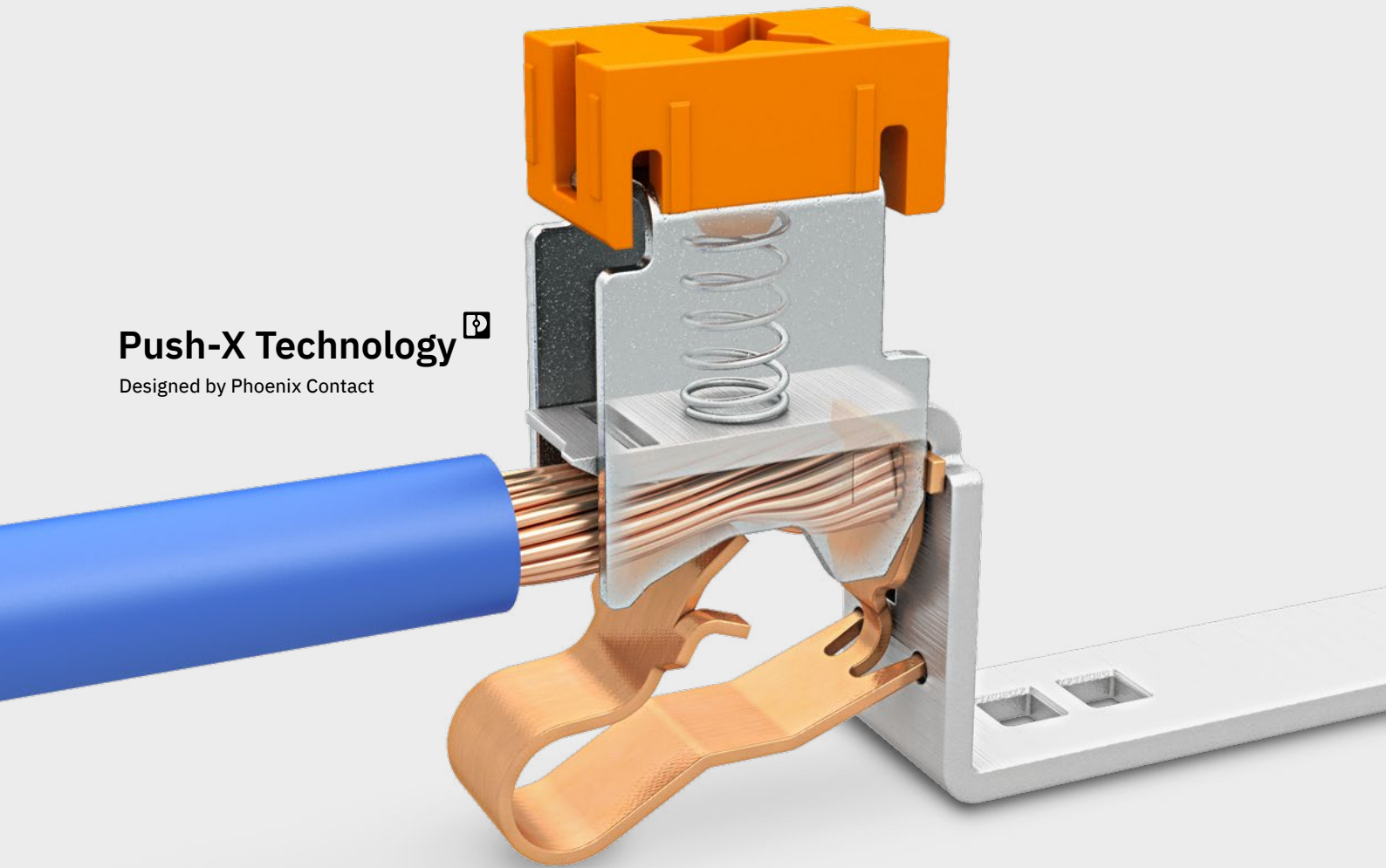


COMPLETE line

Push-X Technology 
Designed by Phoenix Contact

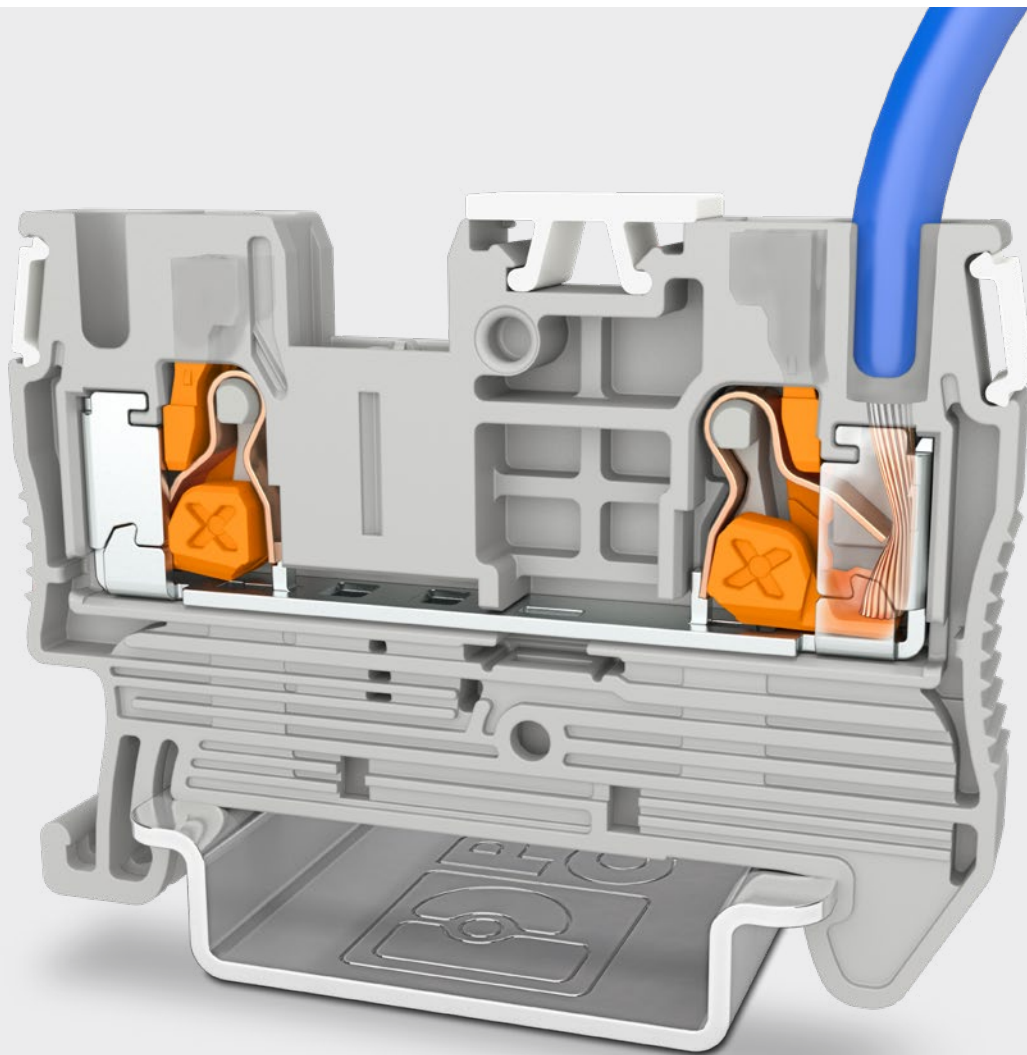


Push-X technology

The new milestone in connection technology

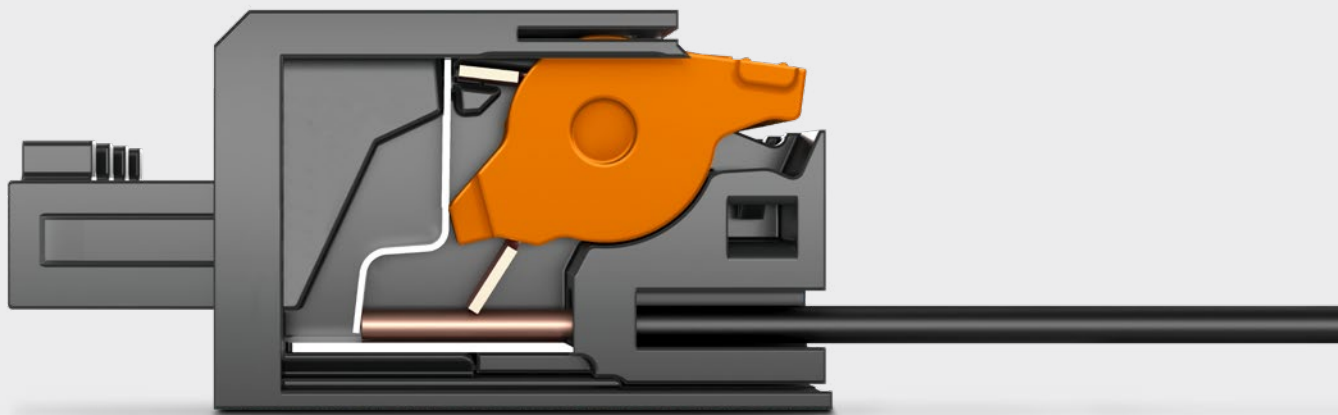
Terminal blocks and PCB connectors with Push-X technology

A new concept in tool-free conductor connection: Push-X can accommodate all types of conductors with direct wiring without the need for force or tools. A pretensioned contact spring lies at the heart of this new technology. The Push-X technology principle enables the connection of rigid and flexible conductors with or without ferrules. Even the smallest flexible conductors trigger the connection.



Release mechanism

Even if the actual release mechanism of the various Push-X products differs somewhat, the principle is the same for all products. First, the conductor must be inserted into the end of the connection chamber. There is a locking mechanism that ultimately holds the contact spring in the pretensioned state. Up to this point, the contact chamber is still open and the conductor is not clamped. As soon as the locking mechanism is actuated, the contact spring is released and the conductor is clamped in the blink of an eye. The locking mechanism can be released without significant effort and is therefore unlike existing connection technologies.



Opening and pretensioning

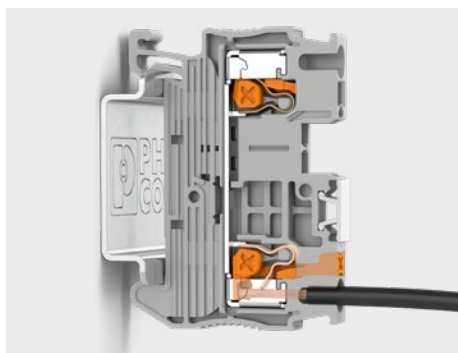
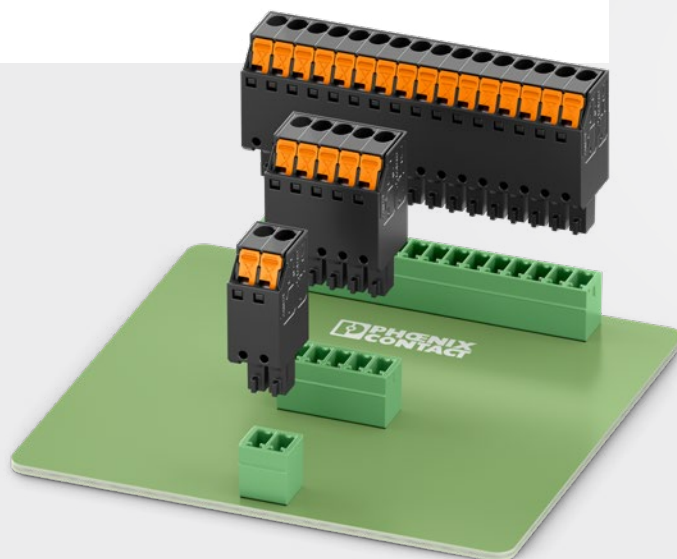
Since products with Push-X technology are delivered with a pre-opened connection chamber, opening and pretensioning the contact chamber is usually only necessary after the first wiring. To release an already wired conductor, simply press down the

orange actuating push buttons. As soon as this has reached the end position, renewed release is blocked inside the contact chamber. At this point, the contact chamber is back in its initial position and thus preloaded for rewiring. Now, the conductor

can be pulled out of the contact chamber effortlessly.

Push-X technology

When a new technology arrives on the market, many will welcome it while others will be more skeptical. In order to reduce doubt as far as possible, in addition to various quality tests, we made sure we adopted as much as possible of the proven Push-in technology when developing this new connection technology. A good example is the XT range, which largely incorporates both the actual contact spring and the contour of the terminal housing of the PT versions. The same applies to the XTV and XPC product groups.



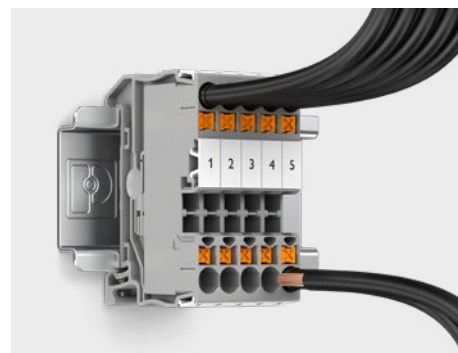
Highly convenient operation

With the ingenious structure of the clamping chamber, the Push-X technology enables direct and almost effortless conductor connection.



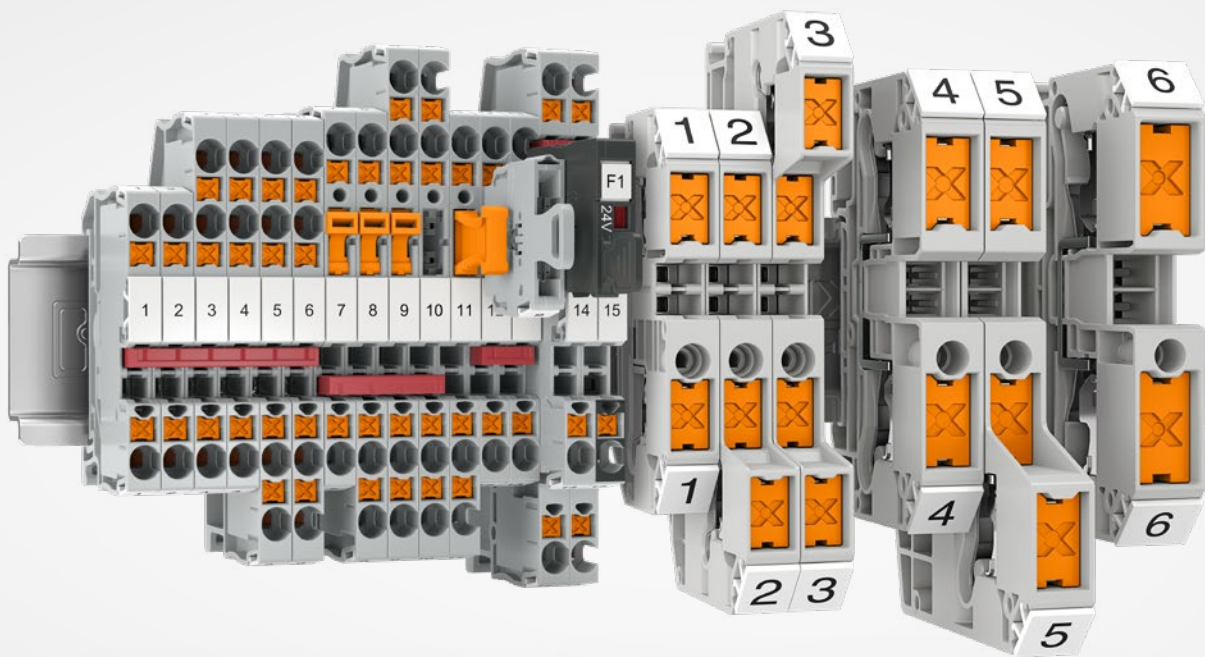
Greater flexibility

Owing to the low effort requirement, Push-X makes it possible to wire rigid and flexible conductors with or without ferrules. Even the smallest flexible conductors can be wired quickly and easily without ferrules.



Reduced installation times

With the open connection chamber and the elimination of conductor pretreatment, Push-X is one of the fastest and most flexible connection technologies on the market.



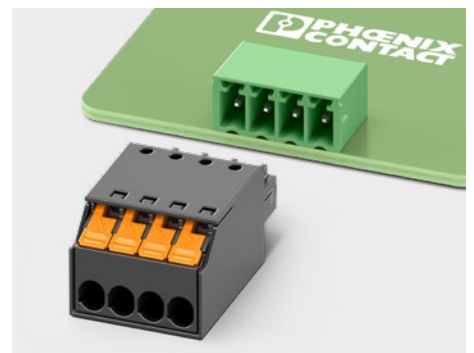
Reliable wiring

With their acoustic and visual feedback, the products with Push-X technology enable a high level of reliability during wiring.



Fast opening and pretensioning

The conductors can be released simply by pressing the orange actuating push buttons. In the end position, the contact chamber is pretensioned for rewiring.



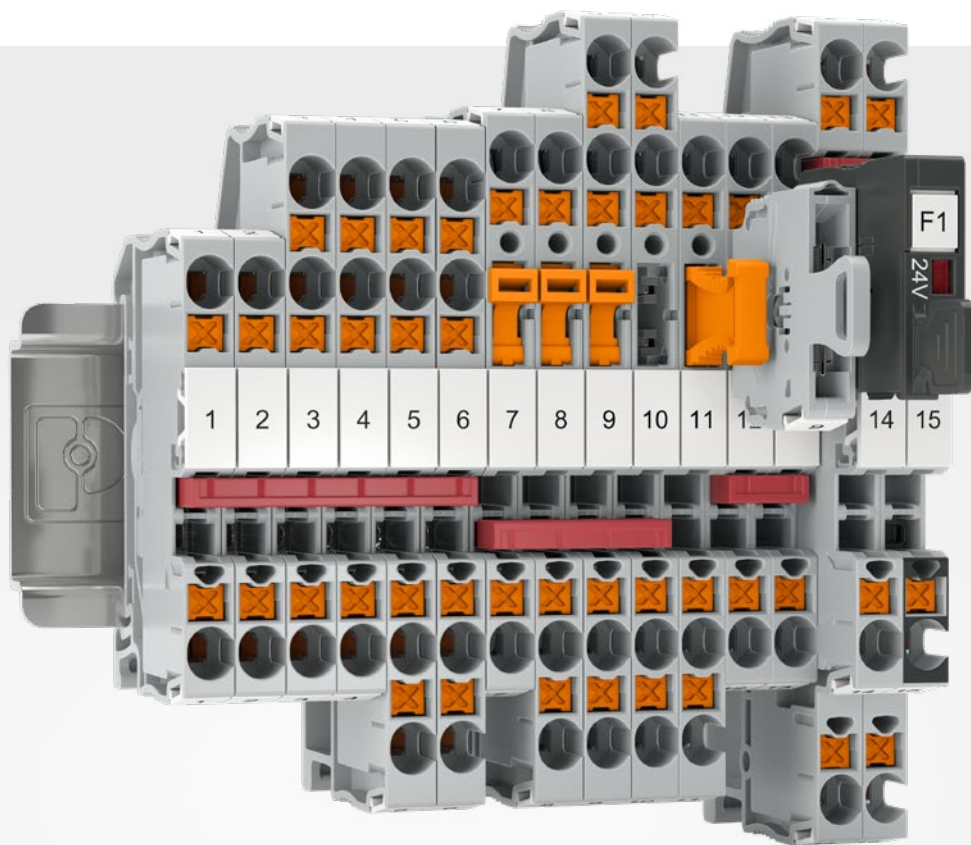
Compatibility

The products with Push-X technology feature high-level plug-in compatibility and compatibility with existing systems (COMBICON and CLIPLINE complete).

Terminal blocks with Push-X technology






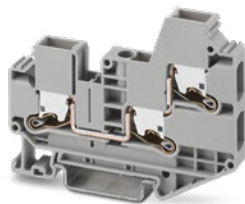



The frontal conductor connection of the XT terminal blocks enables clear and easy wiring. XT terminal blocks are available with a nominal cross-section of 2.5 mm², enabling conductors between 0.75 and 4 mm² to be plugged in directly with ease.






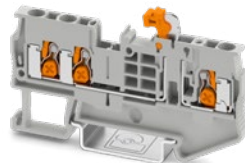

The XTV terminal blocks are available in nominal cross-sections of 6, 10, and 16 mm², enabling conductor cross-sections between 1.5 and 25 mm² to be wired with ease. Given the large conductor cross-sections, a lateral connection was selected for the XTV terminal blocks (V = vertical).



Your advantages

- ✓ Highly convenient operation with the direct, effortless, and tool-free conductor connection
- ✓ Quick installation of all types of conductors with and without ferrule
- ✓ Easy handling with the frontal conductor connection
- ✓ Clear overview with the frontal and lateral marking grooves

Feed-through terminal blocks							
							
Colors	Gray	XT 2,5	1343106	XTV 6	1329493	XTV 10	1329547
	Blue	XT 2,5 BU	1343114	XTV 6 BU	1329494	XTV 10 BU	1329549
PE versions		XT 2,5-PE	1343116	XTV 6-PE	1329495	XTV 10-PE	1329550
Width / height / depth		5.2 mm / 48.6 mm / 35.3 mm		8.2 mm / 62.8 mm / 36.2 mm		10.2 mm / 72.0 mm / 42.8 mm	
Current / voltage // UL		24 A / 800 V // 20 A / 600 V		41 A / 1000 V // 40 A / 600 V		57 A / 1000 V // 55 A / 600 V	
Conductor cross-section rigid and flexible // AWG		0.5 mm² ... 4 mm² // 20 ... 12		0.5 mm²... 10 mm² / 1.5 mm² ... 10 mm² // 20... 8 / 14 ... 8		1.5 mm² ... 10 mm² / 2.5 mm² ... 16 mm² // 14 ... 6 / 12 ... 6	
Feed-through terminal blocks				Multi-conductor terminal blocks (3-conductor)			
							
Colors	Gray	XTV 16	1329672	XT 2,5-TWIN	1343117	XT 6-TWIN	1329499
	Blue	XTV 16 BU	1329673	XT 2,5-TWIN BU	1343121	XT 6-TWIN BU	1329506
PE versions		XTV 16-PE	1329674	XT 2,5-TWIN-PE	1343123	XT 6-TWIN-PE	1329507
Width / height / depth		12.2 mm / 77.2 mm / 43.8 mm		5.2 mm / 60.5 mm / 35.3 mm		8.2 mm / 76.7 mm / 51.4 mm	
Current / voltage // UL		76 A / 1000 V // 75 A / 600 V		24 A / 800 V // 20 A / 600 V		41 A / 1000 V // 40 A / 600 V	
Conductor cross-section rigid and flexible // AWG		2.5 mm² ... 25 mm² / 4 mm² ... 25 mm² // 12... 4 / 10... 4		0.5 mm² ... 4 mm² // 20 ... 12		0.5 mm² ... 10 mm² / 1.5 mm² ... 10 mm² // 20... 8 / 14 ... 8	
Multi-conductor terminal blocks (3-conductor)				Multi-conductor terminal blocks (4-conductor)			
							
Colors	Gray	XT 10-TWIN	1329603	XT 2,5-QUATTRO	1343129	XT 6-QUATTRO	1329511
	Blue	XT 10-TWIN BU	1329605	XT 2,5-QUATTRO BU	1343130	XT 6-QUATTRO BU	1329512
PE versions		XT 10-TWIN-PE	1329606	XT 2,5-QUATTRO-PE	1343137	XT 6-QUATTRO-PE	1329513
Width / height / depth		10.2 mm / 89.1 mm / 62.5 mm		5.2 mm / 72.2 mm / 35.3 mm		8.2 mm / 90.6 mm / 51.4 mm	
Current / voltage // UL		57 A / 1000 V // 55 A / 600 V		24 A / 800 V // 20 A / 600 V		41 A / 1000 V // 40 A / 600 V	
Conductor cross-section rigid and flexible // AWG		1.5 mm² ... 16 mm² / 2.5 mm² ... 16 mm² // 14... 6 / 12... 6		0.5 mm² ... 4 mm² // 20 ... 12		0.5 mm² ... 10 mm² / 1.5 mm² ... 10 mm² // 20... 8 / 14 ... 8	

Double-level terminal blocks								
								
Colors		Gray	XTTB 2,5	1453789				
		Blue	XTTB 2,5 BU	1453899				
PE versions		XTTB 2,5-PE	1453897					
PE versions		XTTB 2,5-PV	1453890					
Width / height / depth		5.2 mm / 90 mm / 46.1 mm						
Current / voltage // UL		22 A / 800 V // 20 A / 300 V						
Conductor cross-section rigid and flexible // AWG		0.5 mm² ... 4 mm² // 20 ... 12						
Basic disconnect terminal blocks								
								
Colors		Gray	XT 2,5-TG	1462719	XT 2,5-TWIN-TG	1462724	XT 2,5-QUATTRO-TG	1462727
Width / height / depth		5.2 mm / 62 mm / 35.3 mm			5.2 mm / 74 mm / 35.3 mm		5.2 mm / 84 mm / 35.3 mm	
Current / voltage // UL		20 A / 500 V // 20 A / 300 V			20 A / 500 V // 20 A / 300 V		20 A / 500 V // 20 A / 300 V	
Conductor cross-section rigid and flexible // AWG		0.5 mm² ... 4 mm² // 20 ... 12			0.5 mm² ... 4 mm² // 20 ... 12		0.5 mm² ... 4 mm² // 20 ... 12	
Knife-disconnect terminal blocks								
								
Colors		Gray	XT 2,5-MT	1462716	XT 2,5-TWIN-MT	1462720	XT 2,5-QUATTRO-MT	1462725
		Blue	XT 2,5-MT BU	1462717	XT 2,5-TWIN-MT BU	1462721	XT 2,5-QUATTRO-MT BU	1462726
Width / height / depth		5.2 mm / 62 mm / 35.3 mm			5.2 mm / 74 mm / 35.3 mm		5.2 mm / 84 mm / 35.3 mm	
Current / voltage // UL		24 A / 800 V // 20 A / 300 V			24 A / 800 V // 20 A / 300 V		24 A / 800 V // 20 A / 300 V	
Conductor cross-section rigid and flexible // AWG		0.5 mm² ... 4 mm² // 20 ... 12			0.5 mm² ... 4 mm² // 20 ... 12		0.5 mm² ... 4 mm² // 20 ... 12	

Test-disconnect terminal blocks

General and specific accessories for a safe and leading transformer short circuit can be found in the e-shop under the respective terminal block.

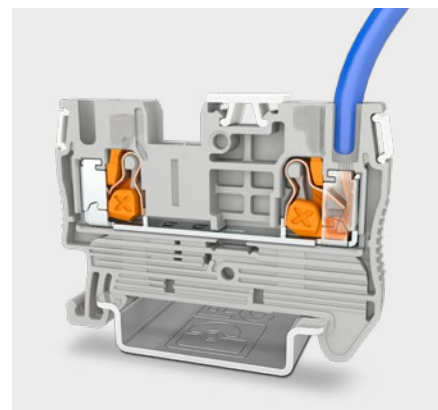


Colors	Gray	XTVMEA 6	1446173	XTVMED 6	1446172		
PE versions				XTVMED 6-PE	1446171		
Width / height / depth		8.2 mm / 105.4 mm / 48.7 mm		8.2 mm / 105.4 mm / 48.7 mm			
Current / voltage // UL		30 A / 500 V // 30 A / 600 V		41 A / 800 V // 30 A / 600 V			
Conductor cross-section rigid and flexible // AWG		0.5 mm ² ... 10 mm ² / 1.5 mm ² ... 10 mm ² // 20 ... 8 / 14 ... 8		0.5 mm ² ... 10 mm ² / 1.5 mm ² ... 10 mm ² // 20 ... 8 / 14 ... 8			

Consistently high level of quality

When a new technology arrives on the market, many will welcome it while others will be more skeptical. In order to reduce doubt as far as possible, we made sure we adopted as much as possible of the proven Push-in technology when developing this new connection technology. For this reason, we have largely adopted the PT spring and the familiar design of the current bar. In addition, the XT terminal blocks use almost the identical terminal housing of the PT versions.

The only difference between the two terminal housings is a few cooling fins. Otherwise, the only differences between the terminal blocks are the new contact chambers and the actuating push buttons.



XT 2,5 terminal block

Reliable contact chamber

To guarantee extremely quick and easy wiring, the contact chamber must not be triggered even on challenging transport routes. To enable us to guarantee that the clamping chambers remain open until the final wiring step, our terminal blocks are subjected to various normative tests. These include vibration tests for railway applications, a transport simulation, and various climate simulations.

In addition to the normative tests, we also introduced a drop-fall test. In this test, the terminal blocks are dropped several times from different heights.



Tumbling barrel test

PCB connectors

Fast and tool-free connections with Push-X

With the new Push-X technology, Phoenix Contact is taking the connection technology for PCB connectors to the next level: direct, tool-free, and automation-capable. The compatibility with the proven headers in the matching pitch from the Phoenix Contact portfolio opens up a fast connection alternative.

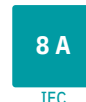
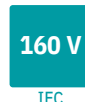


Your advantages

- ✓ Highly convenient operation with the direct, effortless, and tool-free conductor connection
- ✓ Quick installation of all types of conductors with and without ferrule
- ✓ Reliable wiring thanks to acoustic and visual feedback
- ✓ Quick release with the orange release button
- ✓ Plug-in compatibility with the existing COMBICON portfolio

XPC 1,5 series PCB connectors

PCB connectors



Number of positions	Type	Item No.	Dimensions (length / width / height)	Conductor cross-section // AWG
2	XPC 1.5/ 2-ST-3.5 BK	1464104	25.95 mm / 8.36 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
3	XPC 1.5/ 3-ST-3.5 BK	1464105	25.95 mm / 12.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
4	XPC 1.5/ 4-ST-3.5 BK	1464107	25.95 mm / 15.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
5	XPC 1.5/ 5-ST-3.5 BK	1464108	25.95 mm / 19.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
6	XPC 1.5/ 6-ST-3.5 BK	1464109	25.95 mm / 22.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
7	XPC 1.5/ 7-ST-3.5 BK	1464110	25.95 mm / 26.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
8	XPC 1.5/ 8-ST-3.5 BK	1464111	25.95 mm / 29.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
9	XPC 1.5/ 9-ST-3.5 BK	1464112	25.95 mm / 33.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
10	XPC 1.5/10-ST-3.5 BK	1464114	25.95 mm / 36.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
11	XPC 1.5/11-ST-3.5 BK	1464115	25.95 mm / 40.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
12	XPC 1.5/12-ST-3.5 BK	1464116	25.95 mm / 43.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
13	XPC 1.5/13-ST-3.5 BK	1464117	25.95 mm / 47.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
14	XPC 1.5/14-ST-3.5 BK	1464118	25.95 mm / 50.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
15	XPC 1.5/15-ST-3.5 BK	1464119	25.95 mm / 54.13 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16
16	XPC 1.5/16-ST-3.5 BK	1464120	25.95 mm / 57.63 mm / 12.46 mm	0.34 mm² ... 1.5 mm² // 20 ... 16

Further information

Are you interested in this new connection technology?

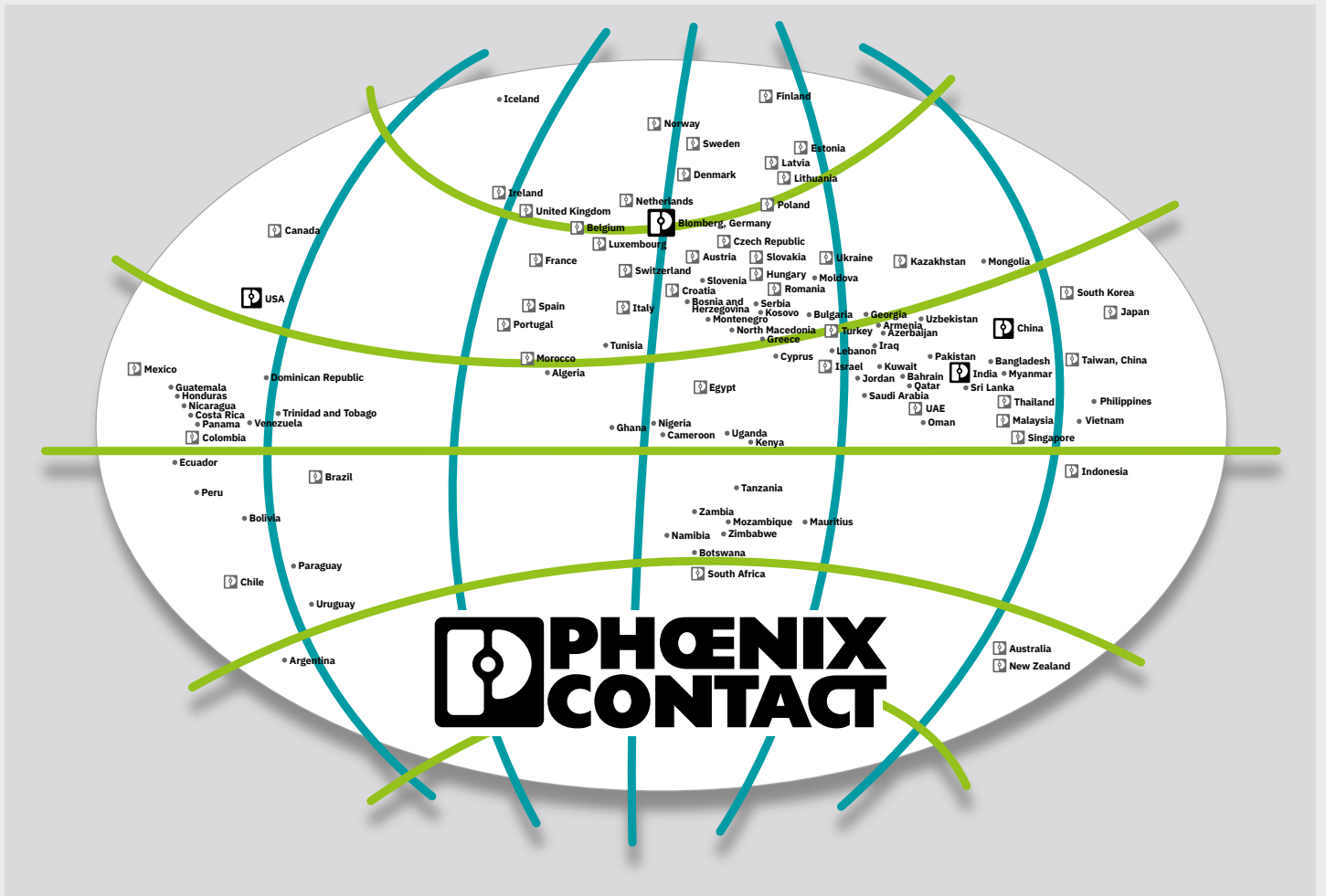
Then visit our web page for Push-X.

Here you will find further information, videos, samples, and contact details.

We look forward to seeing you!



phoenixcontact.com/push-x



Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented products and solutions for the electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network reaching across more than 100 countries with over 21,000 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide range of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

You can find your local partner at
phoenixcontact.com