

Interfaces and Inputs/Outputs

AB1 RRN terminal blocks

For a fast and reliable connection,
immediate boarding!



Simply Smart!

Leveraging
ingenuity
and intelligence
for **ease of use**

AB1 RRN terminal blocks

New spring technology offer

New AB1 RRN spring technology terminal blocks uses the most cost-effective connection technique on the market. It considerably reduces wiring time compared to screw technology and also eliminates scheduled maintenance programs of retightening.

Spring technology is a maintenance-free connection method assuring separation of mechanical and electrical functions. It enables connection of flexible conductors with or without cable ends, and of rigid conductors in nominal sections 0.13 mm² to 35 mm².



3 connection technologies



Direct plug-in whatever the conductor type: rigid or flexible with or without cable ends.

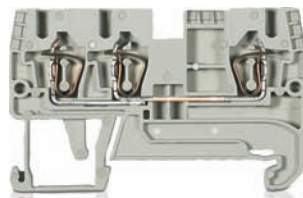


Spring technology type AB1 RRN

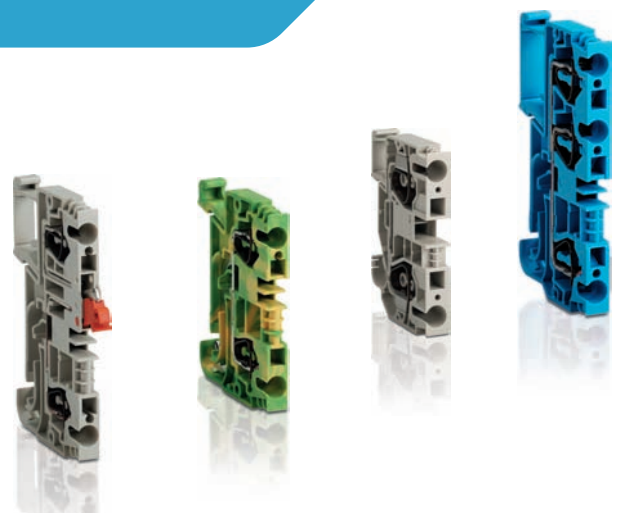
Quick and reliable

Spring technology terminal block installation is quick and easy. Insertion of a screwdriver opens the connection point and enables introduction of the conductor in the cage. When the screwdriver is removed, contact is established automatically thanks to pressure exerted by the spring.

The material used for AB1 RRN terminal blocks (polyamide 6.6) offers improved resistance to high temperatures. Flammability class of these products is V0 according to UL 94.



- Speed and ease of installation
- Resistance to vibrations and shocks
- Wide connection section range
- Extensive accessories range
- Possibility of potential distribution using commoning bars
- Several marking surfaces
- Possibility of testing all terminal blocks
- Conformity to international standards
- Products manufactured in conformity with requirements of the RoHS European Directive (Restriction of Hazardous Substances).



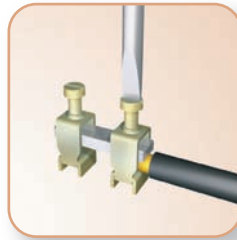


➔ **Screw** technology type AB1 W *Rugged and reliable*

AB1 W screw technology terminal blocks, recognised and used worldwide, respond to the vast majority of connection applications thanks to their wide range of functions and connection possibilities.

They assure not only the quality, safety and availability of equipment, but also optimise installation setup and operation thanks to their simplicity and integrated functions.

The material used (polyamide 6.6) offers improved resistance to high temperatures. Flammability class of these products is V0 according to UL 94.



- Extended range of functions
- Wide connection section range
- Extensive accessories range
- Several marking surfaces
- Test possibilities
- Conformity to international standards
- Products manufactured in conformity with requirements of the RoHS European Directive (Restriction of Hazardous Substances).



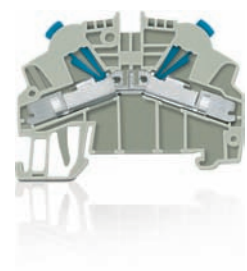
➔ **Insulation displacement** technology type AB1 AA *Quick and innovative*

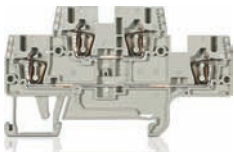
Insulation displacement technology completes the existing connection offer. Its installation is quick and innovative. Just cut the wire to the desired length without stripping and insert it in the wire guide with the help of a screwdriver. Contact is established when the screwdriver is removed towards the centre of the terminal block...

AB1 AA terminal blocks are in the same material as screw and spring terminal blocks: polyamide 6.6.



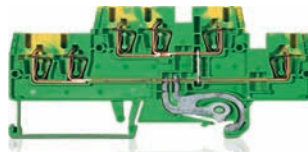
- Time saved on conductor preparation
- Installation without wire stripping or crimping
- No specific tooling required
- Numerous accessories
- High resistance to vibration thanks to technology: screw tightening eliminated
- Conformity to international standards
- Products manufactured in conformity with requirements of the RoHS European Directive (Restriction of Hazardous Substances).





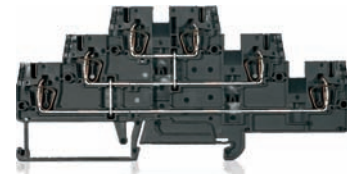
> **Double deck terminals**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREY
2.5 mm ²	2/2	AB1 RRNET235U4
2.5 mm ²	3/3	AB1 RRNET235T6
2.5 mm ²	2/2/2	AB1 RRNET235U6
4 mm ²	2/2	AB1 RRNET435U4



> **Double deck terminals protective earth**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREEN/YELLOW
2.5 mm ²	2	AB1 RRNETP235U4
2.5 mm ²	6	AB1 RRNETP235U6
2.5 mm ²	6	AB1 RRNETP235T6
4 mm ²	4	AB1 RRNETP435U4



> **Double deck terminals vertical connection (with common points)**

NOMINAL SECTION	NO. OF POINTS	COLOUR BLACK
2.5 mm ²	4	AB1 RRNETV235U4
2.5 mm ²	6	AB1 RRNETV235U6
2.5 mm ²	6	AB1 RRNETV235T6
4 mm ²	4	AB1 RRNETV435U4



8 functions...

A new range of spring technology terminal blocks with extended connection possibilities:



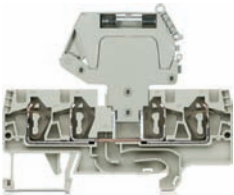
> **Passthrough terminals**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREY	BLUE	BLACK
2.5 mm ²	2	AB1 RRN235U2GR	AB1 RRN235U2BL	
2.5 mm ²	3	AB1 RRN235U3GR	AB1 RRN235U3BL	
2.5 mm ²	4	AB1 RRN235U4GR	AB1 RRN235U4BL	
2.5 mm ²	2/2			AB1 RRNP235UNO
4 mm ²	2	AB1 RRN435U2GR	AB1 RRN435U2BL	
4 mm ²	3	AB1 RRN435U3GR	AB1 RRN435U3BL	
4 mm ²	4	AB1 RRN435U4GR	AB1 RRN435U4BL	
6 mm ²	2	AB1 RRN635U2GR	AB1 RRN635U2BL	
6 mm ²	3	AB1 RRN635U3GR	AB1 RRN635U3BL	
10 mm ²	2	AB1 RRN1035U2GR	AB1 RRN1035U2BL	
10 mm ²	3	AB1 RRN1035U3GR	AB1 RRN1035U3BL	
16 mm ²	2	AB1 RRN1635U2GR	AB1 RRN1635U2BL	
16 mm ²	3	AB1 RRN1635U3GR	AB1 RRN1635U3BL	
35 mm ²	2	AB1 RRN3535U2GR	AB1 RRN3535U2BL	



> **Protective earth terminals**

SECTION NOMINALE	NBRE DE PTS	COULEUR VERT/JAUNE
2,5 mm ²	2	AB1 RRNTP235U2
2,5 mm ²	3	AB1 RRNTP235U3
2,5 mm ²	4	AB1 RRNTP235U4
4 mm ²	2	AB1 RRNTP435U2
4 mm ²	2	AB1 RRNTP435U3
4 mm ²	3	AB1 RRNTP435U4
6 mm ²	4	AB1 RRNTP635U2
6 mm ²	2	AB1 RRNTP635U3
10 mm ²	3	AB1 RRNTP1035U2
10 mm ²	2	AB1 RRNTP1035U3
16 mm ²	3	AB1 RRNTP1635U2
16 mm ²	2	AB1 RRNTP1635U3
35 mm ²	3	AB1 RRNTP3535U2



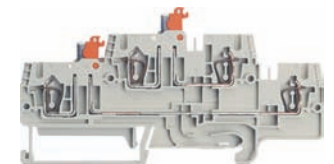
> **Disconnect terminals diode or fuse carrier**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREY
2.5 mm ²	2/2	AB1 RRNSF435UGR



> **Disconnect terminals**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREEN/YELLOW
2.5 mm ²	2	AB1 RRNSC235U2
2.5 mm ²	3	AB1 RRNSC235U3
2.5 mm ²	4	AB1 RRNSC235U4

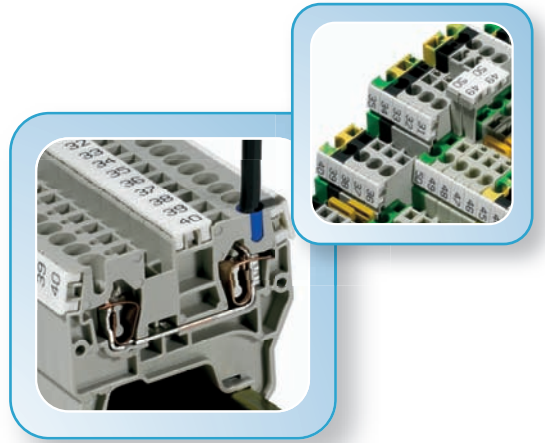


> **Disconnect terminals double deck**

NOMINAL SECTION	NO. OF POINTS	COLOUR GREY
2.5 mm ²	2/2	AB1 RRNSCE235U4
2.5 mm ²	2/3	AB1 RRNSCE235U5

* Marking accessories *Quick and easy marking*

An essential condition for producing an installation in minimum time is clear and readable marking: this is the case for the AB1 RRN range that enables easy marking on centre and sides of products.

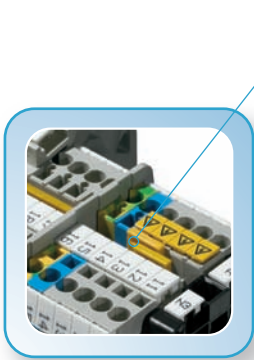


Easy terminal block marking using markers type AB1B*, AB1G* & AB1 R*

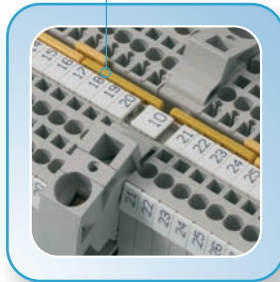


3 accessory types...

The spring technology terminal block range offers a **complete range of accessories** including:



Interconnection by insulated commoning links type AB1 RRAL*

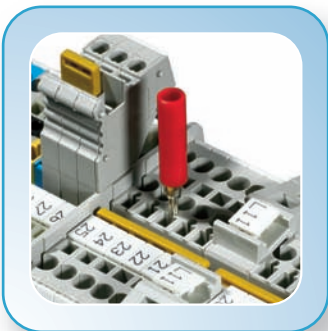


Interconnection by potential distribution terminal block AB1 RRNR1635UGR

* Connection accessories *Terminal blocks interconnection*

Use of insulated 2 to 10-pole commoning links enables interconnection of a large number of terminal blocks: this considerably reduces wiring time.

It is also possible to interconnect large (16 mm²) and small nominal section (2.5 and 4 mm²) terminal blocks with the potential distribution terminal block.



Application testing using test plug AB1 AT1 or modular test connectors AB1 AT3

* Test accessories *Tests and adaptations*

Each AB1 RRN range terminal block can accept a test plug in direct contact with conductors.

Modular test connectors enable individual adaptations and possibility of marking.



Don't forget!

Telemecanique offers AZ5* & DZ5* ranges of cable ends to simplify wiring and ensure optimum electrical continuity between cable and terminal block.



General characteristics:

- Electrolysis tinned copper tube according to ISO1337.
- Halogen-free plastic insulating bezel.
- Temperature resistance -20°C to 105°C.
- Conforming to standards NFC 63-023 or DIN 46228.
- UL and cCSAus certifications for certain products.



The efficiency of Telemecanique branded *solutions*

Used in combination, Telemecanique products provide quality solutions, meeting all your **Automation & Control** applications requirements.



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