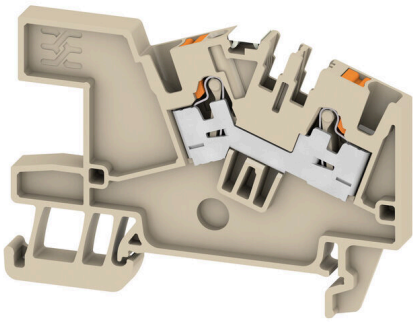
Data sheet

AITB 2.5 BB 2C DL

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 mm², 24 A, 800 V, Number of connections: 2, Number of levels: 1
Order No.	2782410000
Type	AITB 2.5 BB 2C DL
GTIN (EAN)	4064675058496
Qty.	50 items

Data sheet

AITB 2.5 BB 2C DL

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Technical data

Approvals

Approvals	

Dimensions and weights

Depth	43.6 mm	Depth (inches)	1.7165 inch
Height	63.8 mm	Height (inches)	2.5118 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	6.8 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temperature, min.	-60 °C	Continuous operating temperature, max.	130 °C

Environmental Product Compliance

Product Carbon Footprint	Cradle to gate	0.163 kg CO2 eq.

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	1
Number of levels	1	Number of clamping points per level	2
Mounting rail	TS 35	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	PUSH IN
Number of connections	2
Conductor cross-section (rated connection), max.	4 mm²
Conductor cross-section (rated connection), min.	0.14 mm²
Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 28

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Technical data

Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.14 mm²		
Wire connection cross-section, finely stranded, max.	4 mm²		
Wire connection cross section, finely stranded, min.	0.14 mm²		
Connection cross-section, stranded, max.	4 mm²		
Connection cross-section, stranded, min.	0.14 mm²		
Twin wire-end ferrules, max.	0.75 mm²		
Twin wire-end ferrules, min.	0.5 mm²		
Wire connection cross-section, solid core, max.	4 mm²		
Wire connection cross-section, solid core, min.	0.14 mm²		
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 mm²
		max.	0.34 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	1 mm²
	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	min.	1.5 mm²
		max.	2.5 mm²
Tube length for twin wire-end ferrule	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	0.75 mm²
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 mm²
	Tube length	min.	6 mm
		max.	10 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	1 mm²
	Tube length	min.	7 mm
		max.	12 mm
	Cross-section for conductor connection	min.	1.5 mm²
		max.	2.5 mm²

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

AITB 2.5 BB 2C DL

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Technical data

Rating data

Rated cross-section	2.5 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal current	24 A
Current at maximum wires	30 A	Standards	IEC 60947-7-1
Contact resistance	1.33 mΩ	Rated impulse withstand voltage	8 kV
Surge voltage category	III	Pollution severity	3

Classifications

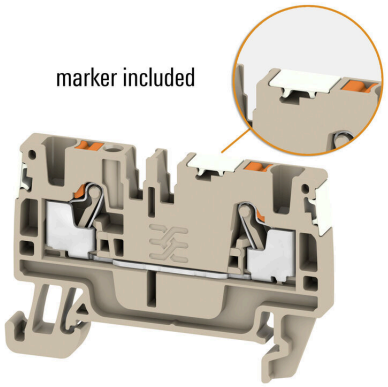
ETIM 8.0	EC001329	ETIM 9.0	EC001329
ETIM 10.0	EC001329	ECLASS 14.0	27-25-01-10
ECLASS 15.0	27-25-01-10		

AITB 2.5 BB 2C DL

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Drawings



AITB 2.5 BB 2C DL

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Accessories

End plates and partition plates

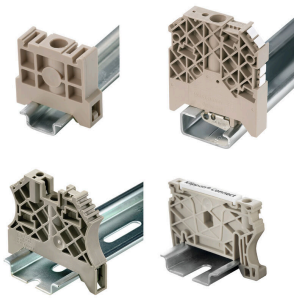


Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row 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 2C	Version
Order No.	2668780000	A-series, End plate
GTIN (EAN)	4064675030409	
Qty.	20 ST	
Type	AEP ITB 2.5 BB 2C BL	Version
Order No.	2668790000	A-series, End plate
GTIN (EAN)	4064675030416	
Qty.	20 ST	
Type	APP ITB 2.5 BB 2C/NDT BL	Version
Order No.	2668870000	A-series, Partition plate
GTIN (EAN)	4064675030461	
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	

AITB 2.5 BB 2C DL

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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 mm², 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 mm², 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 mm², 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 mm², 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

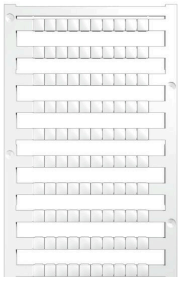


With our bus bars in various materials and the associated accessories, you can connect cables in the smallest installation space. Depending on the application, potentials can be collected, distributed or dissipated.

General ordering data

Type	SSCH 10X3X1000 CU/SN	Version
Order No.	0348900000	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.

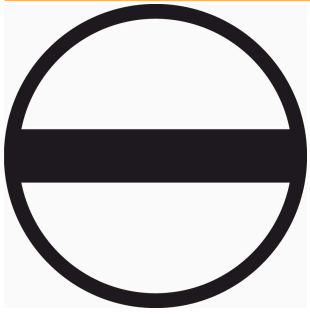
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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.	1854490000	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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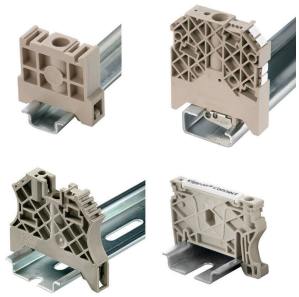
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Accessories

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

AITB 2.5 BB 2C DL

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

AITB 2.5 BB 2C DL

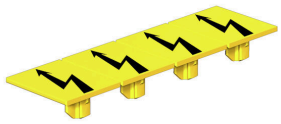
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Accessories

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	

Warning cover

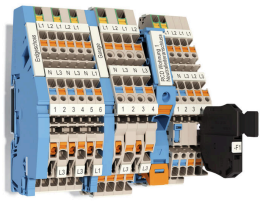


Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

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	

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.	2669140000	Multi level installation terminal block, PUSH IN, blue, 16 mm², 76 A,
GTIN (EAN)	4064675266372	1000 V, Number of connections: 2, Number of levels: 1
Qty.	20 ST	

AITB 2.5 BB 2C DL

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Accessories

Testadapter and testsockets



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General ordering data

Type	FZS 2/4 RT/80 SAKT4	Version
Order No.	1276300000	Plug (terminal), Plug-in connection, 2 mm², Number of connections: 2,
GTIN (EAN)	4008190026080	Number of poles: 1, Width: 9 mm
Qty.	20 ST	