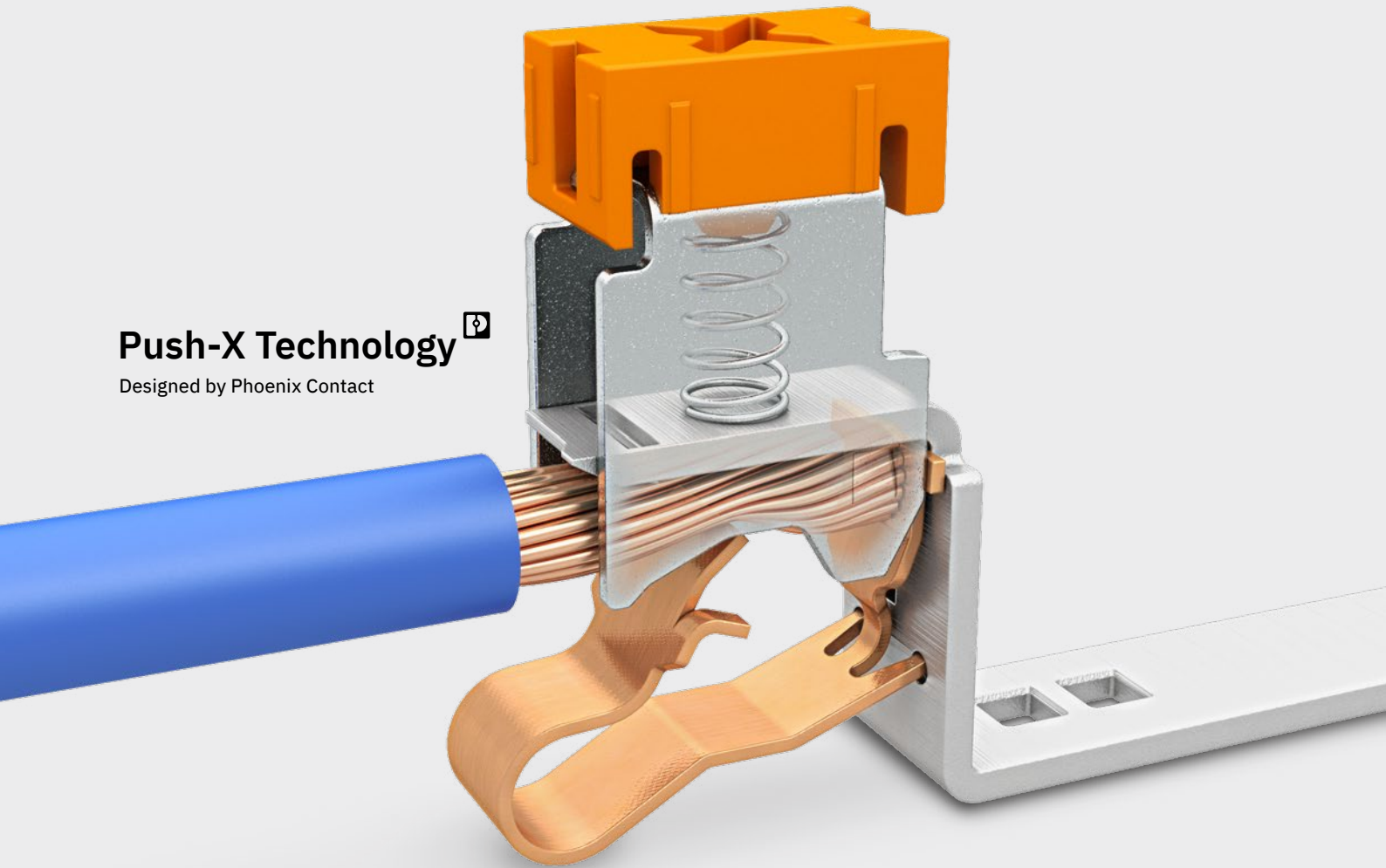


COMPLETE line

**Push-X Technology**   
Designed by Phoenix Contact

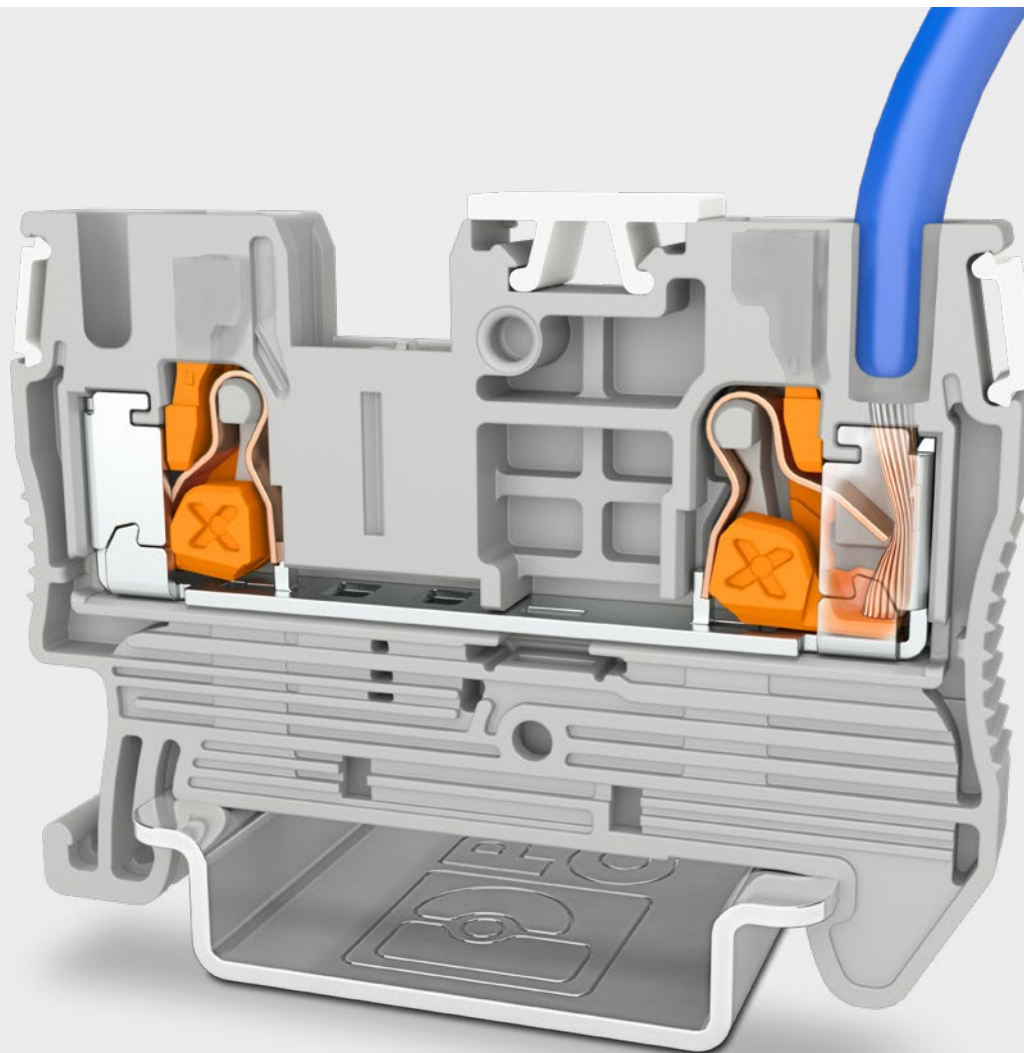


## Push-X technology

The new milestone in connection technology

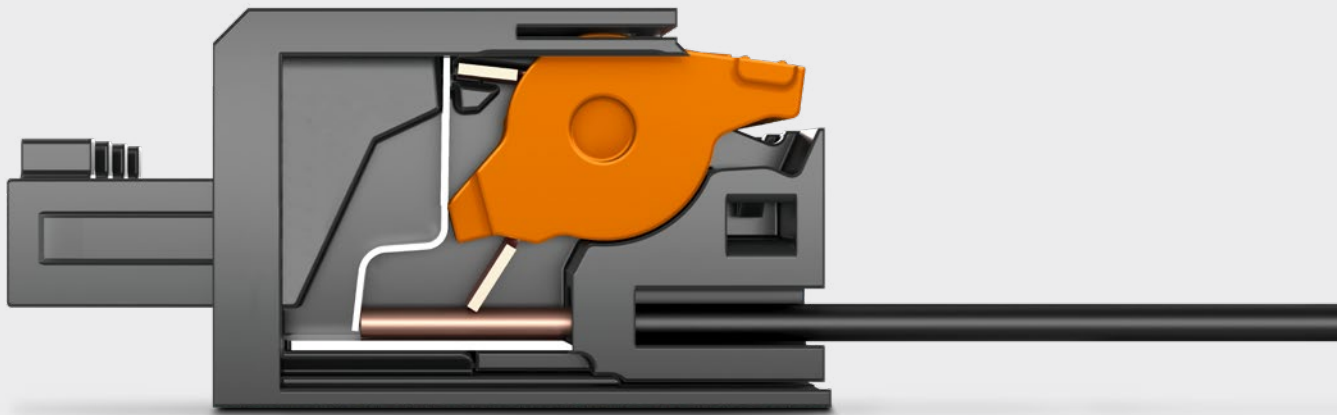
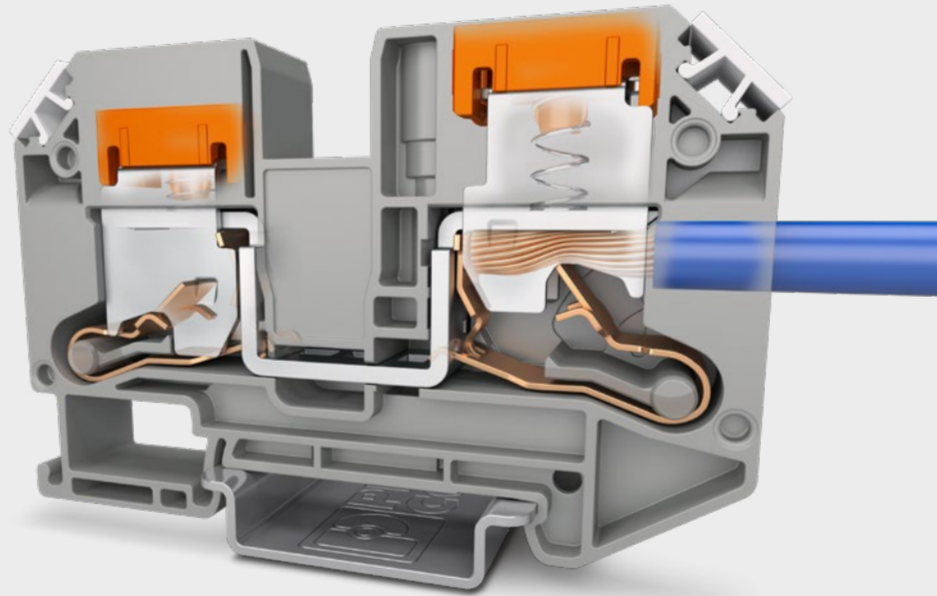
# Terminal blocks and PCB connectors with Push-X technology

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

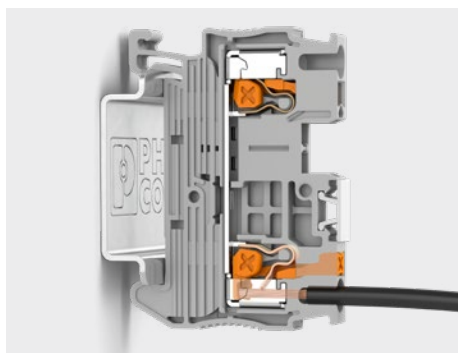
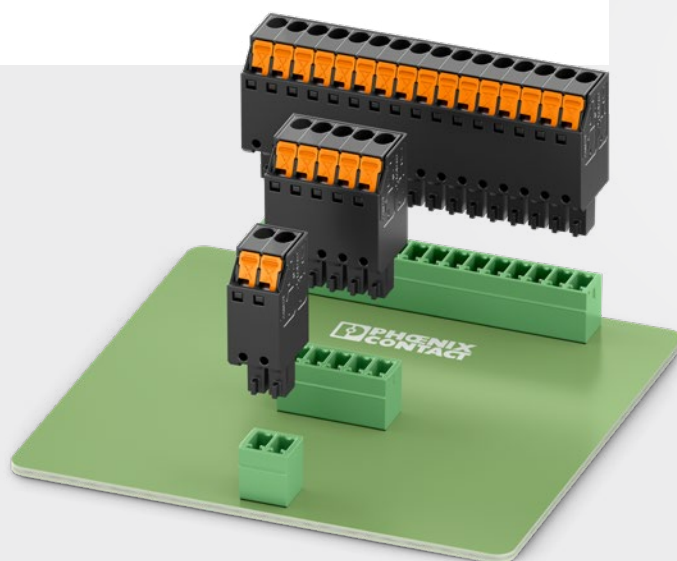
Since products with Push-X technology are delivered with a pre-opened connection chamber, opening and pretensioning the contact chamber is usually only necessary after the first wiring. To release an already wired conductor, simply press down the

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.



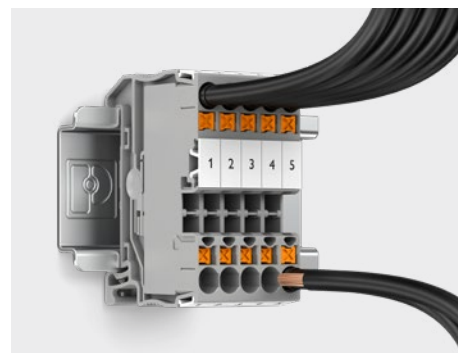
## Highly convenient operation

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



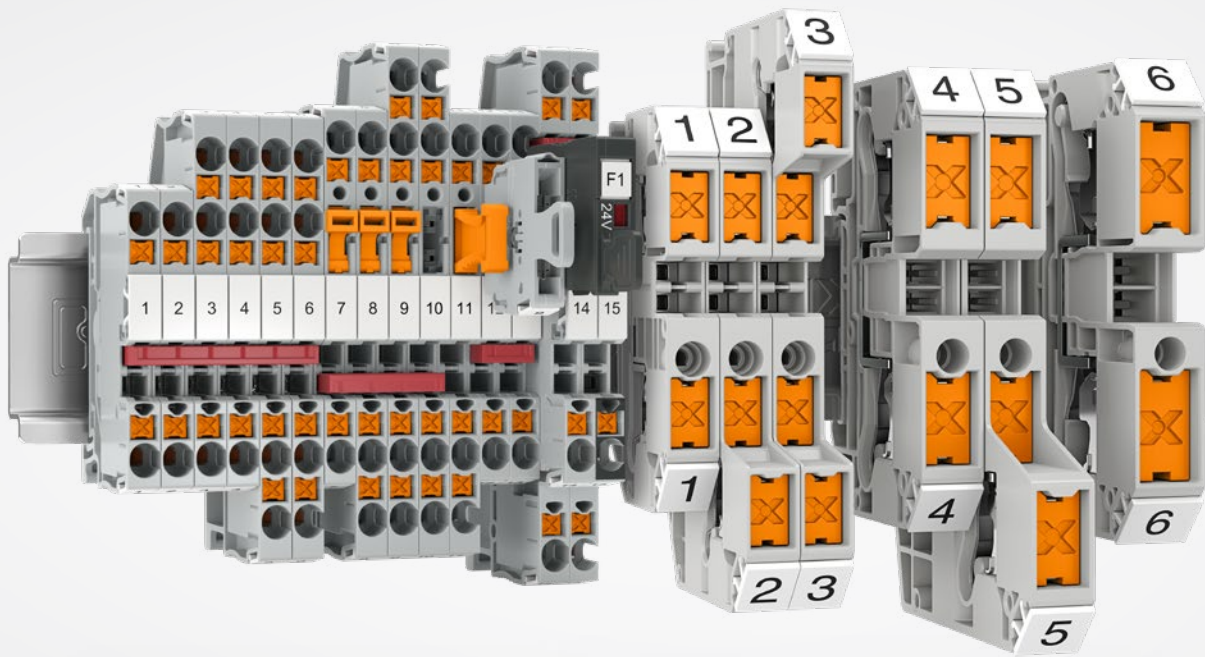
## Greater flexibility

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.



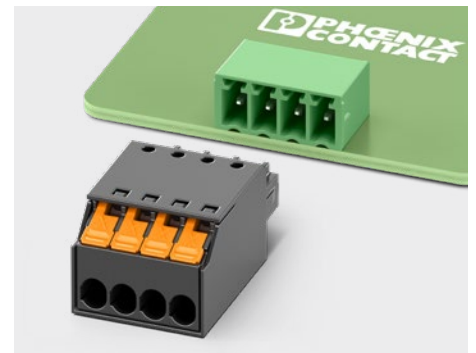
### Reliable wiring

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.



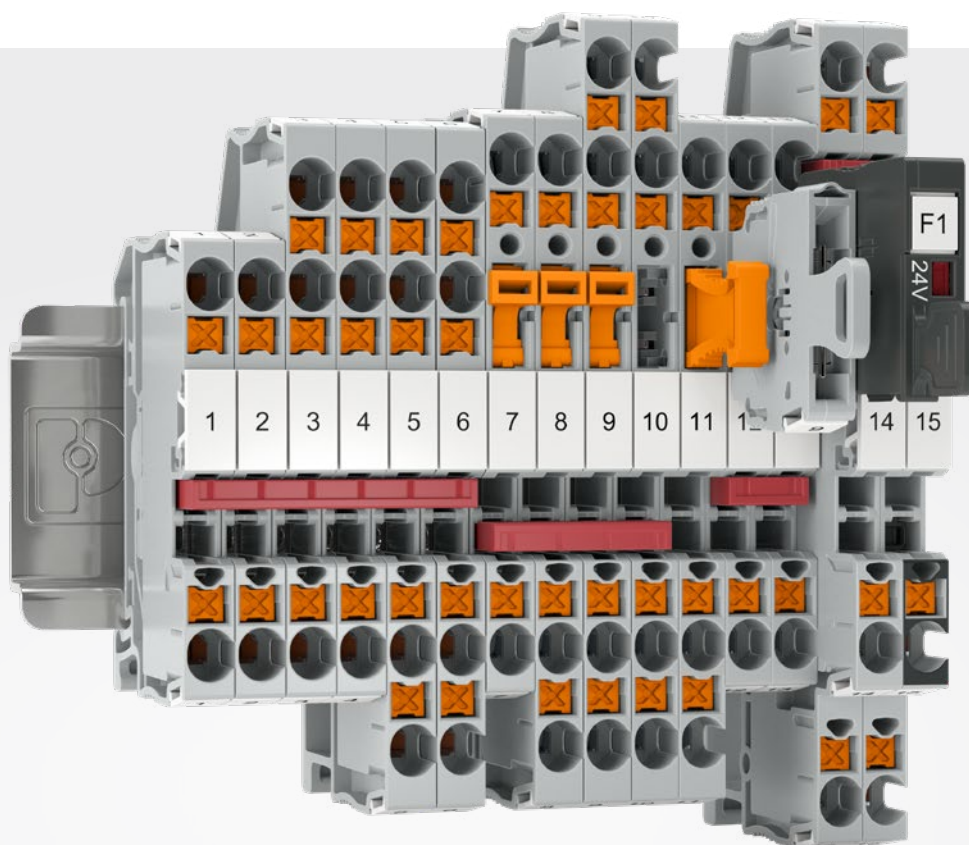
### Compatibility

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






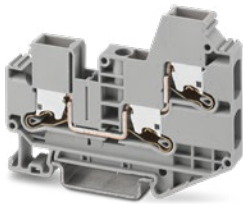


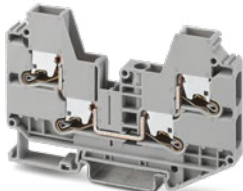
The frontal conductor connection of the XT terminal blocks enables clear and easy wiring. XT terminal blocks are available with a nominal cross-section of 2.5 mm<sup>2</sup>, enabling conductors between 0.75 and 4 mm<sup>2</sup> to be plugged in directly with ease.

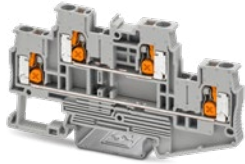
The XTV terminal blocks are available in nominal cross-sections of 6, 10, and 16 mm<sup>2</sup>, enabling conductor cross-sections between 1.5 and 25 mm<sup>2</sup> to be wired with ease. Given the large conductor cross-sections, a lateral connection was selected for the XTV terminal blocks (V = vertical).



## 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	<a href="#">1343106</a>	XTV 6	<a href="#">1329493</a>	XTV 10	<a href="#">1329547</a>
	Blue	XT 2,5 BU	<a href="#">1343114</a>	XTV 6 BU	<a href="#">1329494</a>	XTV 10 BU	<a href="#">1329549</a>
PE versions		XT 2,5-PE	<a href="#">1343116</a>	XTV 6-PE	<a href="#">1329495</a>	XTV 10-PE	<a href="#">1329550</a>
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 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> // 20... 8 / 14... 8		1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> // 14 ... 6 / 12 ... 6	
Feed-through terminal blocks				Multi-conductor terminal blocks (3-conductor)			
							
Colors	Gray	XTV 16	<a href="#">1329672</a>	XT 2,5-TWIN	<a href="#">1343117</a>	XT 6-TWIN	<a href="#">1329499</a>
	Blue	XTV 16 BU	<a href="#">1329673</a>	XT 2,5-TWIN BU	<a href="#">1343121</a>	XT 6-TWIN BU	<a href="#">1329506</a>
PE versions		XTV 16-PE	<a href="#">1329674</a>	XT 2,5-TWIN-PE	<a href="#">1343123</a>	XT 6-TWIN-PE	<a href="#">1329507</a>
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 mm <sup>2</sup> ... 25 mm <sup>2</sup> / 4 mm <sup>2</sup> ... 25 mm <sup>2</sup> // 12 ... 4 / 10 ... 4		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> // 20 ... 8 / 14 ... 8	
Multi-conductor terminal blocks (3-conductor)				Multi-conductor terminal blocks (4-conductor)			
							
Colors	Gray	XT 10-TWIN	<a href="#">1329603</a>	XT 2,5-QUATTRO	<a href="#">1343129</a>	XT 6-QUATTRO	<a href="#">1329511</a>
	Blue	XT 10-TWIN BU	<a href="#">1329605</a>	XT 2,5-QUATTRO BU	<a href="#">1343130</a>	XT 6-QUATTRO BU	<a href="#">1329512</a>
PE versions		XT 10-TWIN-PE	<a href="#">1329606</a>	XT 2,5-QUATTRO-PE	<a href="#">1343137</a>	XT 6-QUATTRO-PE	<a href="#">1329513</a>
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 mm <sup>2</sup> ... 16 mm <sup>2</sup> / 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> // 14 ... 6 / 12 ... 6		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> // 20 ... 8 / 14 ... 8	

Double-level terminal blocks							
<p>PV: Potential distributors – the two levels of the PV version are permanently connected to each other</p>							
<b>Colors</b>	<b>Gray</b>	XTTB 2,5	<a href="#">1453789</a>				
	<b>Blue</b>	XTTB 2,5 BU	<a href="#">1453899</a>				
<b>PE versions</b>		XTTB 2,5-PE	<a href="#">1453897</a>				
<b>PE versions</b>		XTTB 2,5-PV	<a href="#">1453890</a>				
<b>Width / height / depth</b>		5.2 mm / 90 mm / 46.1 mm					
<b>Current / voltage // UL</b>		22 A / 800 V // 20 A / 300 V					
<b>Conductor cross-section rigid and flexible // AWG</b>		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12					
Basic disconnect terminal blocks							
<p>The TG terminal blocks can accommodate various function plugs (disconnect, fuse, and component connectors)</p>							
<b>Colors</b>	<b>Gray</b>	XT 2,5-TG	<a href="#">1462719</a>	XT 2,5-TWIN-TG	<a href="#">1462724</a>	XT 2,5-QUATTRO-TG	<a href="#">1462727</a>
<b>Width / height / depth</b>		5.2 mm / 62 mm / 35.3 mm		5.2 mm / 74 mm / 35.3 mm		5.2 mm / 84 mm / 35.3 mm	
<b>Current / voltage // UL</b>		20 A / 500 V // 20 A / 300 V		20 A / 500 V // 20 A / 300 V		20 A / 500 V // 20 A / 300 V	
<b>Conductor cross-section rigid and flexible // AWG</b>		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12	
Knife-disconnect terminal blocks							
							
<b>Colors</b>	<b>Gray</b>	XT 2,5-MT	<a href="#">1462716</a>	XT 2,5-TWIN-MT	<a href="#">1462720</a>	XT 2,5-QUATTRO-MT	<a href="#">1462725</a>
	<b>Blue</b>	XT 2,5-MT BU	<a href="#">1462717</a>	XT 2,5-TWIN-MT BU	<a href="#">1462721</a>	XT 2,5-QUATTRO-MT BU	<a href="#">1462726</a>
<b>Width / height / depth</b>		5.2 mm / 62 mm / 35.3 mm		5.2 mm / 74 mm / 35.3 mm		5.2 mm / 84 mm / 35.3 mm	
<b>Current / voltage // UL</b>		24 A / 800 V // 20 A / 300 V		24 A / 800 V // 20 A / 300 V		24 A / 800 V // 20 A / 300 V	
<b>Conductor cross-section rigid and flexible // AWG</b>		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 20 ... 12		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> // 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.

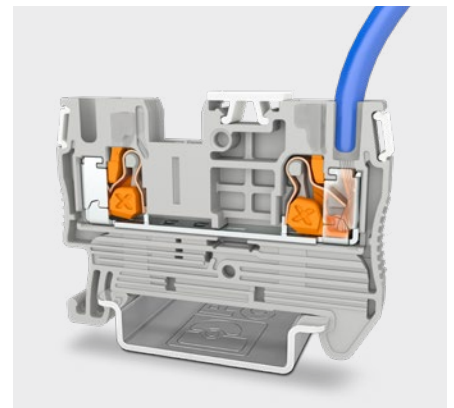


<b>Colors</b>	<b>Gray</b>	XTVMEA 6	1446173	XTVMED 6	1446172		
<b>PE versions</b>				XTVMED 6-PE	1446171		
<b>Width / height / depth</b>		8.2 mm / 105.4 mm / 48.7 mm		8.2 mm / 105.4 mm / 48.7 mm			
<b>Current / voltage // UL</b>		30 A / 500 V // 30 A / 600 V		41 A / 800 V // 30 A / 600 V			
<b>Conductor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

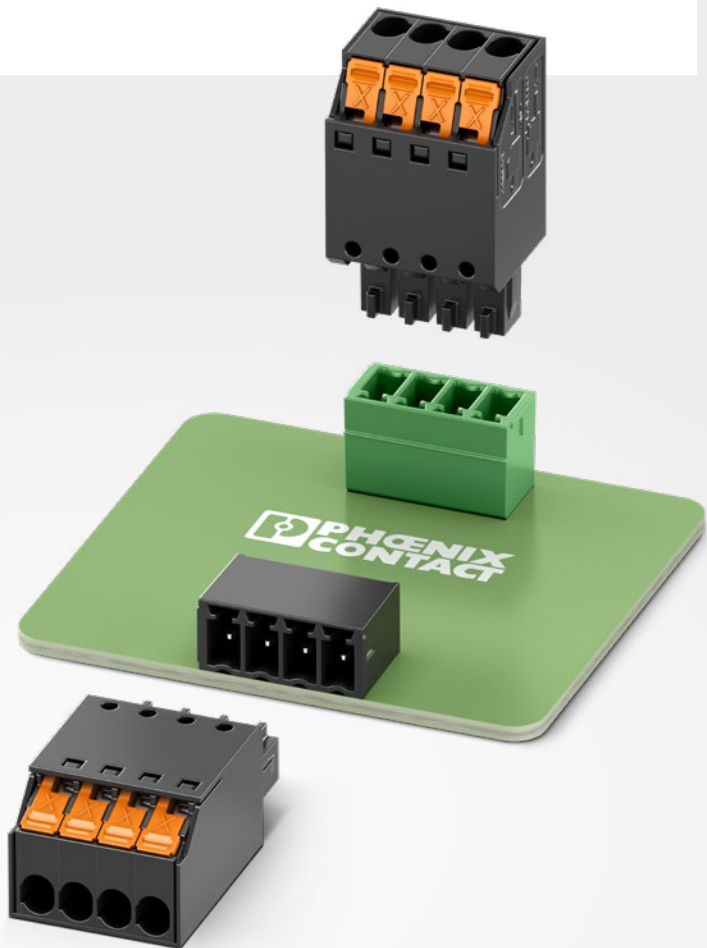


*Tumbling barrel test*

# 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	<a href="#">1464104</a>	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	<a href="#">1464105</a>	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	<a href="#">1464107</a>	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	<a href="#">1464108</a>	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	<a href="#">1464109</a>	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	<a href="#">1464110</a>	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	<a href="#">1464111</a>	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	<a href="#">1464112</a>	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	<a href="#">1464114</a>	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	<a href="#">1464115</a>	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	<a href="#">1464116</a>	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	<a href="#">1464117</a>	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	<a href="#">1464118</a>	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	<a href="#">1464119</a>	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	<a href="#">1464120</a>	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?

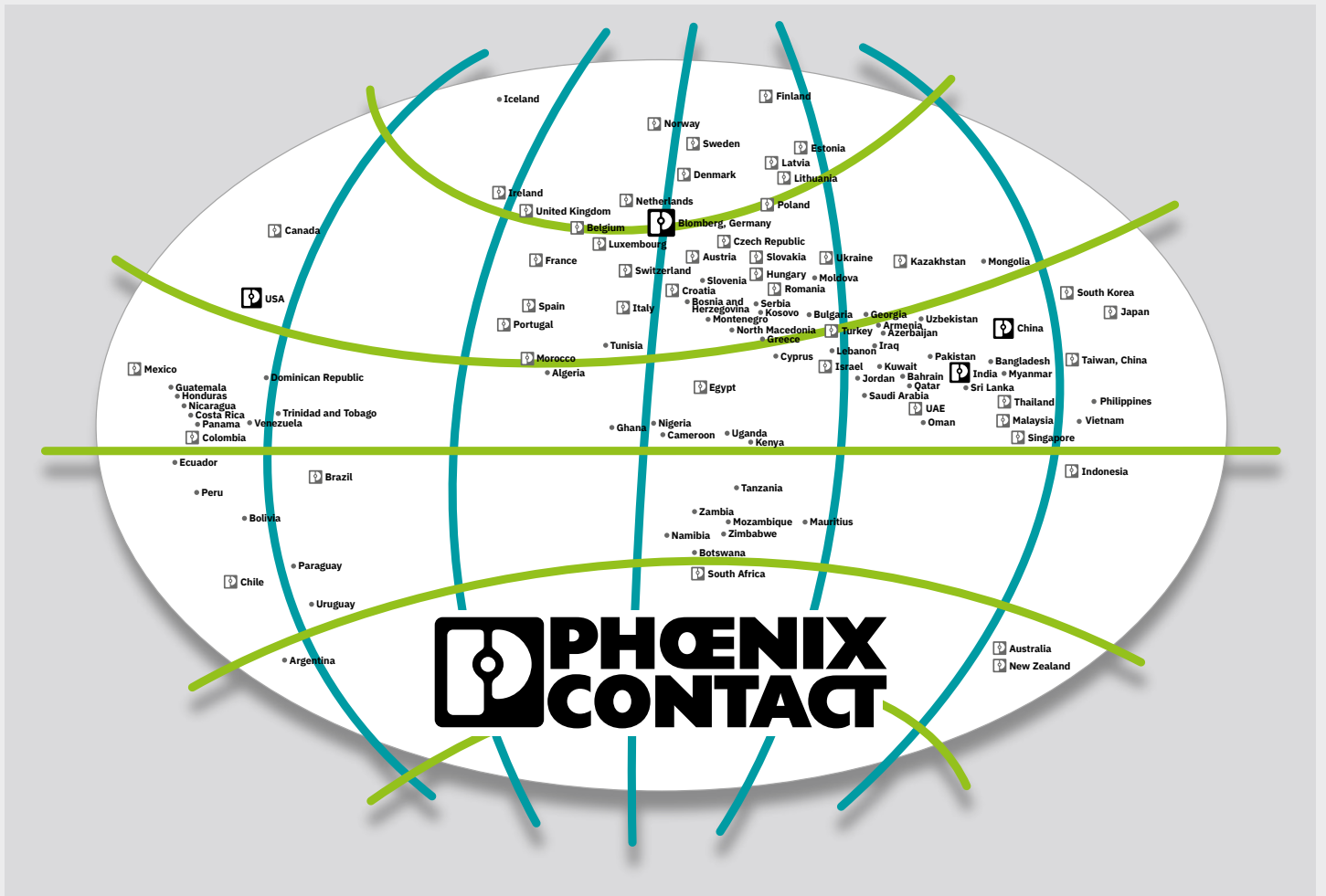
Then visit our web page for Push-X.

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

We look forward to seeing you!



[phoenixcontact.com/push-x](https://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](https://phoenixcontact.com)

