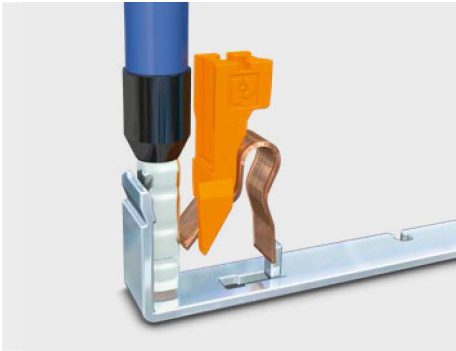


Terminal blocks

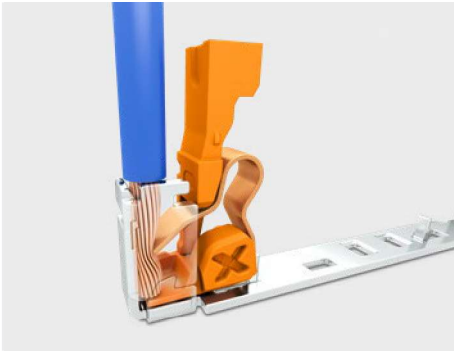
The requirements around components for railway infrastructure are stringent. They are used in safety-relevant applications and safeguard the availability of railway operations. Furthermore, in modern rail vehicles, the need for usable area and traveling comfort is growing. At the same time, less and less space is available for the required installations. Phoenix Contact supplies compact connection solutions with various numbers of positions, conductor cross-sections, and installation options that are particularly well-suited for space-saving electrical wiring.



Connection technologies for railway applications



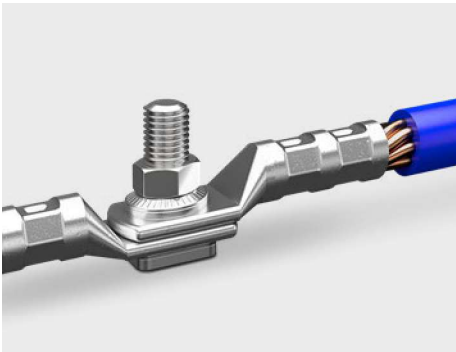
Push-in connection



Push-X connection



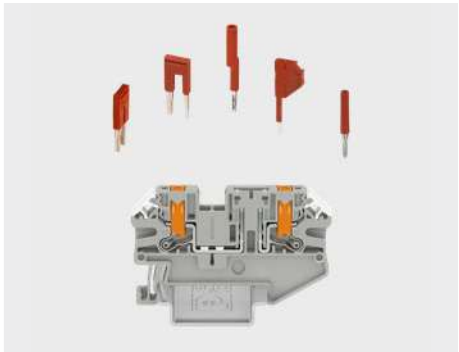
Plug-in connection



Bolt connection



Spring-cage connection



Accessories

Product list to download

Due to the large number of terminal block items, we offer our railway-specific portfolio as an Excel list to download:

phoenixcontact.com/railway_article_list



	A	B	C	D	E	F	G
1				EN 45545-2			EN 50155
2	Item number	Type description	R22	R23	R24	R26	EN 61373 broadband noise
3	3209510	PT 2,5	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
4	3209523	PT 2,5 BU	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
5	3209536	PT 2,5-PE	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
6	3209549	PT 2,5-TWIN	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
7	3209565	PT 2,5-TWIN-PE	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
8	3209578	PT 2,5-QUATTRO	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
9	3209594	PT 2,5-QUATTRO-PE	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
10	3210156	PT 2,5-MT	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
11	3210157	PT 2,5-MTB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
12	3210163	PT 2,5-MTB BU	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
13	3210169	PT 2,5-TWIN-MT	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
14	3210170	PT 2,5-TWIN-MTB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
15	3210172	PT 2,5-QUATTRO-MT	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
16	3210184	PT 2,5-QUATTRO-MTB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
17	3210185	PT 2,5-TG	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
18	3210191	PT 2,5-QUATTRO-MTB BU	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
19	3210192	PT 2,5-TGB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
20	3210193	PT 2,5-TWIN-TGB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
21	3210194	PT 2,5-QUATTRO-TGB	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2
22	3210198	PT 2,5-TWIN-TG	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	HL 1 - HL 3	Category 2

Connection technologies in detail

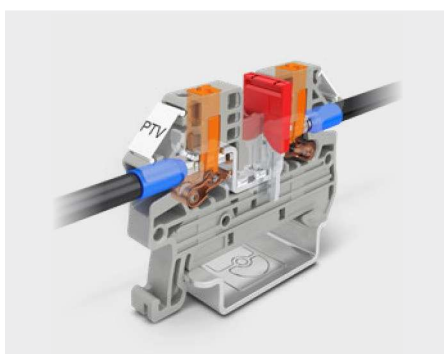
Push-in connection

The terminal blocks of the CLIPLINE complete range cover a broad range of applications. Connections based on spring technology have become an established method in the railway technology sector. Push-in direct-connection technology combines all the advantages of spring-cage technology and provides enormous cost-savings potential with considerably faster wiring. To make it easier to find our products in the online shop, the acronyms of the specific product families (PT, PTV, etc.) are listed in the second line.



Feed-through terminal block PT...

For standard applications.



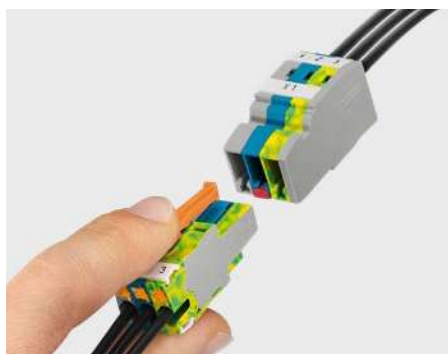
Feed-through terminal block, lateral connection PTV...

For applications with a low installed height.



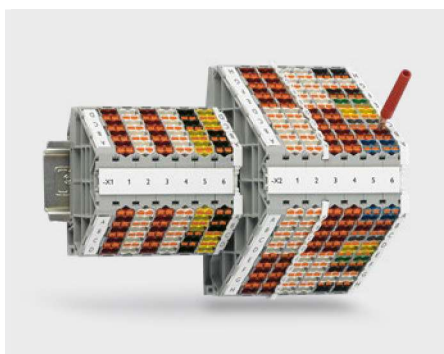
Feed-through terminal block, pluggable terminal blocks PT...1P

For maintaining or exchanging equipment.



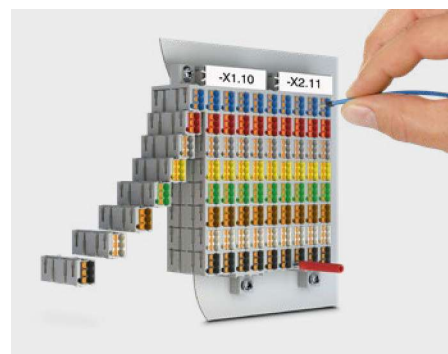
Plug/coupling PP-H... and PPC...

For flying leads.



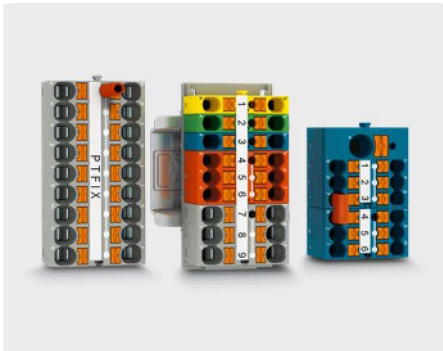
Potential distributor PTRV...

For space-saving, high-position wiring.



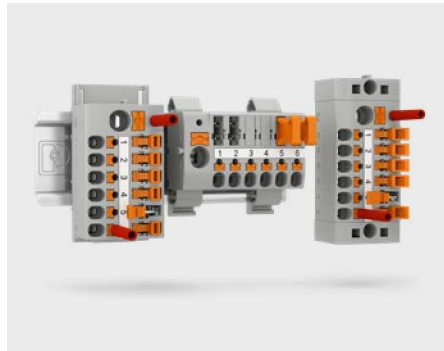
Marshalling patchboard PTMC...

Modular, for signal marshalling.



Distribution blocks PTFIX...

For space-saving potential distribution.



Distribution blocks with/without disconnect knife

PTFIX...MT, PTFIX...TG

For separating signal circuits or with plug-in zone.



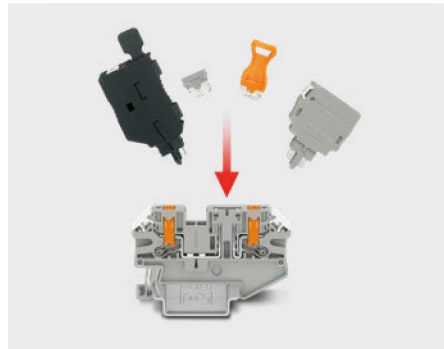
Distribution blocks with fuse and LED PTFIX...SILED...

For fusing with status indicator.



Knife disconnect terminal blocks push-in technology PT...MT

For switching tasks and for testing, separating, and measuring.



Function terminals PT...TG

For mounting fuse carriers and component holders.



Component terminal blocks PT...BE

For installing individually selectable components.



Fuse terminal block PT...HESI...

For fusing signal circuits.



Screw cap fuse terminal block PT...DREHSI...

Fuse terminal block with screw cap.



High-current terminal blocks PTPOWER...

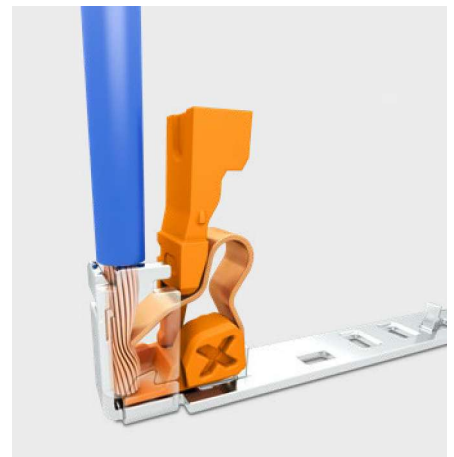
For large cross sections or high currents.

Connection technologies in detail

Push-X connection

The Push-X terminal blocks are characterized by conductor connections that require almost no effort. The new technology combines the advantages of existing spring connection technologies and even enables tool-free conductor connection of the smallest conductors without ferrules. Due to the considerable time savings during wire preparation and wiring, Push-X technology is one of the more efficient connection solutions in the field of terminal blocks.

➤ For more information, visit: phoenixcontact.com/push-x



Feed-through and multi-conductor terminal blocks XT...

For standard applications with a conductor cross-section of 0.5 to 4 mm².



Feed-through and multi-conductor terminal blocks with lateral conductor connection XTV...

For standard applications with a conductor cross-section of 0.5 to 25 mm².



Function terminals XT...

For switching tasks, for testing, separating, and measuring purposes, and for the integration of components and fuses.

Spring-cage connection

The spring-cage connection delivers high contact reliability and constant connections, even at high levels of vibration.



Spring-cage connection terminal blocks ST...

Traditional connection technology.

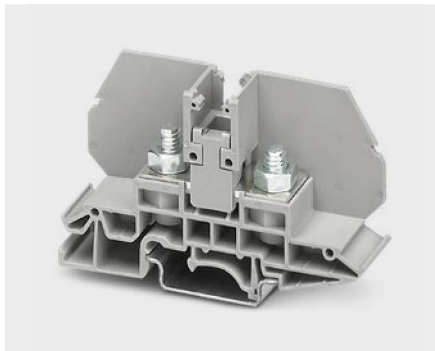
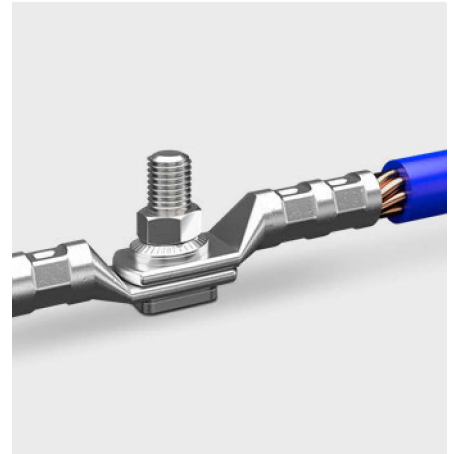


Diode terminal blocks ST...DIO...

With integrated diode.

Bolt connection

Phoenix Contact offers field-tested bolt connection terminal blocks for challenging tasks involving large cross-sections and high currents. They meet the stringent requirements for safety and reliability in mechanical installation. Furthermore, parameters such as low contact resistance and high electric strength are of crucial importance to the quality of the electrical connection.



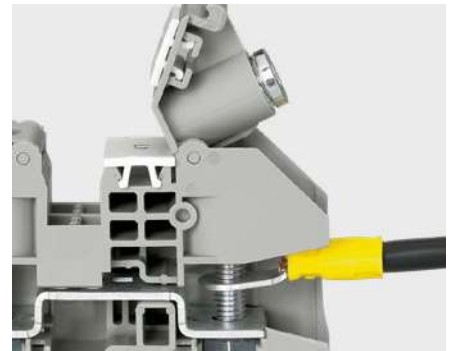
Bolt terminal blocks RBO...

With two bolts, for DIN rail or direct mounting.



Bolt terminal blocks, compact HV...

With one or two bolts, for DIN rail mounting.



Bolt terminal blocks with hinged cover RT...

With captive cover nut.

Accessories

Beyond our extensive portfolio of standard accessories, we offer additional items for railway-specific applications.



Shield-connection clamps SCC...

With spring-clamp technology for tool-free, one-handed operation.



Component holders P-CO.../DIO FIX...

Plug-in design simplifies maintenance work on the train.