

**AITB 2.5 L-L DL****Weidmüller Interface GmbH & Co. KG**Klingenbergsstraße 26  
D-32758 Detmold  
Germany[www.weidmueller.com](http://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 <sup>2</sup> , 24 A, 400 V, Number of connections: 4, Number of levels: 2
Order No.	<a href="#">2782620000</a>
Type	AITB 2.5 L-L DL
GTIN (EAN)	4064675058755
Qty.	50 items

## AITB 2.5 L-L DL

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Germany

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## Technical data

## Approvals

Approvals



ROHS Conform  
UL File Number Search [UL Website](#)  
Certificate No. (cURus) E60693

## 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	17 g		

## Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °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	2
Number of levels	2	Number of clamping points per level	2
Levels cross-connected internally	No	Mounting rail	TS 35
N-function	No	PE function	No
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 <sup>2</sup>
Clamping range, min.	0.14 mm <sup>2</sup>

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## Technical data

Blade size	0.6 x 3.5 mm																																				
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 <sup>2</sup>																																				
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm <sup>2</sup>																																				
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	4 mm <sup>2</sup>																																				
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.14 mm <sup>2</sup>																																				
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Connection cross-section, stranded, max.	4 mm <sup>2</sup>																																				
Connection cross-section, stranded, min. 0.14 mm <sup>2</sup>																																					
Twin wire-end ferrules, max.	0.75 mm <sup>2</sup>																																				
Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>																																				
Wire connection cross-section, solid core, max.	4 mm <sup>2</sup>																																				
Wire connection cross-section, solid core, min.	0.14 mm <sup>2</sup>																																				
Tube length for wire-end ferrule with plastic collar DIN 46228/4	<table border="1"> <tr> <td>Tube length</td> <td>min.</td> <td>6 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>8 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>0.14 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>0.34 mm<sup>2</sup></td> </tr> <tr> <td>Tube length</td> <td>min.</td> <td>6 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>12 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>0.5 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>1 mm<sup>2</sup></td> </tr> <tr> <td>Tube length</td> <td>min.</td> <td>8 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>12 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>1.5 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>2.5 mm<sup>2</sup></td> </tr> </table>	Tube length	min.	6 mm		max.	8 mm	Cross-section for conductor connection	min.	0.14 mm <sup>2</sup>		max.	0.34 mm <sup>2</sup>	Tube length	min.	6 mm		max.	12 mm	Cross-section for conductor connection	min.	0.5 mm <sup>2</sup>		max.	1 mm <sup>2</sup>	Tube length	min.	8 mm		max.	12 mm	Cross-section for conductor connection	min.	1.5 mm <sup>2</sup>		max.	2.5 mm <sup>2</sup>
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Tube length for twin wire-end ferrule	<table border="1"> <tr> <td>Tube length</td> <td>min.</td> <td>8 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>12 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>0.5 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>0.75 mm<sup>2</sup></td> </tr> </table>	Tube length	min.	8 mm		max.	12 mm	Cross-section for conductor connection	min.	0.5 mm <sup>2</sup>		max.	0.75 mm <sup>2</sup>																								
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Tube length for wire-end ferrule without plastic collar DIN 46228/1	<table border="1"> <tr> <td>Tube length</td> <td>nominal</td> <td>5 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>nominal</td> <td>0.25 mm<sup>2</sup></td> </tr> <tr> <td>Tube length</td> <td>min.</td> <td>6 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>10 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>0.5 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>1 mm<sup>2</sup></td> </tr> <tr> <td>Tube length</td> <td>min.</td> <td>7 mm</td> </tr> <tr> <td></td> <td>max.</td> <td>12 mm</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>min.</td> <td>1.5 mm<sup>2</sup></td> </tr> <tr> <td></td> <td>max.</td> <td>2.5 mm<sup>2</sup></td> </tr> </table>	Tube length	nominal	5 mm	Cross-section for conductor connection	nominal	0.25 mm <sup>2</sup>	Tube length	min.	6 mm		max.	10 mm	Cross-section for conductor connection	min.	0.5 mm <sup>2</sup>		max.	1 mm <sup>2</sup>	Tube length	min.	7 mm		max.	12 mm	Cross-section for conductor connection	min.	1.5 mm <sup>2</sup>		max.	2.5 mm <sup>2</sup>						
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## General

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

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## Technical data

## Rating data

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	400 V
Rated DC voltage	400 V	Nominal current	24 A
Current at maximum wires	27 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	4 kV
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		

## UL rating data

Conductor size Factory wiring max. (cURus)	12 AWG	Voltage size B (cURus)	300 V
Voltage size D (cURus)	300 V	Certificate No. (cURus)	E60693
Conductor size Field wiring min. (cURus)	26 AWG	Conductor size Factory wiring min. (cURus)	26 AWG
Current size B (cURus)	20 A	Voltage size C (cURus)	300 V
Current size C (cURus)	20 A	Current size D (cURus)	10 A
Conductor size Field wiring max. (cURus)	12 AWG		

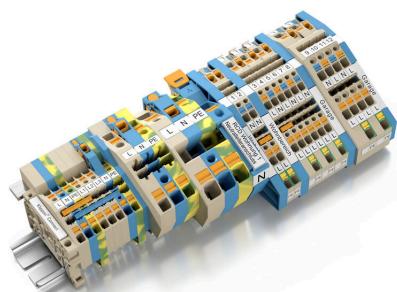
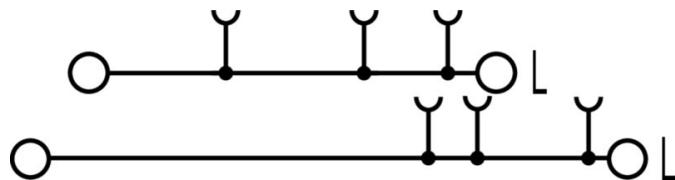
## Classifications

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	Version
Order No.	<a href="#">2669060000</a>	A-series, End plate
GTIN (EAN)	4064675030645	
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.	<a href="#">1991920000</a>	A-series, End bracket
GTIN (EAN)	4050118376722	
Qty.	50 ST	
Type	AEB 35 SCL/1 VO	Version
Order No.	<a href="#">2661280000</a>	A-series, End bracket
GTIN (EAN)	4050118702163	
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.

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## Accessories

## General ordering data

Type	ATPG 1.5-10 L	Version
Order No.	<a href="#">1991890000</a>	Test adapter (terminal), 1.5 mm <sup>2</sup> , 250 V, 0.2 A
GTIN (EAN)	4050118376647	
Qty.	50 ST	
Type	ATPG 2.5 MI-R	Version
Order No.	<a href="#">1991960000</a>	Test adapter (terminal), 1.5 mm <sup>2</sup> , 250 V, 0.2 A
GTIN (EAN)	4050118376685	
Qty.	50 ST	
Type	ATPG 2.5/3	Version
Order No.	<a href="#">2041190000</a>	Test adapter (terminal), 1.5 mm <sup>2</sup> , 250 V, 0.2 A
GTIN (EAN)	4050118409604	
Qty.	25 ST	
Type	ATPG 2.5/5	Version
Order No.	<a href="#">2041180000</a>	Test adapter (terminal), 1.5 mm <sup>2</sup> , 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.	<a href="#">0310000000</a>	PCB plug-in connector, Accessories, Test plug, red, Number of poles:
GTIN (EAN)	4008190000059	1
Qty.	20 ST	

## Fuse holder



The fuse holder SIHA quickly turns a disconnect terminal into a fuse terminal: simply remove the disconnect lever and attach the fuse unit.

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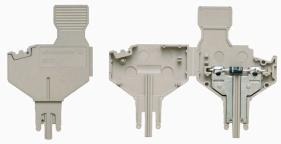
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## Accessories

## General ordering data

Type	SIHA 3/G20	Version
Order No.	<a href="#">7921560000</a>	Fuse holder for feed-through modular terminal, black, 6.3 A, pluggable, V-0, Wemid
GTIN (EAN)	4032248264643	
Qty.	25 ST	
Type	SIHA 3/G20/LD 10-36V	Version
Order No.	<a href="#">7921570000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA, pluggable, V-0, Wemid
GTIN (EAN)	4032248322503	
Qty.	25 ST	
Type	SIHA 3/G20/LD 140-250V	Version
Order No.	<a href="#">7921600000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA, pluggable, V-0, Wemid
GTIN (EAN)	4032248322633	
Qty.	25 ST	

## Component plugs



The component plug is used to integrate an electrical component in a disconnect terminal block. After soldering the electronic component, the plug can be integrated into the disconnection area of our disconnect terminal blocks and thus changes the disconnect terminal block into a modular terminal block with integrated electronic component.

## General ordering data

Type	BEST	Version
Order No.	<a href="#">1833100000</a>	Accessories, Component plug
GTIN (EAN)	4032248501014	
Qty.	50 ST	
Type	BEST/DRBR	Version
Order No.	<a href="#">1878570000</a>	Accessories, Component plug, 22 A
GTIN (EAN)	4032248471508	
Qty.	50 ST	
Type	BEST/D	Version
Order No.	<a href="#">1878560000</a>	Accessories, Component plug, 1 A
GTIN (EAN)	4032248471492	
Qty.	50 ST	

## Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

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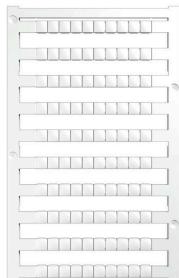
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## Accessories

## General ordering data

Type	TNST OR	Version
Order No.	<a href="#">2463540000</a>	Disconnect plug (terminal), Wemid, orange
GTIN (EAN)	4050118478211	
Qty.	50 ST	

## 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.

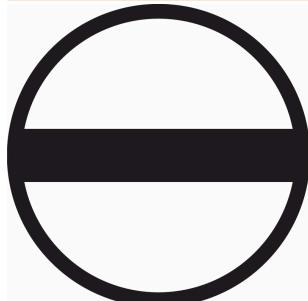
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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.	<a href="#">1854490000</a>	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.

## General ordering data

Type	SDIS SLIM 0.6X3.5X100	Version
Order No.	<a href="#">2749610000</a>	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118896350	thickness (A): 0.6 mm
Qty.	1 ST	

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## Accessories

## 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 VO BK	Version
Order No.	<a href="#">2661300000</a>	A-series, End bracket
GTIN (EAN)	4050118702187	
Qty.	20 ST	
Type	AEB 35 SCL/1 VO GY	Version
Order No.	<a href="#">2661290000</a>	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

## General ordering data

Type	DEK 5/5 MM WS	Version
Order No.	<a href="#">2007110000</a>	Dekafix, Terminal marker, 5 x 5 mm, Weidmueller, white
GTIN (EAN)	4050118391862	
Qty.	800 ST	

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## Accessories

## 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.	<a href="#">1527690000</a>	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.	<a href="#">1527540000</a>	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.	<a href="#">1527720000</a>	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.	<a href="#">1527570000</a>	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.	<a href="#">1527590000</a>	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.	<a href="#">1527620000</a>	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.	<a href="#">1527730000</a>	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.	<a href="#">1527630000</a>	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	
Type	ZQV 2.5N/7	Version
Order No.	<a href="#">1527640000</a>	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 7, Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm
GTIN (EAN)	4050118448412	
Qty.	20 ST	
Type	ZQV 2.5N/8	Version
Order No.	<a href="#">1527670000</a>	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles: 8, Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm
GTIN (EAN)	4050118448405	
Qty.	20 ST	

## AITB 2.5 L-L DL

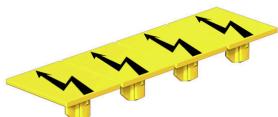
**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Accessories

Type	ZQV 2.5N/9	Version
Order No.	<a href="#">1527680000</a>	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	

## 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.	<a href="#">2635550000</a>	A-series, Terminal marker, 8 x 5.1 mm, Pitch in mm (P): 5.00 yellow
GTIN (EAN)	4050118674095	
Qty.	40 ST	

## Installation terminal blocks



**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

Type	AITB 16 BB NLO BL	Version
Order No.	<a href="#">266914000</a>	Multi level installation terminal block, PUSH IN, blue, 16 mm <sup>2</sup> , 76 A,
GTIN (EAN)	4064675266372	1000 V, Number of connections: 2, Number of levels: 1
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	FZS 2/4 RT/80 SAKT4	Version
Order No.	<a href="#">1276300000</a>	Plug (terminal), Plug-in connection, 2 mm <sup>2</sup> , Number of connections: 2,
GTIN (EAN)	4008190026080	Number of poles: 1, Width: 9 mm
Qty.	20 ST	