



TERMINAL BLOCKS AND CONNECTORS FOR LINE VOLTAGE CONNECTION













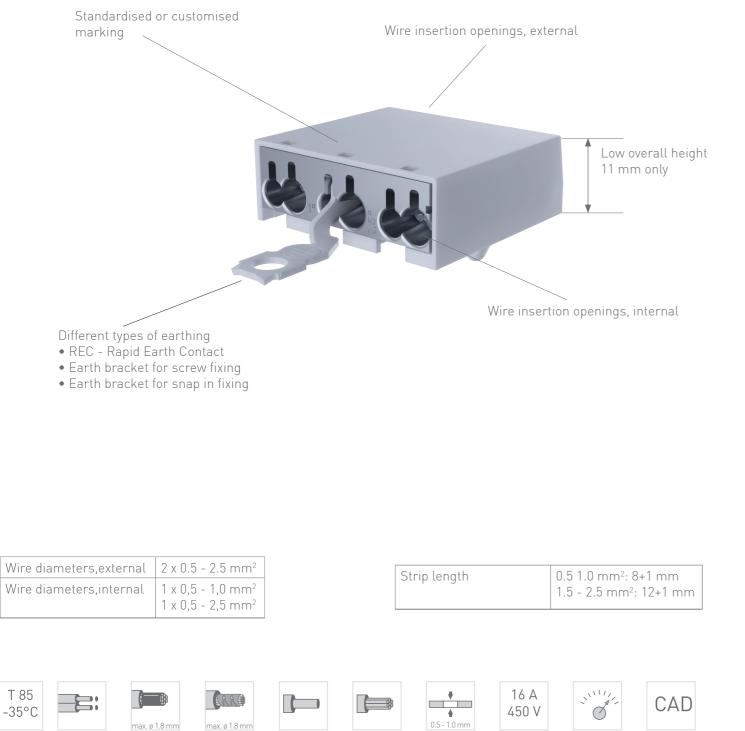
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- Easy and secure assembly
- High performance plastics
- Proven push wire technology
- Wire release function
- Industry leading contact design

Terminal blocks for line voltage connection - Flat Connect Push wire / Releaseable contacts

Terminal blocks for line voltage connection -Flat Connect - Push wire / Releaseable contacts



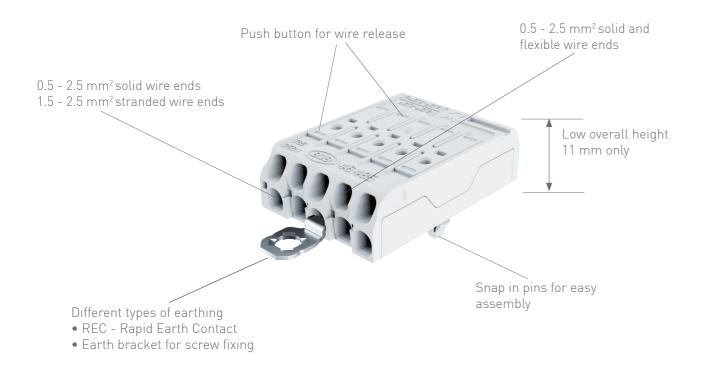
				Fixi	ng				
part no.		number of poles	height	Snap in pins	Screw fixing	Rapid- Earth- Contaxt	Earth bracket Screw fixing	Earth bracket snap in	Accessories
46.433.1100.50 without marking	444	3	11 mm	Х					
46.433.1111.50	444	3	11 mm	Х					
46.433 .1115.50	- Alto	3	11 mm	Х		Х			
46.433.1114.50	444	3	11 mm	Х			Х		
46.433.1125.50	H HA	3	11 mm	Х				Х	
46.435.1100.50 without marking		5	11 mm	Х					
46.435.1111.50	***	5	11 mm	Х					
46.435.1115.50	HAHI	5	11 mm	Х		Х			
46.435.1114.50	H H 14 H H	5	11 mm				Х		
46.435.1117.50	HHHHH	5	11 mm					Х	
46.435. 1215.50	1 All 1	5	11 mm		Х	Х			
46.435. 1200.50 without marking		5	11 mm		Х				
46.435. 1211.50		5	11 mm		х				

46.435. 1100.50 without marking		5	11 mm	х	
46.435.1111.50	***	5	11 mm	Х	
46.435. 1115.50	HAH	5	11 mm	х	
46.435 .1114.50	H H /A HA HA	5	11 mm		
46.435. 1117.50	HHHHH	5	11 mm		
46.435. 1215.50	1/41/1	5	11 mm		
46.435. 1200.50 without marking		5	11 mm		
46.435. 1211.50		5	11 mm		

- Very flat, space-saving size
- Ideal for luminaires with very low height
- Push button for quick release of wires for upper terminal connection
- Lower terminals can be released by Twist and Pull
- Different types of earthing

Flat terminal blocks for line voltage connection Push wire / Releaseable contacts

Flat terminal blocks for line voltage connection Push wire / Releaseable contacts



				Fixing	Type of e	earthing
part no.		Number of poles	Height	Snap in pins	Rapid-Earth- Contact	Earth bracket Screw fixing
46.485.1115.50	150 - 2 T	5	11 mm	х	Х	
46.485. 1114.50	Ser 1	5	11 mm	х		Х

Wire diameters,external	2 x 0.5 - 2.5 mm ²
Wire diameters, internal	1 x 0,5 - 1,0 mm ²
	1 x 0,5 - 2,5 mm ²

Strip length	0.5 - 1.0 mm ² : 8+1 mm
	1.5 - 2.5 mm ² : 12+1 mm

Approvals: ÖVE Reg. Compliance with creepage distances and clearances (eg according to EN 60598) has to be ensured by the structural design of the luminaire.



- Easy and secure assembly
- High performance plastics
- Wire release function
- Huge range of standard markings are available
- Customised marking on request
- Industry leading contact design

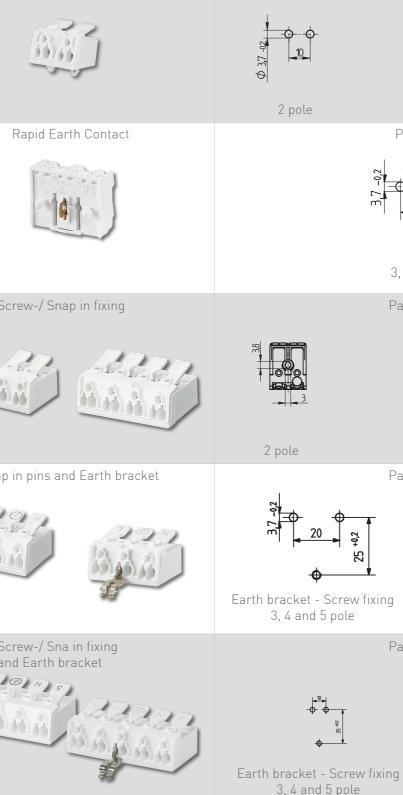
Terminal blocks for line voltage connection -Push wire / Releaseable contacts

Standardised or customised Test openings for automatic marking Wire release facility final testing Wire insertion openings, external/ Rapid Earth Contact Wire insertion openings, internal Suppression capacitor: 1 x 0.5 - 0.75 mm², not releasable Screw-/ Snap in fixing Different types of earthing • REC - Rapid Earth Contact Wire insertion openings, internal • Earth bracket for screw fixing • Earth bracket for snap in fixing Snap in pins and Earth bracket Wire diameters, external 2 x 0.5 - 2.5 mm², 0.5 1.0 mm²: 8+1 mm Strip length with release facility 1.5 - 2.5 mm²: 12+1 mm Suppresion capacitor: 8±1 mm Wire diameters, internal 1 x 0,5 - 1,0 mm², releaseable 1 x 0,5 - 2,5 mm², releaseable Screw-/ Sna in fixing and Earth bracket NIII, 16 A T 85 CAD -35°C 450 V Ø 0.5 - 1.0 n max. ø 1.8 mm

For more and detailed information visit: www.bjb.com

Terminal blocks - Fixing / Type of earthing

Snap in pins





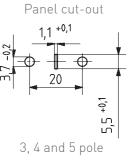
Rapid Earth Contact

The REC provides an electrical connection between the earth pole of the terminal block and the mounting plate also a mechanical connection is made in addition to the electrical connection.

Panel cut-out



3, 4 and 5 pole



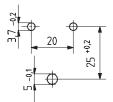
Panel cut-out



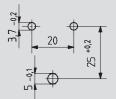
3, 4 and 5 pole

Panel cut-out

Panel cut-out



Earth bracket - snap in 3, 4 and 5 pole



Earth bracket - snap in 3, 4 and 5 pole

Terminal blocks for line voltage connection Push wire / Releaseable contacts





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Snap in pins

Screw-/ Snap in fixing

Rapid Earth Contact

					Fixing	Туре	e of earthing							Fix	ing		Type of earthing		
part no.		number of poles	height	Snap in pins	Screw-/ Snap in fixing	Rapid Earth Contact	Earth bracket Screw fix	Earth bracket snap in	Accessories	part no.		number of poles	height	Snap in pins	Screw Snap in fi		Earth bracket t Screw fix	Earth bracket snap in	Accessories
46.411.7000.50		1	17 mm							46.414. 1100.50	BABA	4	17 mm	Х					Cable clamps see below
										46.414. 1119.50		4	17 mm	х				Х	Cable clamps see below
46.412.1100.50	BR	2	17 mm	Х					Cable clamps see below	46.414. 1125.50		4	17 mm	Х		Х			Cable clamps see below
46.412.1200.50		2	17 mm		Х				Cable clamps see below	46.414. 1124.50		4	17 mm	Х			Х		Cable clamps see below
										46.414. 1200.50	A.L.L.L.	4	17 mm		х				Cable clamps see below
46.413.1100.50	BAR)	3	17 mm	Х					Cable clamps see below	46.414. 1214.50	A LA PART	4	17 mm		х		Х		Cable clamps see below
46.413.1115.50		3	17 mm	х		х			Cable clamps see below	46.415. 1100.50		5	17 mm	Х					Cable clamps see below
46.413.1114.50		3	17 mm	х			х		Cable clamps see below	46.415. 1115.50		5	17 mm	Х		х			Cable clamps see below
46.413.1125.50		3	17 mm		Х			Х	Cable clamps see below	46.415. 1114.50		5	17 mm	Х			Х		Cable clamps see below
46.413.1200.50	Shin R	3	17 mm		Х				Cable clamps see below	46.415. 1117.50	22222 3.3.3.5	5	17 mm	Х				Х	Cable clamps see below
46.413.1302.50	(Bar)	3	17 mm	for Wieland gesis®			х		Cable clamps see below	46.415. 1200.50	AAAAA	5	17 mm		Х				Cable clamps see below
				Adaptor						46.415. 1214.50	2.701.77	5	17 mm		Х		Х		Cable clamps see below
Accessories fo	r terminal bl	ocks			Access	ories for te	rminal blocks	;		Accessories fo	r terminal blo	cks				Accessories for	terminal blocks	5	
46.412. -350.50		ES b	or use with locks 46.4 ′ vith positior	12.		371.50		For use blocks 4	with terminal 6.413.	46.413. -352.50		b blo	ocks 46.4	n terminal 14 - 46.415 itioning aid		46.903. -371.50	Cox (SU)	blocks	with all terminal
46.412. -371.50	111	F	or use with locks 46.4 ′	n terminal	46.903	371.50	Un las	blocks	with all terminal positioning aid	46.413. -371.50		Fo	r use with	n terminal 14 - 46.415		46.411. -371.50	Star Star	blocks	vith all terminal
46.413. -352.50	(e) (e)	b	or use with locks 46.4 ′ ith positior	13.		371.50	Ser 15	blocks	with all terminal positioning aid	This overview sh More details and			r program	for terminals	s and conne	ctors.			







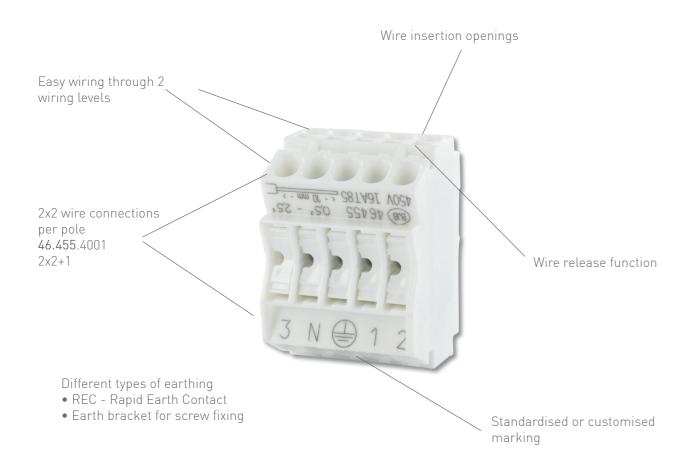
Earth bracket Screw fixing



Earth bracket snap in fixing

- High performance plastics
- Wire release function
- Slim form width only 26 mm
- Also for the luminaire connection from outside
- Industry leading contact design

Rast5 - Terminal blocks for line voltage connection -Push wire / Releaseable contacts



Rast5 - Terminal blocks for line voltage connection Push wire / Releaseable contacts

				Fixing		Type of earth	ning	
part no.		number of poles	height	Snap in pins	for recessed embodiment	Rapid Earth Contact	Earth bracket Screw fixing	Accessories
46.455. 3111.50		5	24 mm	Х				
46.455. 3114.50	· · · · · · · · · · · · · · · · · · ·	5	24 mm	Х			х	
46.455. 3115.50		5	24 mm	Х		Х		
46.455. 4001.50		5	24 mm		Х			Adaptor, cover

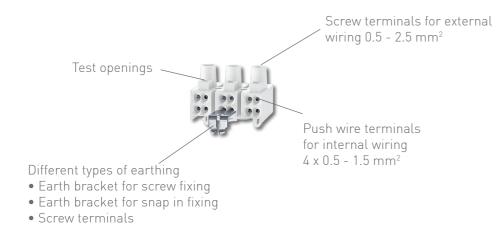
Accessories for terminal blocks 46.455.4001.50

46.455. -303.50	- And	Adaptor for recessed embodiment
46.455. -801.50		Cover

16 A T 85 ÷ CAD LAAF -35°C 450 V 0.5 - 1.0 mm 0.5 - 2.5mm² max. ø 1.8 mm max. ø 1.8 mm max. ø 1.8 mm

- Wide screw terminals
- Push wire terminals
- High performance plastics
- Industry leading contact design

Terminal blocks for line voltage connection -Screw-/ Push wire terminals



Terminal blocks -Screw-/ Push wire terminals

			I	Fixing		
part no.	number of poles	height	Snap in pins	Screw-/ Snap in fixing	Earth bracket	Accessories
48.511 .0311.51	3	19.7 mm	Х			Cable clamps
48.112. 0300.51	3	19.7 mm	Х			Cable clamps
48.112. 0313.51	3	19.7 mm	Х		Х	Cable clamps
48.112. 0314.51	3	19.7 mm	Х		Х	Cable clamps
48.212. 0300.51	3	19.7 mm		Х		Cable clamps
48.212. 0313.51	3	19.7 mm		Х	Х	Cable clamps
48.141. 0311.51	3	21.2 mm		Х		Cable clamps
48.221. 0311.51	3	21.2 mm		Х		Cable clamps
48.511. 0411.51	4	19.7 mm	Х			Cable clamps
48.121. 0411.51	4	21.2 mm	Х			Cable clamps
48.221. 0411.51	4	21.2 mm		Х		Cable clamps

Accessories for to	Accessories for terminal blocks					
46.903. -371.50	and the second	For use with above shown terminal blocks without positioning aid				
46.411. -371.50	Ser Cor	For use with above shown terminal blocks without positioning aid				

450 V max. ø 3.4 mm

16 A

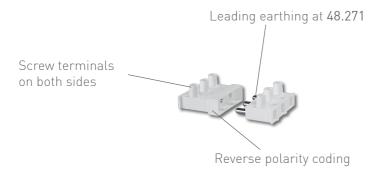
CAD

For more and detailed information visit: www.bjb.com

T 85

- Variety of x-pole versions (x=1 pole to 5 pole)
- Some versions are with leading earth
- Also versions with integrated fuse holder
- High performance plastics
- Industry leading contact design

Connectors for line voltage connection



Connectors

				Fixing		
part no.		number of poles	height	Snap in pins	Screw fixing	Accessories
48.281. 7200.80	-	2	18.2 mm		Х	
48.281. 8200.80	der 👘	2	18.2 mm		Х	
48.581. 7200.80		2	18.2 mm		Х	Cover for contacts, cable clamps
48.581. 8200.80	4	2	18.2 mm		Х	Cover for contacts, cable clamps
48.281. 7300.80		3	18.2 mm		Х	
48.281. 8300.80		3	18.2 mm		Х	
49.571. 0313.81 integrated fuse holder		3	31.4 mm	Х		Cable clamps, cover
48.271. 0311.51 leading earth		3	16.8 mm		Х	Cable clamps, cover
48.281. 7400.80		4	18.2 mm		Х	
48.281. 8400.80		4	18.2 mm		Х	
48.281. 7500.80	and the	5	18.2 mm		Х	
48.281. 8500.80	de la	5	18.2 mm		Х	

Accessories		
48.900. -501		Cover for contacts for 48.581. 7200/8200
48.900. U503		Cable clamp for 48.581. 7200/8200
49.571. U501	A A	Cable clamp for 49.571. 0313



Accessories		
49.571. -502		Cover for cable clamp 49.571. U501
48.271. U501	8. 0 C C	Cable clampe for 48.271. 0311
48.271. -502		Cover for cable clamp 48.271. U501

- Variety of x-pole versions (x=1 pole or 3 pole)
- For fine fuses: 5 x 20
- For fine fuses: 6 x 25
- High performance plastics
- Industry leading contact design

Terminal blocks for line voltage connection -Fused terminal blocks



			Fixing			
part no.		number of poles	Fuse dimension	Snap in pins	Screw-/ Snap in fixing	Accessories
49.112. 1001.50 Housing: PA 6.6		1	6 x 25 mm	Х		
49.116. 1000.50 Housing: PBT	A DALA	1	5 x 20 mm	Х		
49.132. 3001.51 Housing: PA 6.6	20 m m	3	6 x 25 mm	Х		
49.152. 3001.51 Housing: PBT		3	5 x 20 mm	Х		
49.152. 3003.80 Housing: PBT	999	3	5 x 20 mm	Х		
49.152. 3004.51 Housing: PBT		3	5 x 20 mm	Х		

The REC provides an electrical connection between the earth pole of the terminal block and the mounting plate also a

pole of the terminal block and the mounting plate also a mechanical connection is made in addition to the electrical connection.

Terminal blocks with earth contact (Rapid-Earth-Contact (REC))

Metalwork specification

Technical information -

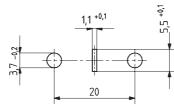
Acceptable materials: All types of steel plate in common usage (Aluminium plate is not suitable, because the earth contacts are made of a copper alloy).

Permissible thickness: 0.5 - 1.0 mm

Surface: Must be protected against corrosion (e. g. steel plates may be plated, painted or plastic coated).

Cut-outs

The cut-outs must correspond with the following drawing. Rapid-Earth-Contact:



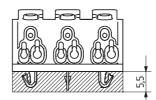
The diameter of the fixing holes allows for a finish to be applied.

The dimensions of the cut-out for the earth contact must correspond to those stated. A maximum punching tolerance of 0.1 mm is permissible in the direction of insertion.

Approvals

The terminal blocks are approved to EN 60998.

Embodiment



The risk of damage to the Rapid Earth Contact (see shaded area of drawing above) during production, packing, transport, assembly, as well as distribution of the light fittings must be eliminated by the method of construction.

- For example:
- Assembly onto a separate component carrier inside the light fitting (e.g. bus)
- Increased construction
- Depressions or spacers in suitable positions and of a suitable size.

The design detail is therefore dependent on embodiment, metalwork stability and the specific production methods of the user.

We recommend an agreement is made with the relevant test house.

For more and detailed information visit: www.bjb.com

Assembly

The terminal block must be inserted into the cut-out at right angles to the metalwork.

Pressure to snap in the terminal block should only be applied when correctly positioned above the cut-out.

Depending upon the construction of the fitting and the material used, it may be necessary to support the metalwork in the area of the cut-out during installation to eliminate the possibility of distortion, thus ensuring correct location and contact of REC.

Distortion of the snap in pins must be avoided.

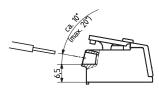
It must be ensured that the snap in pins as well as the REC have located correctly.

Testing

Once fully assembled, the light fitting must undergo a full electrical final test for earth continuity according to IEC IEC 60598.

Wire connection and wire release options:

- Incoming mains supply cables can be released by depressing the lever above the contact.
- Wiring may be inserted at an angle between 0° and 20° (optimal 10°)



- · When embodying the terminal blocks, ensure
- sufficient space is allowed for connections to be made.
- The surrounding rim must lie flat.
- The cables must not exert any bending forces onto the terminal block contacts during connection.

To avoid exceeding the nominal currents steps must be taken during the design and installation of lighting systems to avoid operating conditions that require the terminal block to perform outside its design parameters.

Examples:

- Long lasting ignition procedures with resulting increase in current
- Non-symmetrical load distribution in three-phase lighting systems (compensation currents) e.g. through
- Uneven number of light fittings per phase
- Lamp failures
- On and off switching of individual strands
- Failure of phases
- Upper waves of the operating currents can add up in the neutral wire.

Especially during installation of light strips or lighting groups, large current carrying capacity is achieved through sliding through of the wires.

About BJB

BJB was founded in 1867 by Friedrich Wilhelm Brökelmann, Franz Jäger and Gustav Busse. The business began as a factory for petroleum lamps and developed into a company which manufactured components for establishing the connection between power supply and light. Today, BJB is a lighting technology brand which supplies innovative solutions to the lighting and domestic appliance industries worldwide.

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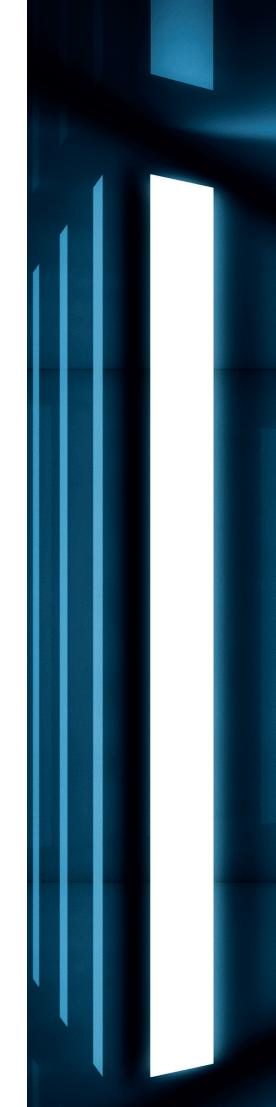
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