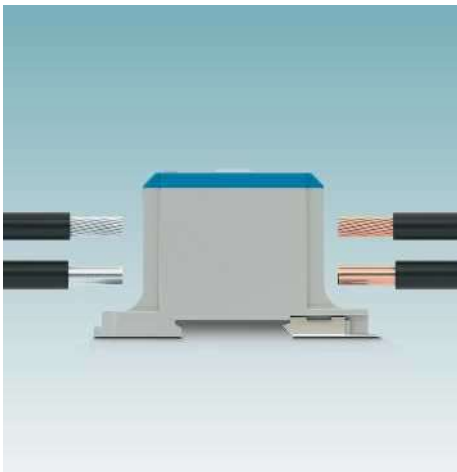


Terminal blocks – Classic

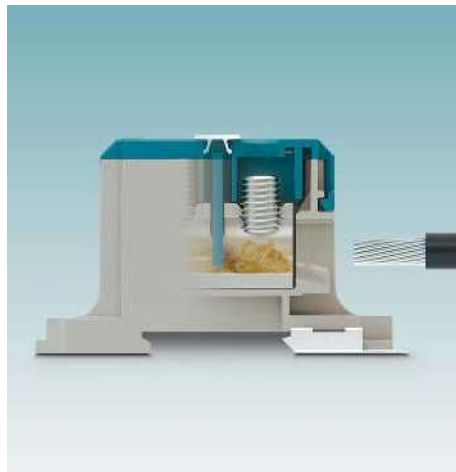
UBAL universal terminal blocks for aluminum conductors



The universal UBAL terminal blocks are suitable for the connection of aluminum and copper wire. Four cross-section sizes enable the connection of aluminum conductors from 6 to 240 mm² and copper wires from 2.5 to 240 mm².



The metal parts of the universal terminal blocks are produced from high-quality aluminum alloys. A lead-free tin coating on the clamping parts and screws enable the connection of aluminum and copper wires. The terminal blocks are suitable for both rigid and multi-stranded conductors.

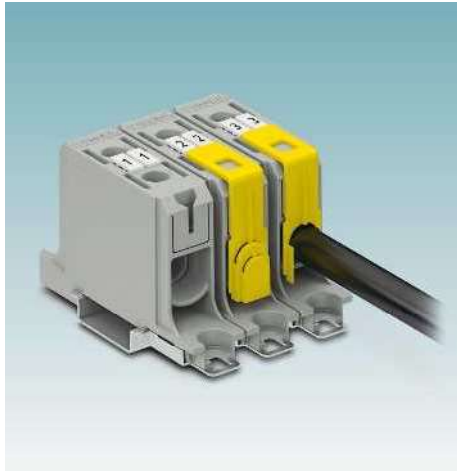


The contact chambers are coated with an antioxidant, simplifying the aluminum conductor mounting process. Another advantage is that the screws do not need to be tightened, meaning that the terminal blocks are maintenance-free.



The universal terminal blocks are certified for the connection of aluminum conductors in accordance with EN 61238-1 (Class A). Furthermore, they are approved in accordance with IEC 60947-7-1 and are suited in particular for photovoltaic applications. Therefore, the terminal blocks are tested for an operating temperature of 90°C.

UBAL terminal blocks for aluminum conductors



- Touch-protection caps cover the clamping space and the screw opening of the universal terminal blocks. The inadvertent touching of metal parts or opening of the terminal points is thus prevented
- A large area of the universal terminal blocks can be marked, thus enabling clear wiring
- PROJECT complete combines CAE software with the planning and marking processes. Thus, markings can be created simply and conveniently with the printing system from Phoenix Contact



Notes:

- 1) The maximum electrical data relates to the use of copper wires here.
- 2) The values for aluminum conductors relate to multi-stranded conductors in accordance with EN 60228.



145 A, feed-through terminal block

		Technical data			
Dimensions		Width	Length	Height NS 35/7,5	
	[mm]	19.2	82.5	51	
Dimensions		Width	Length	Height NS 35/15	
	[mm]	19.2	82.5	58.5	
Dimensions		Width	Length	Height	
	[mm]	19.2	82.5	51	
Maximum electrical data 1)		I _{max.} [A]	U _{max.} [V]	max. Ø [mm²]	AWG (UL)
		145	1000	6 - 50	-
Al conductor rated data		IEC 60947-7-1			
		IEC	UL / CUL	CSA	IEC/ EN 60079-7
Rated voltage	[V]	1000	-	-	-
Nominal current / cross section	[A] / [mm²]	145 / 50	-	-	-
Rated cross section	[mm²]	50	-	-	-
Cross section range	AWG	6 - 1/0	-	-	-
Cu wire rated data		IEC	UL / CUL	CSA	IEC/ EN 60079-7
Rated voltage	[V]	1000	-	-	-
Nominal current / cross section	[A] / [mm²]	160 / 50	-	-	-
Rated cross section	[mm²]	50	-	-	-
Cross section range	AWG	6 - 1/0	-	-	-
Al conductor connection capacity 2)		Rigid	Flexible	Ferrule without/with plastic sleeve	
1 conductor	[mm²]	6 - 35	6 - 50	-	-
2 conductors (of the same type)	[mm²]	-	-	-	-
Cu wire connection capacity		Rigid	Flexible	Ferrule without/with plastic sleeve	
1 conductor	[mm²]	2.5 - 16	2.5 - 35	2.5 - 35	-
2 conductors (of the same type)	[mm²]	-	1.5 - 16	-	-
General data					
Stripping length	[mm]	23			
Screw thread		M6			
Tightening torque		4 Nm (2,5 ... 4 mm²), 12 Nm (6 ... 50 mm²)			
Insulating material		PA			
Flammability rating in accordance with UL 94		V0			

Ordering data			
Type	Order No.	Pcs./Pkt.	
UBAL 50	1086465	20	
UBAL 50 BU	1086466	20	
UBAL 50 GN	1086468	20	
UBAL 50 BN	1086470	20	
UBAL 50 BK	1086469	20	
UBAL 50 FE	1086471	20	

Accessories			
CEC UBAL 50	1086473	25	
Center groove labeling	UCT-TM 5 or ZB 5 (see Catalog 3)		

Terminal blocks – Classic

UBAL universal terminal blocks for aluminum conductors

UBAL terminal blocks for aluminum conductors



- The universal terminal blocks are mounted conveniently on the 35 mm DIN rail or directly on the mounting plate
- Allen screws reliably transfer the various torques for aluminum and copper wires

Notes:

- 1) The maximum electrical data relates to the use of copper wires here.
- 2) The values for aluminum conductors relate to multi-stranded conductors in accordance with EN 60228.



245 A, feed-through terminal block

Dimensions

[mm]

Dimensions

[mm]

Dimensions

[mm]

Maximum electrical data 1)

[mm]

Al conductor rated data

[V]

[A] / [mm²]

[mm²]

AWG

Cu wire rated data

[V]

[A] / [mm²]

[mm²]

AWG

Al conductor connection capacity 2)

[mm²]

[mm²]

Cu wire connection capacity

[mm²]

[mm²]

General data

[mm]

Description

Terminal block

gray

blue

green

brown

black

yellow

Cover, for conductor shaft

yellow

Center groove labeling

Technical data

Width Length Height NS 35/7,5

25.1 93.6 58

Width Length Height NS 35/15

25.1 93.6 65.5

Width Length Height

25.1 93.6 58

I_{max} [A] U_{max} [V] max. Ø [mm²] AWG (UL)

245 1000 16 - 95 -

IEC 60947-7-1

IEC

UL / CUL

CSA

IEC/ EN 60079-7

1000 - - -

220 / 95 - - -

95 - - -

4 - 4/0 - - -

IEC UL / CUL CSA IEC/ EN 60079-7

1000 - - -

245 / 95 - - -

95 - - -

4 - 4/0 - - -

Rigid Flexible Ferrule

16 - 35 16 - 95 without/with plastic sleeve

- - - -

Rigid Flexible Ferrule

16 - 70 16 - 35 without/with plastic sleeve

- - - -

27

M8

20 Nm

PA

V0

Ordering data

Type Order No. Pcs./Pkt.

UBAL 95 1086475 10

UBAL 95 BU 1086476 10

UBAL 95 GN 1086477 10

UBAL 95 BN 1086479 10

UBAL 95 BK 1086478 10

UBAL 95 FE 1086480 10

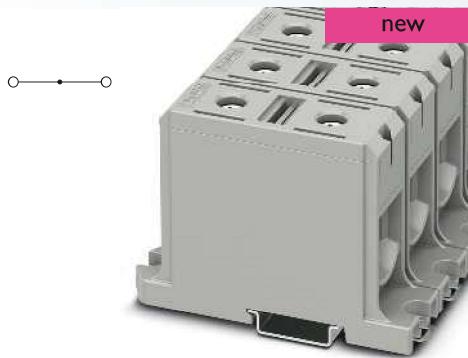
Accessories

CEC UBAL 50 1086473 25

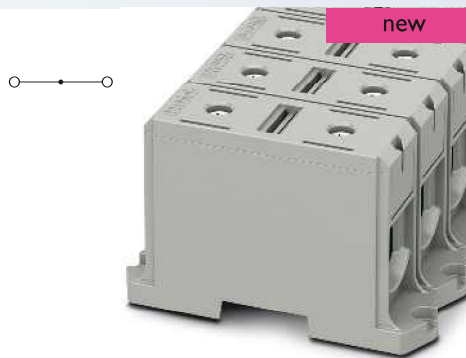
UCT-TM 8 or ZB 8 (see Catalog 3)



UBAL universal terminal blocks for aluminum conductors



320 A, feed-through terminal block



425 A, feed-through terminal block

Technical data			
Width	Length	Height NS 35/7,5	
30.5	105.5	67	
Width	Length	Height NS 35/15	
30.5	105.5	74.5	
Width	Length	Height	
30.5	105.5	67	
I_{max} [A]	U_{max} [V]	max. Ø [mm²]	AWG (UL)
320	1000	35 - 150	-
IEC 60947-7-1			
IEC	UL / CUL	CSA	IEC/ EN 60079-7
1000	-	-	-
290 / 150	-	-	-
150	-	-	-
300 - 2	-	-	-
IEC	UL / CUL	CSA	IEC/ EN 60079-7
1000	-	-	-
320 / 150	-	-	-
150	-	-	-
300 - 2	-	-	-
Rigid	Flexible	Ferrule without/with plastic sleeve	
-	35 - 150	-	-
-	-	-	-
Rigid	Flexible	Ferrule without/with plastic sleeve	
-	35 - 120	35 - 120	-
-	35 - 50	-	-
30			
M10			
20 Nm (35 ... 50 mm²), 30 Nm (120 ... 150 mm²)			
PA			
V0			

Technical data			
Width	Length	Height NS 35/7,5	
37.5	130	-	
Width	Length	Height NS 35/15	
37.5	130	-	
Width	Length	Height	
37.5	130	70	
I_{max} [A]	U_{max} [V]	max. Ø [mm²]	AWG (UL)
425	1000	35 - 240	-
IEC 60947-7-1			
IEC	UL / CUL	CSA	IEC/ EN 60079-7
1000	-	-	-
380 / 240	-	-	-
240	-	-	-
500 - 3/0	-	-	-
IEC	UL / CUL	CSA	IEC/ EN 60079-7
1000	-	-	-
425 / 240	-	-	-
240	-	-	-
500 - 3/0	-	-	-
Rigid	Flexible	Ferrule without/with plastic sleeve	
-	35 - 240	-	-
-	-	-	-
Rigid	Flexible	Ferrule without/with plastic sleeve	
-	35 - 185	35 - 185	-
-	35 - 70	-	-
43			
M12			
12 Nm (35 ... 70 mm²), 45 Nm (95 ... 240 mm²)			
PA			
V0			

Ordering data		
Type	Order No.	Pcs./Pkt.
UBAL 150	1086498	10
UBAL 150 BU	1086499	10
UBAL 150 GN	1086501	10
UBAL 150 BN	1086503	10
UBAL 150 BK	1086502	10
UBAL 150 FE	1086504	10

Accessories		
CEC UBAL 150	1086474	25
UCT-TM 10 or ZB 10 (see Catalog 3)		

Ordering data		
Type	Order No.	Pcs./Pkt.
UBAL 240	1086505	5
UBAL 240 BU	1086506	5
UBAL 240 GN	1086507	5
UBAL 240 BN	1086509	5
UBAL 240 BK	1086508	5
UBAL 240 FE	1086510	5

Accessories		
CEC UBAL 240	1090037	25
UCT-TM 12 or ZB 12 (see Catalog 3)		

Terminal blocks – Classic

Accessories

Test sockets PSBJ ...

- The test sockets are tailored to the special applications encountered in the energy supply industry
- The test socket PSBJ... is used in place of the normal bridge screw and ensures the voltage tap on a bridged group of terminal blocks



4 mm test socket, for URTK/S test disconnect terminal blocks



4 mm test socket, for UK terminal blocks with M4 bridge thread

ERC

ERC

Ordering data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Test socket , insulated, for the URTK/S terminal block, M3.5 thread							
	transparent	PSBJ 3,5/18/6 FARBLOS	0311391	10			
	white	PSBJ 3,5/18/6 WH	0311317	10			
	red	PSBJ 3,5/18/6 RD	0311320	10			
	blue	PSBJ 3,5/18/6 BU	0311333	10			
	yellow	PSBJ 3,5/18/6 YE	0311346	10			
	green	PSBJ 3,5/18/6 GN	0311359	10			
	violet	PSBJ 3,5/18/6 VT	0311362	10			
	gray	PSBJ 3,5/18/6 GY	0311375	10			
	black	PSBJ 3,5/18/6 BK	0311388	10			
Test socket , insulated, can be used only with FBI and ISSBI							
	silver				PSBJ 3/13/4	0201304	10
Test socket , insulated, for UK 6 N, UK 10 N and URTK/SP and USST 10 terminal blocks, M4 thread							
	transparent				PSBJ 4/15/6 FARBLOS	0303419	10
	white				PSBJ 4/15/6 WH	0303312	10
	red				PSBJ 4/15/6 RD	0303325	10
	blue				PSBJ 4/15/6 BU	0303354	10
	yellow				PSBJ 4/15/6 YE	0303367	10
	gray				PSBJ 4/15/6 GY	0303396	10
	black				PSBJ 4/15/6 BK	0303406	10
Test socket , fully isolated, for safety test plugs							
For the UK 5 N terminal block, thread M3	gray						
For the UK 6 N terminal block, thread M4	gray						
Can be used only with FBI 10-6, thread M3	gray						
Can be used only with FBI 10-8, thread M4	gray						
Test socket , insulated							
	transparent						
	red						
	blue						
	yellow						
	green						
	violet						
	black						
	gray						
	brown						
Test socket , fully insulated, touch-proof in accordance with BGV A 2, for 4 mm Ø safety measuring leads, for universal test disconnect terminal block URTK/S, M3.5 thread							
	red						
	blue						
	yellow						
	green						
	violet						
	black						



**4 mm test socket, for SRTK 6 and
URTK 6 test disconnect terminal blocks,
M3 thread**



EAC

Ordering data		
Type	Order No.	Pcs./Pkt.

[illegible]