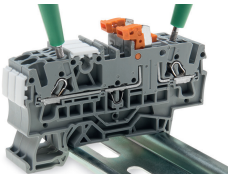


The 1-to-3 adjacent jumper for continuous commoning enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.

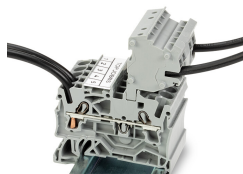


Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

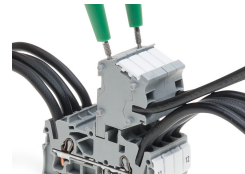
## Testing



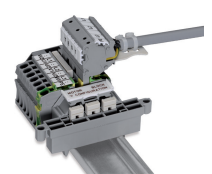
Testing with voltage tester.



The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



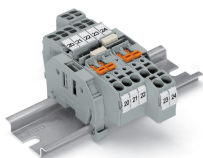
Rail-mount terminal block assembly for electric motor wiring



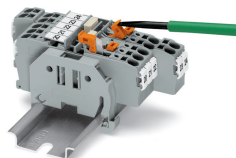
Test plug adapter (Item No. 2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series



Testing tap (Item No. 2009-182) for tool-free connection of test cables up to 2.5 mm<sup>2</sup> (12 AWG) – compatible with 2000 to 2016 Series



- One center and two side marker slots for WMB markers or marking strips
- Dual jumper slots in the same location as other 2002 Series terminal blocks
- Commoning options in front of or behind the knife disconnect, depending on the power supply direction

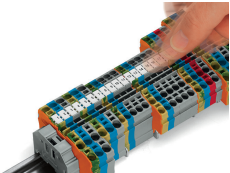


**Disconnect/test terminal block with pivoting knife disconnect**  
Opening a knife disconnect.

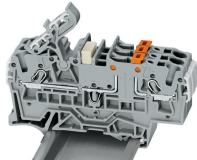
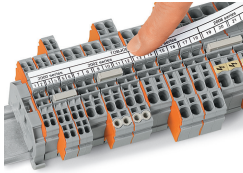


**Disconnect/test terminal block with pivoting knife disconnect**  
Closing the knife disconnect.

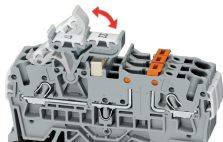
Marking



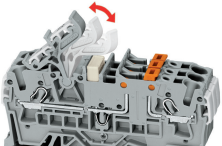
Snapping WMB Inline markers into marker slots.



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)