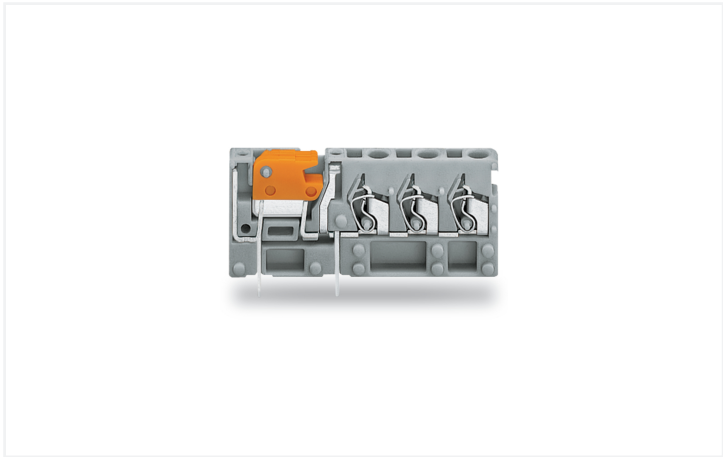
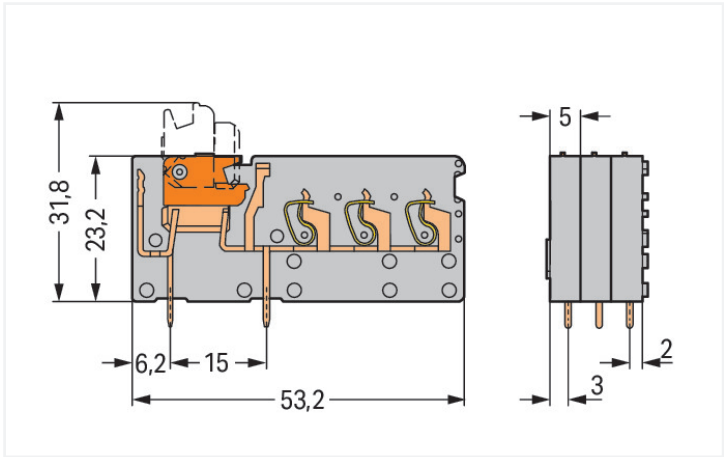




Color: ■ gray



Dimensions in mm

PCB terminal block, 742 Series, with 5 mm pin spacing

Our PCB terminal block (item number 742-153) ensures effortless electrical installations. It is perfect for custom installations with different mounting types. Conductors should only be connected to this PCB terminal block if their strip length is between 6 and 7 mm . Featuring one conductor terminal along with CAGE CLAMP®, this connector outperforms the competition. Our proven universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The item's dimensions are (7 x 27.2 x 53.2) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

The contact surface is coated with tin. This PCB terminal block is operated with an operating tool. THT is used to solder the PCB terminal block. The conductor is designed to be inserted into the board at a 90° angle..

| Electrical data                 |  |                |       |       |
|---------------------------------|--|----------------|-------|-------|
| Ratings per                     |  | IEC/EN 60664-1 |       |       |
| Overvoltage category            |  | III            | III   | II    |
| Pollution degree                |  | 3              | 2     | 2     |
| Nominal voltage                 |  | 320 V          | 320 V | 630 V |
| Rated impulse withstand voltage |  | 4 kV           | 4 kV  | 4 kV  |
| Rated current                   |  | 16 A           | 16 A  | 16 A  |
| Approvals per                   |  | UL 1059        |       |       |
| Use group                       |  | B              | C     | D     |
| Rated voltage                   |  | 300 V          | -     | 300 V |
| Rated current                   |  | 10 A           | -     | 10 A  |

| Approvals per |  | CSA   |   |       |
|---------------|--|-------|---|-------|
| Use group     |  | B     | C | D     |
| Rated voltage |  | 300 V | - | 300 V |
| Rated current |  | 10 A  | - | 10 A  |



| Connection Data            |   |                                                   |                                   |
|----------------------------|---|---------------------------------------------------|-----------------------------------|
| Clamping units             | 3 | Connection 1                                      |                                   |
| Total number of potentials | 1 | Connection technology                             | CAGE CLAMP®                       |
| Number of connection types | 1 | Actuation type                                    | Operating tool                    |
| Number of levels           | 1 | Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
|                            |   | Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
|                            |   | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                  |
|                            |   | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                  |
|                            |   | Note (conductor cross-section)                    | 12 AWG: THHN, THWN                |
|                            |   | Strip length                                      | 6 ... 7 mm / 0.24 ... 0.28 inches |
|                            |   | Conductor connection direction to PCB             | 90 °                              |
|                            |   | Pole number                                       | 1                                 |

| Physical data           |  |                          |
|-------------------------|--|--------------------------|
| Pin spacing             |  | 5 mm / 0.197 inches      |
| Width                   |  | 7 mm / 0.276 inches      |
| Height                  |  | 27.2 mm / 1.071 inches   |
| Height from the surface |  | 23.2 mm / 0.913 inches   |
| Depth                   |  | 53.2 mm / 2.094 inches   |
| Solder pin length       |  | 4 mm                     |
| Solder pin dimensions   |  | 1 x 0.8 mm               |
| !                       |  | 1.4 <sup>(+0.1)</sup> mm |

| PCB contact                         |  |                                     |
|-------------------------------------|--|-------------------------------------|
| PCB contact                         |  | THT                                 |
| Solder pin arrangement              |  | within the terminal block (in-line) |
| Number of solder pins per potential |  | 2                                   |

| Material data                      |  |                                                                          |
|------------------------------------|--|--------------------------------------------------------------------------|
| Note (material data)               |  | <a href="#">Information on material specifications can be found here</a> |
| Color                              |  | gray                                                                     |
| Material group                     |  | I                                                                        |
| Insulation material (main housing) |  | Polyamide (PA66)                                                         |
| Flammability class per UL94        |  | V0                                                                       |
| Clamping spring material           |  | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   |  | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    |  | Tin                                                                      |
| Fire load                          |  | 0.116 MJ                                                                 |
| Weight                             |  | 7.4 g                                                                    |



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

| Commercial data       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 100 pcs                        |
| Packaging type        | Box                            |
| Country of origin     | CH                             |
| GTIN                  | 4045454232597                  |
| Customs tariff number | 85365080000                    |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-44-04-01          |
| eCl@ss 9.0             | 27-44-04-01          |
| ETIM 9.0               | EC002643             |
| ETIM 10.0              | EC002643             |
| ECCN                   | NO US CLASSIFICATION |

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

Approvals / Certificates

| General approvals                    |               | Declarations of conformity and manufacturer's declarations |
|--------------------------------------|---------------|------------------------------------------------------------|
|                                      |               |                                                            |
| Approval                             | Standard      | Certificate Name                                           |
| CCA<br>DEKRA Certification B.V.      | EN 60947-7-4  | NTR NL 7813                                                |
| CCA<br>DEKRA Certification B.V.      | EN 60947-7-4  | 71-112655                                                  |
| CSA<br>DEKRA Certification B.V.      | C22.2 No. 158 | 1711139                                                    |
| UR<br>Underwriters Laboratories Inc. | UL 1059       | E45172                                                     |
|                                      |               | Approval                                                   |
|                                      |               | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    |
|                                      |               | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    |

Approvals for marine applications

| Approval                                | Standard  | Certificate Name |
|-----------------------------------------|-----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping | -         | 24-0095975-PDA   |
| BV<br>Bureau Veritas S.A.               | IEC 60998 | 11915/E0 BV      |
| DNV<br>DNV GL SE                        | -         | TAE000016Z       |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 742-153

↓

Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models 742-153

↓

CAE data

EPLAN Data Portal 742-153

↓

ZUKEN Portal 742-153

↓

PCB Design

Symbol and Footprint via SamacSys 742-153

↓

Symbol and Footprint via Ultra Librarian 742-153

↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 742-152

End plate; snap-fit type; 1.5 mm thick; gray

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Version 23.01.2026

Continued on next page

| 1.2 Optional Accessories                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.2.1 Ferrule                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                    |
| 1.2.1.1 Ferrule                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                    |
| <br><b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow                                                                         | <br><b>Item No.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored                                                               | <br><b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise                                                               | <br><b>Item No.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated                                                                                          |
| <br><b>Item No.: 216-241</b><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   | <br><b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                           | <br><b>Item No.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92       | <br><b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored                                                                           |
| <br><b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray   | <br><b>Item No.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray   | <br><b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                          | <br><b>Item No.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                  |
| <br><b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored                                                               | <br><b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red       | <br><b>Item No.: 216-263</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red      | <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                                          |
| <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92        | <br><b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored                                                                | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                        | <br><b>Item No.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black            |
| <br><b>Item No.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <br><b>Item No.: 216-284</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <br><b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated                                                                             | <br><b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored |
| <br><b>Item No.: 216-289</b><br>Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <br><b>Item No.: 216-209</b><br>Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; red                                                                             | <br><b>Item No.: 216-109</b><br>Ferrule; Sleeve for 10 mm² / AWG 8; uninsulated; electro-tin plated                                                                               | <br><b>Item No.: 216-210</b><br>Ferrule; Sleeve for 16 mm² / AWG 6; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue               |
| <br><b>Item No.: 216-110</b><br>Ferrule; Sleeve for 16 mm² / AWG 6; uninsulated; electro-tin plated; brown metallic                                                                | <br><b>Item No.: 216-246</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue  | <br><b>Item No.: 216-266</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue | <br><b>Item No.: 216-286</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue             |
| <br><b>Item No.: 216-106</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored                                                              | <br><b>Item No.: 216-267</b><br>Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray    | <br><b>Item No.: 216-287</b><br>Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray   | <br><b>Item No.: 216-207</b><br>Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray                                                                                       |



1.2.1.1 Ferrule



|                                                                                                               |                                                                                                                                                                                                       |                                                                                                                                                                                                       |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 216-107</b><br/>Ferrule; Sleeve for 4 mm² / AWG 12; unin-<br/>sulated; electro-tin plated</p> | <p><b>Item No.: 216-208</b><br/>Ferrule; Sleeve for 6 mm² / AWG 10; insu-<br/>lated; electro-tin plated; electrolytic cop-<br/>per; gastight crimped; acc. to DIN 46228,<br/>Part 4/09.90; yellow</p> | <p><b>Item No.: 216-288</b><br/>Ferrule; Sleeve for 6 mm² / AWG 10; insu-<br/>lated; electro-tin plated; electrolytic cop-<br/>per; gastight crimped; acc. to DIN 46228,<br/>Part 4/09.90; yellow</p> | <p><b>Item No.: 216-108</b><br/>Ferrule; Sleeve for 6 mm² / AWG 10; unin-<br/>sulated; electro-tin plated; silver-colored</p> |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

1.2.2 Marking

1.2.2.1 Marker



|                                                                                                                                                                 |                                                                                                                                                                 |                                                                                                                                                                  |                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 2009-145/000-006</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; blue</p> | <p><b>Item No.: 2009-145/000-007</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; gray</p> | <p><b>Item No.: 2009-145/000-023</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; green</p> | <p><b>Item No.: 2009-145/000-012</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; orange</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                                                |                                                                                                                                                                   |                                                                                                                                                          |                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 2009-145/000-005</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; red</p> | <p><b>Item No.: 2009-145/000-024</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; violet</p> | <p><b>Item No.: 2009-145</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; white</p> | <p><b>Item No.: 2009-145/000-002</b><br/>Mini-WSB Inline; for Smart Printer; 1700<br/>pieces on roll; stretchable 5 - 5.2 mm;<br/>plain; snap-on type; yellow</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                              |                                                                                                                            |                                                                                                                             |                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 248-501/000-006</b><br/>Mini-WSB marking card; as card; not stret-<br/>chable; plain; snap-on type; blue</p> | <p><b>Item No.: 248-501/000-007</b><br/>Mini-WSB marking card; as card; not<br/>stretchable; plain; snap-on type; gray</p> | <p><b>Item No.: 248-501/000-023</b><br/>Mini-WSB marking card; as card; not<br/>stretchable; plain; snap-on type; green</p> | <p><b>Item No.: 248-501/000-017</b><br/>Mini-WSB marking card; as card; not stret-<br/>chable; plain; snap-on type; light green</p> |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                |                                                                                                                           |                                                                                                                              |                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 248-501/000-012</b><br/>Mini-WSB marking card; as card; not stret-<br/>chable; plain; snap-on type; orange</p> | <p><b>Item No.: 248-501/000-005</b><br/>Mini-WSB marking card; as card; not<br/>stretchable; plain; snap-on type; red</p> | <p><b>Item No.: 248-501/000-024</b><br/>Mini-WSB marking card; as card; not<br/>stretchable; plain; snap-on type; violet</p> | <p><b>Item No.: 248-501</b><br/>Mini-WSB marking card; as card; not stret-<br/>chable; plain; snap-on type; white</p> |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|



|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Item No.: 248-501/000-002</b><br/>Mini-WSB marking card; as card; not stret-<br/>chable; plain; snap-on type; yellow</p> |
|--------------------------------------------------------------------------------------------------------------------------------|

1.2.3 Test and measurement

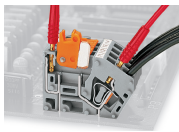
1.2.3.1 Testing accessories



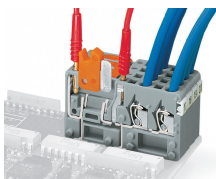
|                                                                               |
|-------------------------------------------------------------------------------|
| <p><b>Item No.: 210-136</b><br/>Test plug; 2 mm Ø; with 500 mm cable; red</p> |
|-------------------------------------------------------------------------------|

Installation Notes

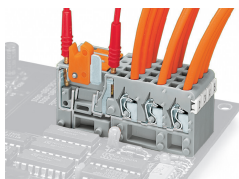
Testing



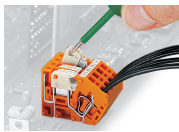
Testing – disconnect/test terminal block  
Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.



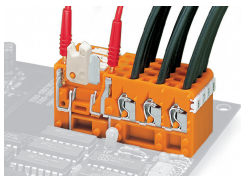
Testing – disconnect/test terminal block  
Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.



Testing – disconnect/test terminal block  
Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.

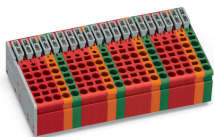


Opening a knife disconnect.

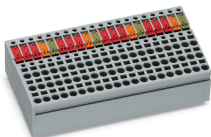


Distributing potentials via 3-conductor terminal blocks.

Application



Mixed-color terminal strips are available upon request.



Mixed-color knife disconnect/test terminal strips are available upon request.



Custom terminal strips are available upon request.