

AITB 2.5 BB NDT-L-PE

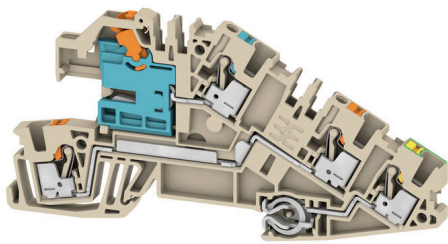
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Building installation wiring

For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

General ordering data

| | |
|------------|--|
| Version | Multi level installation terminal block, PUSH IN, dark beige, 2.5 mm ² , 24 A, 250 V, Number of connections: 4, Number of levels: 3 |
| Order No. | 2668950000 |
| Type | AITB 2.5 BB NDT-L-PE |
| GTIN (EAN) | 4064675030539 |
| Qty. | 50 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 50.1 mm | Depth (inches) | 1.9724 inch |
| Height | 103 mm | Height (inches) | 4.0551 inch |
| Width | 5.1 mm | Width (inches) | 0.2008 inch |
| Net weight | 18.9 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -5 °C...40 °C |
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Material data

| | | | |
|--------------------------------|--------|---------------------------|------------|
| Basic material | Wemid | Colour | dark beige |
| Colour of operational elements | orange | UL 94 flammability rating | V-0 |

System specifications

| | | | |
|-----------------------------------|-----|-------------------------------------|-------|
| End cover plate required | Yes | Number of potentials | 3 |
| Number of levels | 3 | Number of clamping points per level | 2 |
| Levels cross-connected internally | No | Mounting rail | TS 35 |
| N-function | No | PE function | Yes |
| PEN function | No | | |

Additional technical data

| | | | |
|------------------|---------|---------|-----|
| Open sides | right | Snap-on | Yes |
| Type of mounting | Snap-on | | |

Conductors for clamping (rated connection)

| | |
|---|----------------------|
| Gauge to IEC 60947-1 | A3 |
| Wire connection cross section AWG, max. | AWG 12 |
| Connection direction | top |
| Stripping length | 10 mm |
| Type of connection 2 | PUSH IN |
| Type of connection | PUSH IN |
| Number of connections | 4 |
| Clamping range, max. | 4 mm ² |
| Clamping range, min. | 0.14 mm ² |
| Blade size | 0.6 x 3.5 mm |

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| | | | | |
|---|---|--|----------------------|----------------------|
| Wire connection cross section AWG, min. | AWG 28 | | | |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm ² | | | |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.14 mm ² | | | |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 4 mm ² | | | |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.14 mm ² | | | |
| Wire connection cross section, finely stranded, max. | 4 mm ² | | | |
| Wire connection cross section, finely stranded, min. | 0.14 mm ² | | | |
| Connection cross-section, stranded, max. | 4 mm ² | | | |
| Connection cross-section, stranded, min. | 0.14 mm ² | | | |
| Twin wire-end ferrules, max. | 0.75 mm ² | | | |
| Twin wire-end ferrules, min. | 0.5 mm ² | | | |
| Wire connection cross-section, solid core, max. | 4 mm ² | | | |
| Wire connection cross-section, solid core, min. | 0.14 mm ² | | | |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4 | Tube length | min. | 6 mm | |
| | | max. | 8 mm | |
| | Cross-section for conductor connection | min. | 0.14 mm ² | |
| | | max. | 0.34 mm ² | |
| | Tube length | min. | 6 mm | |
| | | max. | 12 mm | |
| Cross-section for conductor connection | min. | 0.5 mm ² | | |
| | max. | 1 mm ² | | |
| Tube length for twin wire-end ferrule | Tube length | min. | 8 mm | |
| | | max. | 12 mm | |
| | Cross-section for conductor connection | min. | 0.5 mm ² | |
| | | max. | 0.75 mm ² | |
| | Tube length for wire-end ferrule without plastic collar DIN 46228/1 | Tube length | nominal | 5 mm |
| | | Cross-section for conductor connection | nominal | 0.25 mm ² |
| Tube length | | min. | 6 mm | |
| | | max. | 10 mm | |
| Cross-section for conductor connection | | min. | 0.5 mm ² | |
| | | max. | 1 mm ² | |
| Tube length | min. | 7 mm | | |
| | max. | 12 mm | | |
| Cross-section for conductor connection | min. | 1.5 mm ² | | |
| | max. | 2.5 mm ² | | |

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Technical data

General

| | | | |
|---|--|---|--------|
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 28 |
| Standards | In accordance with IEC 60947-7-1, In accordance with IEC 60947-7-2 | Mounting rail | TS 35 |

Rating data

| | | | |
|--|---------------------|---------------------------------|--|
| Rated cross-section | 2.5 mm ² | Rated voltage | 250 V |
| Rated DC voltage | 250 V | Nominal current | 24 A |
| Current at maximum wires | 27 A | Standards | In accordance with IEC 60947-7-1, In accordance with IEC 60947-7-2 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Rated impulse withstand voltage | 4 kV |
| Power loss in accordance with IEC 60947-7-x | 0.77 W | Rated voltage (L / L) | 400 V |
| Rated voltage (L / N) | 250 V | Rated voltage (L / PE) | 250 V |
| Surge voltage category | III | Pollution severity | 3 |

Classifications

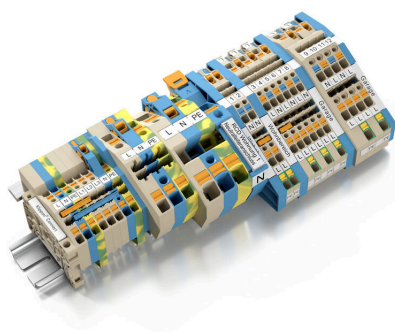
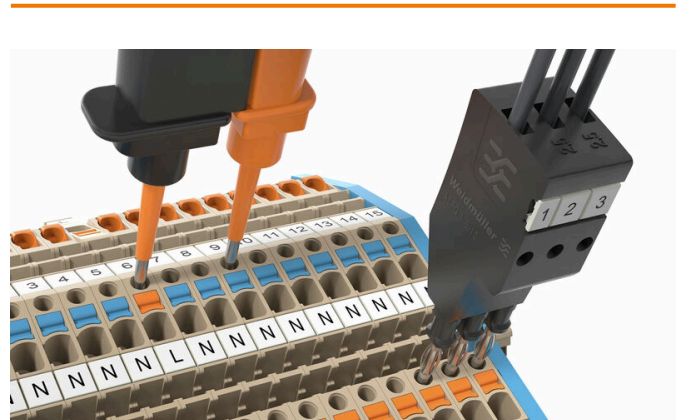
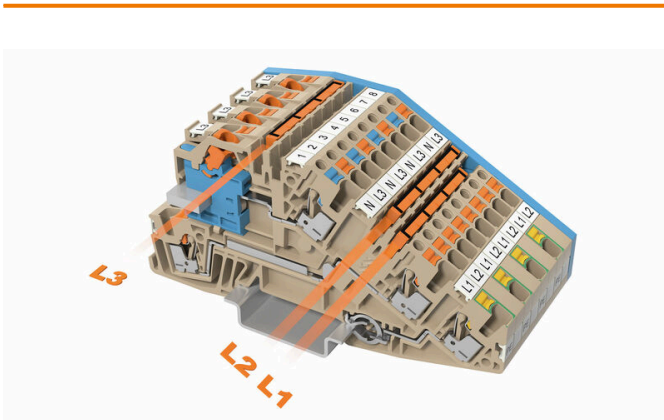
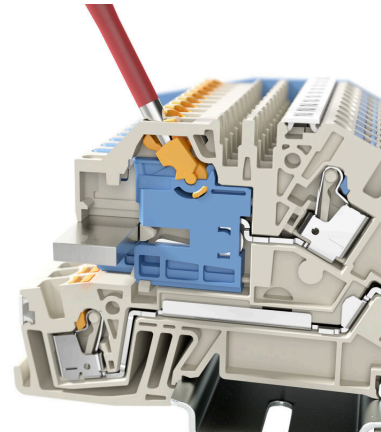
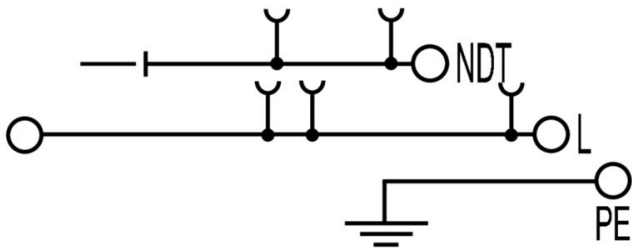
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001329 | ETIM 9.0 | EC001329 |
| ETIM 10.0 | EC001329 | ECLASS 14.0 | 27-25-01-10 |
| ECLASS 15.0 | 27-25-01-10 | | |

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Drawings

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Accessories

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

| | | |
|------------|----------------------------|---------------------------|
| Type | AEP ITB 2.5 BB | Version |
| Order No. | 2668960000 | A-series, End plate |
| GTIN (EAN) | 4064675030546 | |
| Qty. | 20 ST | |
| Type | APP ITB 2.5 BB BL | Version |
| Order No. | 2668970000 | A-series, Partition plate |
| GTIN (EAN) | 4064675030553 | |
| Qty. | 20 ST | |

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | |
|------------|----------------------------|-----------------------|
| Type | AEB 35 SC/1 | Version |
| Order No. | 1991920000 | A-series, End bracket |
| GTIN (EAN) | 4050118376722 | |
| Qty. | 50 ST | |
| Type | AEB 35 SCL/1 V0 | Version |
| Order No. | 2661280000 | A-series, End bracket |
| GTIN (EAN) | 4050118702163 | |
| Qty. | 20 ST | |

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Accessories

Testadapter and testsockets



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ATPG 1.5-10 L | Version |
| Order No. | 1991890000 | Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A |
| GTIN (EAN) | 4050118376647 | |
| Qty. | 50 ST | |
| Type | ATPG 2.5 MI-R | Version |
| Order No. | 1991960000 | Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A |
| GTIN (EAN) | 4050118376685 | |
| Qty. | 50 ST | |
| Type | ATPG 2.5/3 | Version |
| Order No. | 2041190000 | Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A |
| GTIN (EAN) | 4050118409604 | |
| Qty. | 25 ST | |
| Type | ATPG 2.5/5 | Version |
| Order No. | 2041180000 | Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A |
| GTIN (EAN) | 4050118409505 | |
| Qty. | 25 ST | |

Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

- Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | PS 2.0 MC | Version |
| Order No. | 0310000000 | PCB plug-in connector, Accessories, Test plug, red, Number of poles: |
| GTIN (EAN) | 4008190000059 | 1 |
| Qty. | 20 ST | |

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Accessories

Busbars



With our bus bars in various materials and the associated accessories, you can connect cables in the smallest installation space. Depending on the application, potentials can be collected, distributed or dissipated.

General ordering data

| | | | |
|------------|---------------------------|---|--|
| Type | SSCH 10X3X1000 CU/SN | Version | |
| Order No. | 034890000 | Busbar (terminal), silver, Height: 1000 mm, Depth: 3 mm, Copper | |
| GTIN (EAN) | 4008190024802 | | |
| Qty. | 25 M | | |

Plus



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | | |
|------------|---------------------------|---|--|
| Type | DEK 5/5 PLUS MC NE WS | Version | |
| Order No. | 185449000 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 | |
| GTIN (EAN) | 4032248393596 | Weidmueller, white | |
| Qty. | 1000 ST | | |

Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

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Accessories

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | SDIS SLIM 0.6X3.5X100 | Version | |
| Order No. | 2749610000 | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade | |
| GTIN (EAN) | 4050118896350 | thickness (A): 0.6 mm | |
| Qty. | 1 ST | | |

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | | |
|------------|----------------------------|-----------------------|--|
| Type | AEB 35 SCL/1 V0 BK | Version | |
| Order No. | 2661300000 | A-series, End bracket | |
| GTIN (EAN) | 4050118702187 | | |
| Qty. | 20 ST | | |
| Type | AEB 35 SCL/1 V0 GY | Version | |
| Order No. | 2661290000 | A-series, End bracket | |
| GTIN (EAN) | 4050118702170 | | |
| Qty. | 20 ST | | |

DEK 5/5



WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

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Accessories

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | DEK 5/5 MM WS | Version | |
| Order No. | 2007110000 | Dekafix, Terminal marker, 5 x 5 mm, Weidmueller, white | |
| GTIN (EAN) | 4050118391862 | | |
| Qty. | 800 ST | | |

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | ZQV 2.5N/10 | Version | |
| Order No. | 1527690000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.7 mm | |
| GTIN (EAN) | 4050118447989 | | |
| Qty. | 20 ST | | |
| Type | ZQV 2.5N/2 | Version | |
| Order No. | 1527540000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7.9 mm | |
| GTIN (EAN) | 4050118448467 | | |
| Qty. | 60 ST | | |
| Type | ZQV 2.5N/20 | Version | |
| Order No. | 1527720000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 20, Pitch in mm (P): 5.10, Insulated: Yes, Width: 102 mm | |
| GTIN (EAN) | 4050118447972 | | |
| Qty. | 20 ST | | |
| Type | ZQV 2.5N/3 | Version | |
| Order No. | 1527570000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 3, Pitch in mm (P): 5.10, Insulated: Yes, Width: 13 mm | |
| GTIN (EAN) | 4050118448450 | | |
| Qty. | 60 ST | | |
| Type | ZQV 2.5N/4 | Version | |
| Order No. | 1527590000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 4, Pitch in mm (P): 5.10, Insulated: Yes, Width: 18.1 mm | |
| GTIN (EAN) | 4050118448443 | | |
| Qty. | 60 ST | | |
| Type | ZQV 2.5N/5 | Version | |
| Order No. | 1527620000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 5, Pitch in mm (P): 5.10, Insulated: Yes, Width: 23.2 mm | |
| GTIN (EAN) | 4050118448436 | | |
| Qty. | 20 ST | | |
| Type | ZQV 2.5N/50 | Version | |
| Order No. | 1527730000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 50, Pitch in mm (P): 5.10, Insulated: Yes, Width: 255 mm | |
| GTIN (EAN) | 4050118411362 | | |
| Qty. | 5 ST | | |
| Type | ZQV 2.5N/6 | Version | |
| Order No. | 1527630000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 6, Pitch in mm (P): 5.10, Insulated: Yes, Width: 28.3 mm | |
| GTIN (EAN) | 4050118448429 | | |
| Qty. | 20 ST | | |

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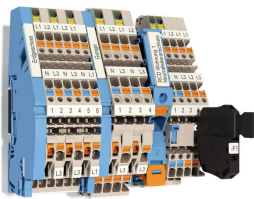
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|------------|----------------------------|---|
| Type | ZQV 2.5N/7 | Version |
| Order No. | 1527640000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: |
| GTIN (EAN) | 4050118448412 | 7, Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm |
| Qty. | 20 ST | |
| Type | ZQV 2.5N/8 | Version |
| Order No. | 1527670000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: |
| GTIN (EAN) | 4050118448405 | 8, Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm |
| Qty. | 20 ST | |
| Type | ZQV 2.5N/9 | Version |
| Order No. | 1527680000 | Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: |
| GTIN (EAN) | 4050118447996 | 9, Pitch in mm (P): 5.10, Insulated: Yes, Width: 43.6 mm |
| Qty. | 20 ST | |

Installation terminal blocks



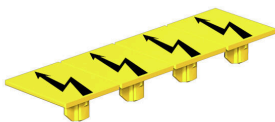
Building installation wiring

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | AEB ITB 2.5/4 BB BL | Version |
| Order No. | 2690440000 | End bracket, blue, TS 35, V-0, Wemid, Width: 6.1 mm, 130 °C |
| GTIN (EAN) | 4064675266464 | |
| Qty. | 25 ST | |
| Type | AEB ITB 16 BB BL | Version |
| Order No. | 2669130000 | End bracket, blue, TS 35, V-0, Wemid, Width: 12 mm, 130 °C |
| GTIN (EAN) | 4064675266365 | |
| Qty. | 20 ST | |

Warning cover



Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | AAM 2.5 YE FLASH | Version |
| Order No. | 2635550000 | A-series, Terminal marker, 8 x 5.1 mm, Pitch in mm (P): 5.00 yellow |
| GTIN (EAN) | 4050118674095 | |
| Qty. | 40 ST | |

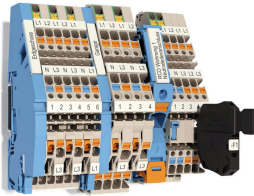
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Installation terminal blocks



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General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | AITB 16 BB NLO BL | Version | |
| Order No. | 2669140000 | | Multi level installation terminal block, PUSH IN, blue, 16 mm ² , 76 A, |
| GTIN (EAN) | 4064675266372 | | 1000 V, Number of connections: 2, Number of levels: 1 |
| Qty. | 20 ST | | |

Testadapter and testsockets



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | FZS 2/4 RT/80 SAKT4 | Version | |
| Order No. | 1276300000 | | Plug (terminal), Plug-in connection, 2 mm ² , Number of connections: 2, |
| GTIN (EAN) | 4008190026080 | | Number of poles: 1, Width: 9 mm |
| Qty. | 20 ST | | |