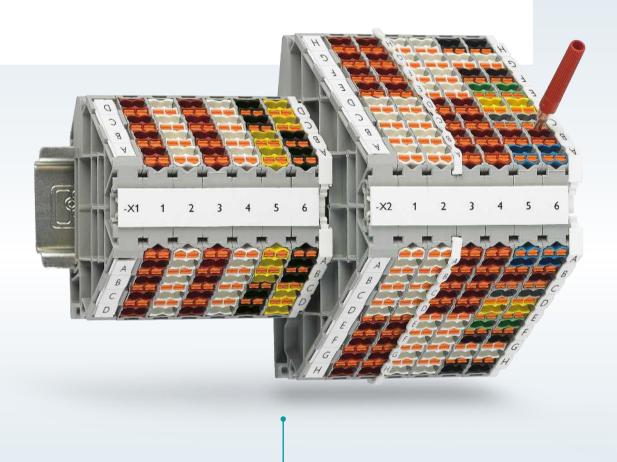


Marshalling terminals, potential distributors, and marshalling patchboards



Phoenix Contact terminal blocks

Whichever type of marshalling panel you decide upon, you can rest assured that Phoenix Contact distributors deliver reliable connections and the highest quality. To ensure that we are always able to fulfill this promise, quality comes first for us. This is why quality is not just tested on the finished product, but is ensured responsibly during every step of the manufacturing process.



1 Marshalling panels

The marshalling panels allow you to distribute your signals easily and clearly. The product family is comprised of marshalling terminals and potential distributors for simple DIN rail mounting.

More information starting on page 6

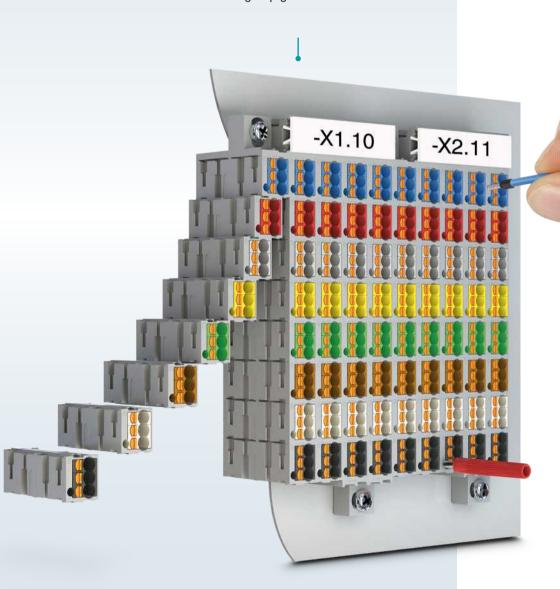
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Marshalling terminals	8
Potential distributors	10
Marshalling patchboards	14

Marshalling patchboards

The marshalling patchboards help you to marshal signals easily. The marshalling patchboards are suitable for direct mounting, DIN rail mounting, and mounting in a 19-inch rack. The high-level modularity of the patchboards means you can realize exactly the right number of positions.

More information starting on page 12



Marshalling panels and marshalling patchboards in comparison

Marshalling panels

The PTRV... marshalling panels are available in three different versions. The three versions are made up of marshalling terminals, potential distributors, and potential distributors with feed-in. The versions differ in that the marshalling terminals feature four connections per position. The potential distributors, on the other hand, have just one position, in which all connections are connected together. Moreover, the PTRVB potential distributors can be bridged with the adjacent distributor via a standard plug-in bridge.

Whichever version you decide upon, each version is available in two sizes. The marshalling panels are available with four or eight levels. Depending on the number of levels, the marshalling panels thus have 16 or 32 distribution connections. The potential distributors with feed-in are an exception to this. In this version, two distribution connections are replaced with a feed-in.

The marshalling panels can be secured conveniently to a DIN rail. They thus enable you to realize your potential distribution quickly and clearly.

Moreover, an online configurator is available which allows you to create your own tailored solution.



Marshalling patchboards

The PTMC marshalling patchboards are constructed modularly from various individual patchboards. The individual patchboards are available with two or three connection points on each side, each carrying one potential. The modular composition of individual patchboards enables you to create a space-saving the marshalling panel with exactly the right number of positions.

When it comes to mounting, the patchboards can be plugged together easily and mounted in a 19-inch rack using mounting adapters or by direct mounting. Preconfigured patchboards for 19-inch rack or direct mounting are also available for the fast and easy installation of marshalling patchboards.

An online configurator is also available for creating marshalling patchboards with exactly the right number of positions. The configurator thus enables you to create a tailored and space-saving solution.



Differences at a glance

Characteristics	Marshalling panels	Marshalling patchboards
Push-in connection technology	•	•
DIN rail mounting	•	•
Direct mounting		•
19" rack mounting		•
Comprehensive marking accessories	•	•
Wide range of color versions	•	•
Online configurator	•	•
Nominal cross-section	1.5 mm²	1.5 mm ²
AWG	26 – 24	26 – 24
Nominal voltage	250 V	500 V
Number of connections	16, 32	4 – ∞
Number of connections per potential	4, 16, 32	4, 6
Potential extension via plug-in bridge	•	

PT Push-in connection

The Push-in connection is a direct conductor connection. Rigid conductors and conductors with ferrules can be inserted directly without using any tools. The special spring profile allows the easy insertion of conductors with ferrules from 0.34 mm² and higher. With the PT Pushin connection, the contact spring is opened automatically when the conductor is inserted. This provides the required pressure force against the current bar. The spring is opened

by a push button, either to release conductors or to connect flexible conductors without a ferrule, starting from 0.14 mm². This is done easily and without direct contact with live parts. The button can be operated with all standard screwdrivers.



PT-connection-video

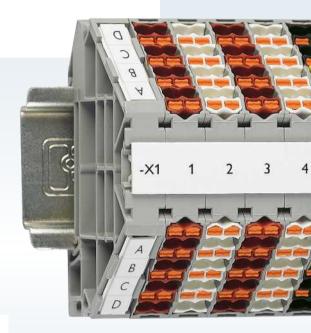


Clamping part of a Push-in terminal block

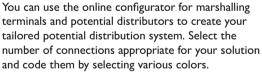
- Time-saving conductor connection of pretreated and rigid conductors with tool-free direct-connection technology
- Convenient plugging with lower insertion force
- Safe wiring and operation with color-coded push button
- Connection of all conductor types with convenient front connection
- The conductor can be easily released without special tools

Marshal sensors and actuators easily and clearly with a compact solution. The configurable color coding ensures quick orientation and safe wiring.

Large marker carriers that can be inserted individually enable matrix identification and provide the best possible overview in the control cabinet. Potential distributors of the same shape and a comprehensive range of accessories complete the product range.



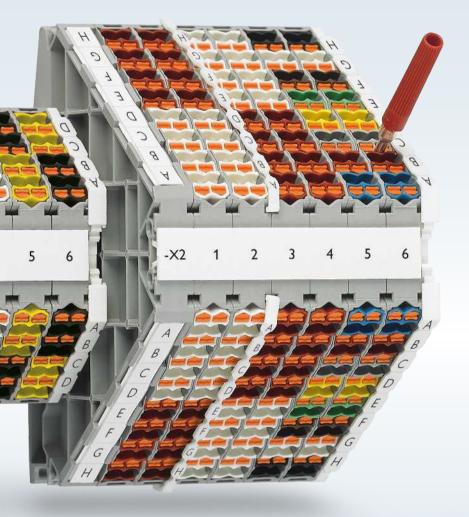
Were you unable to find an appropriate solution?





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phoenixcontact.com/configurator_marshalling_panels





Potential distributors

In contrast to the marshalling terminals, the potential distributors connect all connections together. Potential distributors with feed-in are also available, in addition to the simple potential distributors.

More information starting on page 10

Marshalling terminals

The marshalling terminals are designed for the simple marshalling of signals. They connect the opposite connections of each level together so that four connections carry a common potential.

More information starting on page 8

Marshalling terminals

The PTRV marshalling terminals are available in different versions. The connectors are available with four or eight levels, meaning that versions with 16 or 32 connection points are available. The distribution connections are designed for conductors between 0.14 mm² and 2.5 mm². The marshalling terminals carry one potential for each four connection points, meaning that you have the choice between four and eight potentials.





- Maximum signal density and up to 20% less space required due to the compact design
- Freely configurable color assignment for conductors and terminal points, facilitating intuitive and safe installation
- Convenient testing by means of freely accessible 2.3 mm test points centered between the connection points
- Large-surface, pitch-free marking

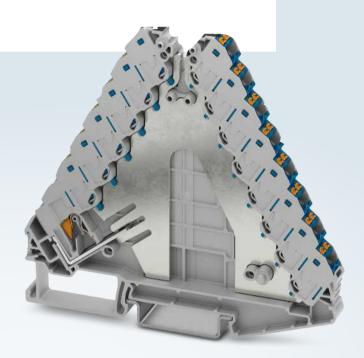
Marshalling terminals product overview

larshalling ter	rminals		Color version	ns	
			Color (housing/connect	Type ion)	Item no
	Type Item no.	PTRV 4 /GY 327011	, ,	,	
R. A.	Connection	Push-in connection		DTD\	2270424
	Levels	4	Gray/red Gray/white	PTRV 4 /RD PTRV 4 /WH	3270121 3270115
	Number of connections	16	Gray/green	PTRV 4 /GN	327012
	Color	Gray / gray	Gray/yellow Blue/blue	PTRV 4 /YE PTRV 4 BU/BU	3270123 3270118
	Current / voltage	10 A / 250 V	Blue/red Blue/white	PTRV 4 BU/RD PTRV 4 BU/WH	3270120 327011
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	Black Willie		527011
			Color	Туре	Item no
	Type Item no.	PTRV 4 /SENSOR 4POL 116261	(housing/connect	ion)	
1.00	Type Item no.		3		
		Push-in connection			
	Levels	4			
	Number of connections	16			
	Color	Gray / white			
	Current / voltage	10 A / 250 V			
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14			
			Color (housing/connect	Type ion)	Item n
60-00	Type Item no.	PTRV 8 /GY 327014	0		
	Connection	Push-in connection			
	Levels	8	Gray/blue Gray/black	PTRV 8 /BU PTRV 8 /BK	327023 106172
人員員人	Number of connections	32	Gray/white PTRV 8 /WH Gray/red PTRV 8 /RD Gray/green PTRV 8 /GN		1061721 3270231 3270232
	Color	Gray / gray			
	Current / voltage	8 A / 250 V	Blue/blue		
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	-		
			Color (housing/connect	Type	Item no
40	Type Item no.	PTRV 8 /RDWH 327013	· ·	ionij	
	Connection	Push-in connection	-		
	Levels	8			
	Number of connections	32	Gray/white/red	PTRV 8 /WHRD	327013
	Color	Gray / red/white	Blue/red/white Blue/white/red	PTRV 8 BU/RDWH PTRV 8 BU/WHRD	327013 327013
	Current / voltage	8 A / 250 V			
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14			
			Color	Туре	Item no
	Type Item no.	PTRV 8 /VDE 0815 327023	(housing/connect	ion)	
	Connection	Push-in connection			
	Levels	8			
	Number of connections	32	Gray	PTRV 8 /VDE 0815-W	
	Color	Gray	Blue	PTRV 8 BU/VDE 0815	327025 104977
The state of the s		· '			
	Current / voltage	8 A / 250 V	_		

Potential distributors

As with the marshalling terminals, the potential distributors are also available with up to 32 distribution connections. The difference compared to the marshalling panels is the number of potentials. The connectors have one potential per level. This potential thus connects four connections. The potential distributors, on the other hand, carry one single potential across all connections.





- Maximum signal density and up to 20% less space required due to the compact design
- Freely configurable color assignment for conductors and terminal points, facilitating intuitive and safe installation
- Convenient testing by means of freely accessible 2.3 mm test points centered between the connection points
- Large-surface, pitch-free marking

Potential distributors product overview



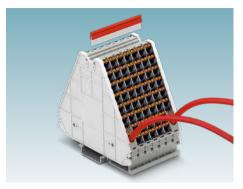
Potential distributors without feed-in

The potential distributors without feed-in are available in two different versions. One version features four levels, and the other features six. Depending on the version, the distributors have 16 or 32 distributor connections.



Potential distributors with feed-in

Along with the simple potential distributors, the PTRV family also includes distributors with feed-in contact (PTRVB..-FI). The feed-in contact is designed for conductor crosssections between 0.2 mm² and 6 mm² and replaces four distribution connections. These versions thus feature 12 or 28 distribution connections and one feed-in.



Bridging option

In contrast to the other versions, the PTRVB... potential distributors feature a bridge shaft. This bridge shaft enables easy potential distribution between the individual distributors. This means you can extend the respective potential as you wish. The FBST... bridges are available for simple bridging.

Potential distri	butors with feed-in		Color versi	ons	
			Color (housing/connec	Type ction)	Item no
	Type Item no.	PTRVB 4-FI /GY 3270138			
**	Connection	Push-in connection			
	Levels	4			
	Number of connections	13	Gray/blue	PTRVB 4-FI /BU	3270221 3270220
	Color	Gray / gray	Gray/red	PTRVB 4-FI /RD	
	Current / voltage	17.5 A / 250 V	Gray/black PTRVB 4-FI /BK		3270158
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14			
	Feed-in: Cross-section range / AWG	0.2 mm ² 6 mm ² / 24 10			
			Color (housing/connec	Type ction)	Item no
	Type Item no.	PTRVB 8-FI /BU 3270225			
69.00	Connection	Push-in connection			3270224 3270160
SW.	Levels	8			
	Number of connections	29			
	Color	Gray / blue	Gray/red Gray/black	PTRVB 8-FI /RD PTRVB 8-FI /BK	
The same	Current / voltage	17.5 A / 250 V	'	, , , , , , , , , , , , , , , , , , ,	
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14			
	Feed-in: Cross-section range / AWG 0.2 mm² 6 mm² / 24 10				

Potential distrib	outors				Color versio	ns	
					Color (housing/connecti	Type ion)	Item no.
	Туре	Item no.	PTRV 4-PV /BU	3270247			
	Connection		Push-in connection				
	Levels		4				
	Number of connections		16		Gray/red Gray/black	PTRV 4-PV /RD PTRV 4-PV /BK	3270246 3270125
	Color		Gray / blue		Blue/black	PTRV 4-PV BU/BK	3270126
	Current / voltage		17.5 A / 250 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 26	14			
					Color (housing/connecti	Type ion)	Item no.
(Eluto	Туре	Item no.	PTRV 8-PV /BU	3270249			
	Connection		Push-in connection				
ASSA	Levels		8				
	Number of connections		32		Gray/red Gray/black	PTRV 8-PV /RD PTRV 8-PV /BK	3270248 3270142 3270145
	Color		Gray / blue		Blue/black	PTRV 8-PV BU/BK	
	Current / voltage		17.5 A / 250 V				
	Cross-section range / AWG		0.14 mm ² 2.5 mm ² / 26	14			
					Color (housing/connecti	Type ion)	Item no.
	Туре	Item no.	PTRVB 4-PV /GY	1252660			
	Connection		Push-in connection				
4.5	Levels		4			PTRVB 4-PV /BU PTRVB 4-PV /RD	3270223 3270222
	Number of connections		16		Gray/blue Gray/red		
	Color		Gray / gray		Gray/black	PTRVB 4-PV /BK	3270157
	Current / voltage		17.5 A / 250 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 26	14			
					Color (housing/connecti	Type ion)	Item no.
	Туре	Item no.	PTRVB 4-PE	1070018	-		
	Connection		Push-in connection				
A 18 18	Levels		4				
A Section 1	Number of connections		16				
	Color		Green-yellow				
	Current / voltage		-/-				
	Cross-section range / AWG		0.14 mm ² 1.5 mm ² / 26	14			
					Color (housing/connecti	Type ion)	Item no.
All an	Туре	Item no.	PTRVB 8-PV /BU	3270227			
	Connection		Push-in connection				
	Levels		8				
	Number of connections		32		Gray/red	PTRVB 8-PV /RD	3270226
The state of the s	Color		Gray / blue		Gray/black	PTRVB 8-PV /BK	3270159
	Current / voltage		17.5 A / 250 V		1		
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 26	14			

I/O signal marshalling

Along with marshalling terminals and potential distributors, we also provide a variety of further solutions in the field of I/O signal marshalling.

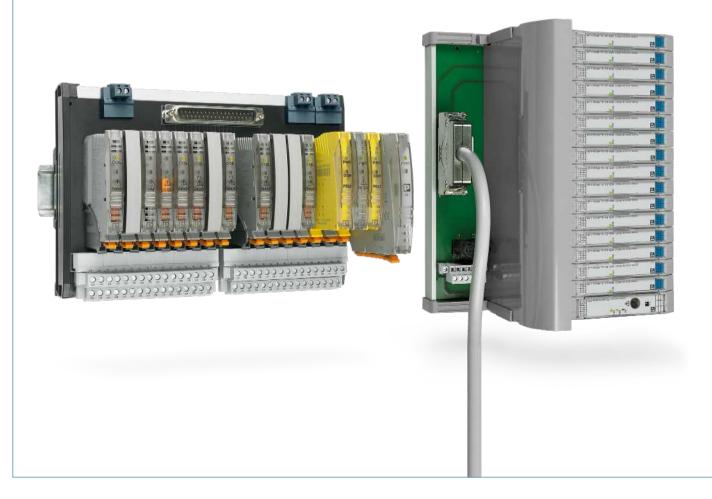
Signal marshalling for Universal I/O systems

I/O signal marshalling for Universal I/O systems becomes truly universal with VIP I/O marshalling. The flexible I/O signal marshalling system is a controller-independent solution that combines I/O signal marshalling and processing in one system. The flexible plug-in function modules allow you to configure the channels individually and consistently from the field to the control level.

Signal marshalling for standard I/O systems

For your standard I/O signal marshalling, we offer you a space-saving Plug and Play solution: Our Termination Carriers help you to quickly connect classic DIN rail signal conditioners and safety relays to the standard input and output cards of automation systems without errors using preassembled system cabling. By using our Termination Carriers you get particularly compact module carrier systems for standard I/O signal marshalling.

Are you also interested in this subject? For further information on this, see our website and the "Signal conditioning and explosion protection" selection guide.



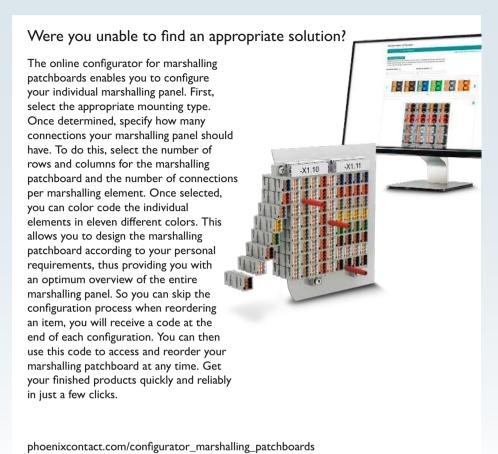
Marshalling patchboards

2

Due to its design, the PTMC marshalling patchboard provides you with the highest signal density during marshalling in automation applications. The modular structure, which can be configured to the precise number of positions and features color matrix elements, ensures space-saving, clear, and error-free wiring.

- Up to 20% higher signal density with the compact design
- The modular design allows the exact number of positions to be configured for a specific application
- Convenient testing with 2.3 mm test points
- Flexible use with direct mounting, 19-inch rack, or DIN rail mounting
- ✓ Large-surface marking options





Marshalling patchboards product overview

Marshalling pat	larshalling patchboards (individual patchboard)					ons	
					Color (housing/connect	Type .ion)	Item no.
(90)	Туре	Item no.	PTMC 1,5-2 /GY	3270302	Gray/white	PTMC 1,5-2 /WH	3270303
3////	Connection		Push-in connection		Gray/blue	PTMC 1,5-2 /BU	3270430
3/ /1	Number of positions		1		Gray/red Gray/green	PTMC 1,5-2 /RD PTMC 1.5-2 /GN	3270431 3270432
	Number of connections		4		Gray/brown	PTMC 1,5-2 /BN	3270433
	Color		Gray / gray		Gray/black Gray/violet	PTMC 1,5-2 /BK PTMC 1,5-2 /VT	3270434 3270435
	Current / voltage		17.5 A / 500 V		Gray/orange PTMC 1,5-2 /OG Gray/yellow PTMC 1,5-2 /YE		3270436 3270437
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 26	. 14	Gray/pink	PTMC 1,5-2 /PK	3270438
					Color (housing/connect	Type tion)	Item no.
/me-	Туре	Item no.	PTMC 1,5-3 /GY	3270300	Constitution	PTMC 1.5-3 /WH	3270301
3/1/1	Connection		Push-in connection		Gray/white Gray/blue	PTMC 1,5-3 /BU	3270420
£ 11	Number of positions		1		Gray/red Gray/green	PTMC 1,5-3 /RD PTMC 1.5-3 /GN	3270421 3270422
211/	Number of connections		6		Gray/brown	PTMC 1,5-3 /BN	3270423
	Color		Gray / gray		Gray/black Gray/violet	PTMC 1,5-3 /BK PTMC 1,5-3 /VT	3270424 3270425
	Current / voltage		17.5 A / 500 V		Gray/orange	PTMC 1,5-3 /OG PTMC 1,5-3 /YE	3270426 3270427
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 26	. 14	Gray/yellow Gray/pink	PTMC 1,5-3 /PK	3270428

Marshalling pate	chboards (complete	patchboa	ards for direct mo	ounting)	Color versi	ons	
					Color (housing/connec	Type tion)	Item no.
[6]	Туре	Item no.	PTMC 1,5/18	3270390			
	Connection		Push-in connection				
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of positions		18				
	Number of connections		72				
	Color		Gray / gray/white				
(4)	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm²	/ 26 14			
					Color (housing/connec	Type tion)	Item no.
0	Туре	Item no.	PTMC 1,5/32-2	3270314			
11.41.01.01	Connection		Push-in connection				
18 18 160	Number of positions		32				
	Number of connections		128		Gray/blue	PTMC 1.5/32-2 /BU	3270315
基制量 。例	Color		Gray / gray/white		,	,	
-	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm²	/ 26 14			

Marshalling patchboards product overview

rshalling pa	atchboards (complete p	atchboa	rds for direct mo	unting)	Color version	ns	
					Color (housing/connecti	Type on)	Item no.
	Туре	Item no.	PTMC 1,5/32-3	3270310			
	Connection		Push-in connection				
	Number of positions		32				
	Number of connections		192		Gray/blue	PTMC 1,5/32-3 /BU	3270312
	Color		Gray / gray/white				
	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² /	26 14			
					Color (housing/connecti	Type on)	Item no
	Туре	Item no.	PTMC 1,5/48-2	3270322			
distance of	Connection		Push-in connection				
	Number of positions		48				
	Number of connections		192		Gray/blue	PTMC 1,5/48-2 /BU	3270323
	Color		Gray / gray/white		,		
	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² /	26 14			
					Color (housing/connecti	Type on)	Item no
	Туре	Item no.	PTMC 1,5/48-3	3270318			
in the same of the	Connection		Push-in connection				
	Number of positions		48				
	Number of connections		288		Gray/blue	PTMC 1,5/48-3 /BU	3270320
	Color		Gray / gray/white		,		
	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² /	26 14			

Important note

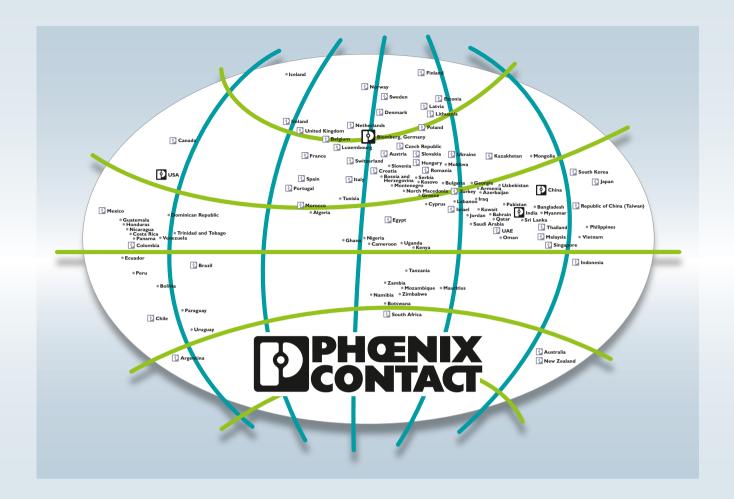
The technical data in the product tables relates to the specified reference item. It may differ slightly for connection versions in some cases.



You will find the exact and complete data for the individual items in our online shop. There is also a list of corresponding accessories provided for each item.

Marshalling pate	chboards (complete patchbo	ards for direct mounting)	Color versions
			Color Type Item no. (housing/connection)
District	Type Item no	PTMC 1,5/80-2 3270329	
Angalla .	Connection	Push-in connection	
	Number of positions	80	
	Number of connections	320	Gray/blue PTMC 1,5/80-2 /BU 3270330
	Color	Gray / gray/white	
	Current / voltage	17.5 A / 500 V	
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	
			Color Type Item no. (housing/connection)
V	Type Item no	PTMC 1,5/80-3 3270324	
	Connection	Push-in connection	
14411	Number of positions	80	
	Number of connections	480	Gray/blue PTMC 1,5/80-3 /BU 3270326
	Color	Gray / gray/white	
	Current / voltage	17.5 A / 500 V	
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	
			Color Type Item no. (housing/connection)
alled.	Type Item no	PTMC 1,5/54 3270391	
	Connection	Push-in connection	
	Number of positions	54	
	Number of connections	216	
	Color	Gray / gray/white	
	Current / voltage	17.5 A / 500 V	
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	
			Color Type Item no. (housing/connection)
L co	Type Item no	PTMC 1,5/24-3 VDE0815 3270396	
444	Connection	Push-in connection	
	Number of positions	24	
	Number of connections	144	
18.78.18	Color	Gray	
	Current / voltage	17.5 A / 500 V	
	Cross-section range / AWG	0.14 mm ² 2.5 mm ² / 26 14	

1arshalling pat 19-inch rack)	chboards (complete m	narshalli	ing patchboards for	•	Color ver	rsions	
					Color (housing/con	Type nection)	Item no.
RI-	Туре	Item no.	PTMC 1,5/32-2H 19Z	3270316			
	Connection		Push-in connection		Gray/blue	PTMC 1,5/32-2H /	BU 19Z 3270317
	Number of positions		32		Gray/gray/wh		
	Number of connections		128			19Z A-H 3270392	
	Color		Gray / gray/white		Gray	PTMC 1,5/32-2H	VDE0815 19Z 3270395
	Current / voltage		17.5 A / 500 V		Gray	PTMC 1,5/32-2H	VDE0815 19Z A-F
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 2	6 14			3270393
					Color (housing/con	Type nection)	Item no
Total Control	Туре	Item no.	PTMC 1,5/32-3 19Z	3270311		·	
	Connection		Push-in connection				
	Number of positions		32		Gray/blue	PTMC 1,5/32-3 3270313	3 /BU 19Z
	Number of connections		192		Gray/blue	PTMC 1,5/32-3	3 /BU 19Z
	Color		Gray / gray/white		Gray	3270313 PTMC 1,5/32-3	3 VDE0815 19Z
	Current / voltage		17.5 A / 500 V		,	,	3270394
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 2	6 14			
					Color (housing/con	Type nection)	Item no.
15	Туре	Item no.	PTMC 1,5/48-3 19Z	3270319			
44441110	Connection		Push-in connection				
	Number of positions		48				
	Number of connections		288		Gray/blue	PTMC 1,5/48-3	
	Color		Gray / gray/white				3270321
	Current / voltage		17.5 A / 500 V				
	Cross-section range / AWG		0.14 mm² 2.5 mm² / 2	6 14			
					Color (housing/con	Type nection)	Item no
Fig. 19	Туре	Item no.	PTMC 1,5/80-3 19Z	3270325			
Allanana	Connection		Push-in connection				
建设设置的			80				
	Number of positions						
	Number of positions Number of connections		480		Gray/blue	PTMC 1,5/80-3	
			480 Gray / gray/white		Gray/blue	PTMC 1,5/80-3	
	Number of connections				Gray/blue	PTMC 1,5/80-3	3 /BU 19Z 3270327



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 22,000 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

