

https://www.phoenixcontact.com/in/products/1754478



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PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTB 2,5/..-G, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies
- · Easy PCB replacement thanks to plug-in modules
- · Well-known mounting principle allows worldwide use
- · Items that can be aligned in various pitches support flexible and space-saving PCB assembly

### Commercial Data

Item number	1754478
Packing unit	250 pc
Minimum order quantity	250 pc
Sales Key	AAC
Product Key	AACSGB
Catalog Page	Page 312 (C-1-2013)
GTIN	4017918028640
Weight per Piece (including packing)	1.397 g
Weight per Piece (excluding packing)	1.3 g
Customs tariff number	85366930
Country of origin	DE



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## **Technical Data**

## Product properties

Туре	Standard
Product line	COMBICON Connectors M
Product type	PCB headers
Product family	MSTB 2,5/G
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Mounting flange	without
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	1

## Electrical properties

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	320 V
Degree of pollution	3
Contact resistance	1.7 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

## Material specifications

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface contact area (top layer)	Tin (3 - 5 µm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (3 - 5 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 μm Ni)

## Material data - housing



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Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C
Material data – actuating element	
Color ()	()

### Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no
	switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

## Dimensions

Dimensional drawing	P P
Pitch	5 mm
Width [w]	20 mm
Height [h]	12.1 mm
Length [I]	12 mm
Installed height	8.6 mm
Solder pin length [P]	3.5 mm

### Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.34 mm² / solid / > 15 N
	$0.2 \text{ mm}^2$ / flexible / > 10 N
	$2.5 \text{ mm}^2 / \text{ solid } / > 50 \text{ N}$
	2.5 mm² / flexible / > 50 N

Insertion and	ł withdrawa	l forcae

Result	Test passed



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No. of cycles



No. of oyeled			
Insertion strength per pos. approx.	8 N		
Withdraw strength per pos. approx.	6 N		
Torque test			
Specification	IEC 60999-1:1999-11		
Contact holder in insert			
Specification	IEC 60512-15-1:2008-05		
Contact holder in insert	Test passed		
Requirements >20 N			
Resistance of inscriptions			
Specification	IEC 60068-2-70:1995-12		
Result	Test passed		
Polarization and coding			
Specification	IEC 60512-13-5:2006-02		
Result	Test passed		
Visual inspection			
Specification	IEC 60512-1-1:2002-02		
Result	Test passed		
Dimension check	150 20510 1 2 2222 22		
Specification	IEC 60512-1-2:2002-02		
Result	Test passed		
ectrical tests			
Thermal test   Test group C	JEC 60543 5 4:2002 02		
Thermal test   Test group C Specification	IEC 60512-5-1:2002-02		
Thermal test   Test group C	IEC 60512-5-1:2002-02 24		
Thermal test   Test group C Specification			
Thermal test   Test group C Specification Tested number of positions			
Thermal test   Test group C Specification Tested number of positions	24		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification	24 IEC 60512-3-1:2002-02		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions	24 IEC 60512-3-1:2002-02		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances	24  IEC 60512-3-1:2002-02  > 5 MΩ		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  Insulating material group	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV		
Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  minimum clearance value - non-homogenous field (III/3)	24  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm		

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minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

## Environmental and real-life conditions

bratior	

Specification	IEC 60068-2-6:2007-12	
Frequency	10 - 150 - 10 Hz	
Sweep speed	1 octave/min	
Amplitude	0.35 mm (10 Hz 60.1 Hz)	
Sweep speed	5g (60.1 Hz 150 Hz)	
Test duration per axis	2.5 h	

## Durability test

Specification	IEC 60512-9-1:2010-03	
Impulse withstand voltage at sea level	4.8 kV	
Contact resistance R <sub>1</sub>	1.7 mΩ	
Contact resistance R <sub>2</sub>	1.8 mΩ	
Insertion/withdrawal cycles	25	
Insulation resistance, neighboring positions	> 5 MΩ	

### Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm}^3\mathrm{SO}_2\mathrm{on}300~\mathrm{dm}^3/40~^{\circ}\mathrm{C}/1~\mathrm{cycle}$
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 kV

### Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Relative humidity (storage/transport)	30 % 70 %	
Ambient temperature (assembly)	-5 °C 100 °C	

## Packaging specifications

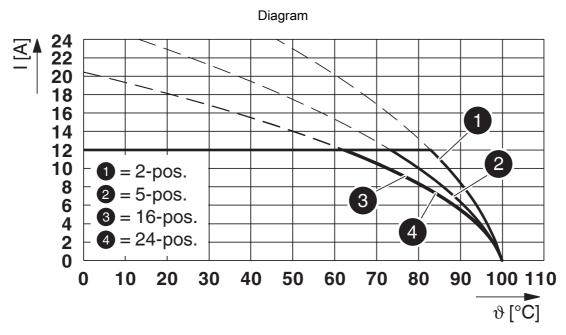
Type of packaging	packed in cardboard

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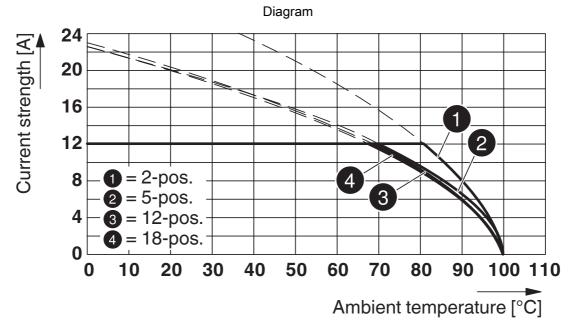
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## **Drawings**



Type: MSTB 2,5/...-ST with MSTB 2,5/...-G

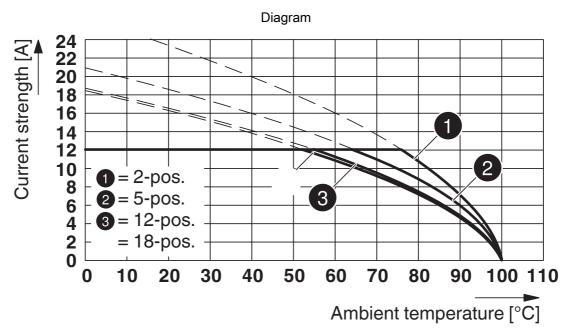


Type: MSTBTP 2,5/...-ST with MSTB 2,5/...-G

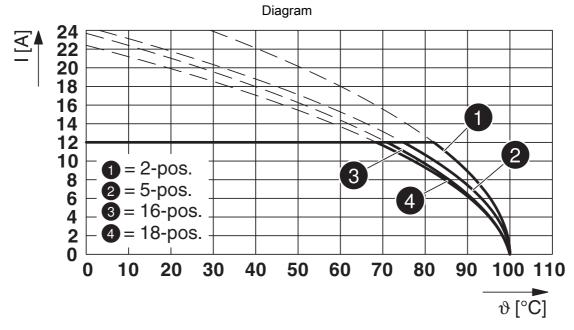


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Type: FKCS 2,5/...-ST with MSTB 2,5/...-G

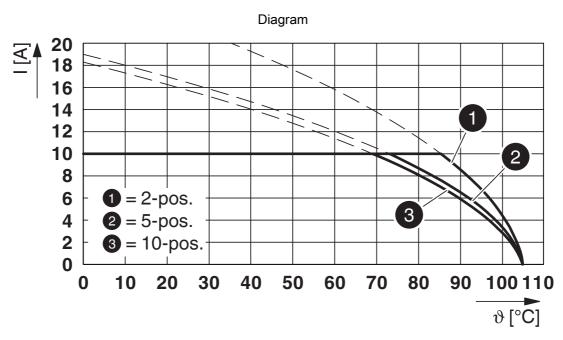


Type: FKCN 2,5/...-ST with MSTB 2,5/...-G

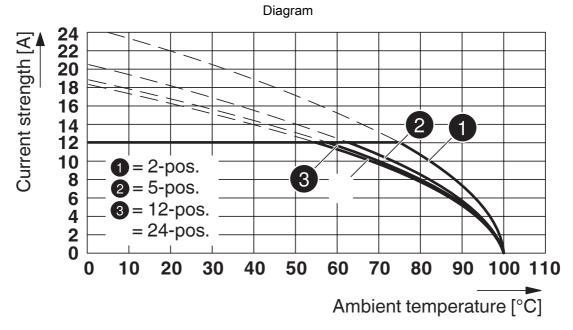


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Type: TVFKC 1,5/...-ST with MSTB 2,5/...-G

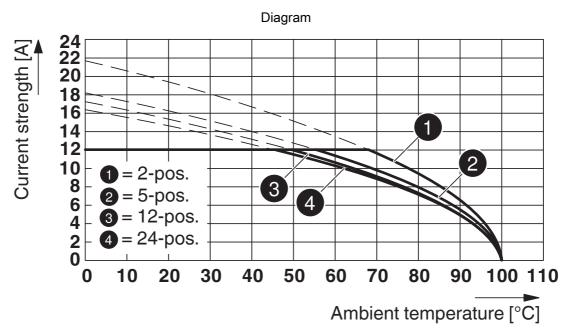


Type: FRONT-MSTB 2,5/..-ST with MSTB 2,5/...-G

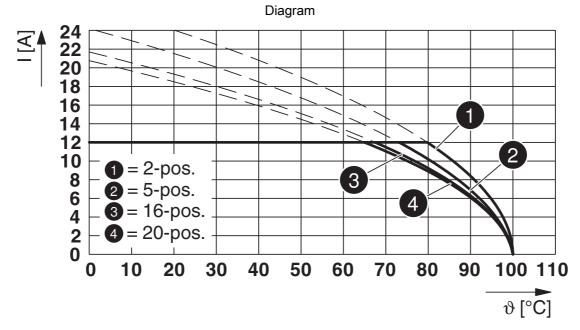


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Type: SMSTB 2,5/...-ST with MSTB 2,5/...-G

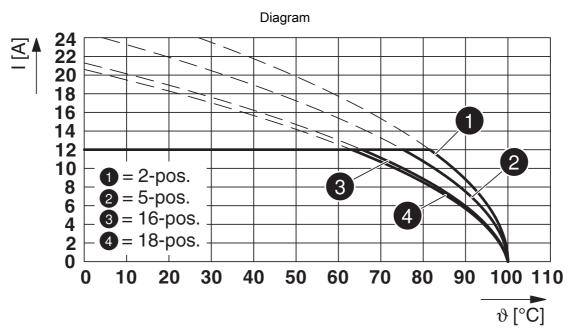


Type: FKCT 2,5/...-ST with MSTB 2,5/...-G



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Type: FKCV(W/R) 2,5/...-ST with MSTB 2,5/...-G



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# Approvals

•	CSA Approval ID: 13631				
		Nominal Voltage $U_N$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		300 V	10 A	-	-
		300 V	10 A	-	-

CB scheme	IECEE CB Scheme Approval ID: DE1-60988-B1B2				
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		250 V	12 A	-	-

EAC	EAC
LIIL	Approval ID: B.01687

c <b>911</b> us	<b>cULus Recognized</b> Approval ID: E60425-19931011				
		Nominal Voltage $\mathbf{U}_{\mathbf{N}}$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		300 V	15 A	-	-
		300 V	10 A	-	-

VDE Zeichengeneh Approval ID: 40050648	VDE Zeichengenehmigung Approval ID: 40050648					
	Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>		
	250 V	12 A	-	-		



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# Classifications

UNSPSC 21.0

### **ECLASS**

	ECLASS-11.0	27460201			
	ECLASS-12.0	27460201			
	ECLASS-13.0	27460201			
ETIM					
	ETIM 8.0	EC002637			
UNSPSC					

39121400



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# **Environmental Product Compliance**

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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### Accessories

### CR-MSTB - Coding section

1734401

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Coding section, inserted into the recess in the header or the inverted plug, red insulating material



### MSTB-BF - Accessories

#### 1759981

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Mounting flange, for fixing both ends of the header onto the PCB, green insulating material, with M 2 x 14 screws and nuts.



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### MSTB-BL - Accessories

1755477

https://www.phoenixcontact.com/in/products/1755477



Keying cap, for forming sections, plugs onto header pin, green insulating material

## SK 5/3,8:FORTL.ZAHLEN - Marker card

0804183

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Marker card, white, labeled, horizontal: consecutive numbers 1  $\dots$  10, 11  $\dots$  20, etc. up to 91  $\dots$  (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm

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#### TVFKC 1,5/4-ST - PCB connector

1713855

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TVFKC 1,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### TVFKCL 1,5/4-ST - PCB connector

1715947

https://www.phoenixcontact.com/in/products/1715947



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TVFKCL 1,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### QC 1,5/4-ST - PCB connector

1717987

https://www.phoenixcontact.com/in/products/1717987



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: QC 1,5/..-ST, pitch: 5 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, locking clip: Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FKCN 2,5/4-ST - PCB connector

1732768

https://www.phoenixcontact.com/in/products/1732768



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCN 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### MSTB 2,5/ 4-ST - PCB connector

1754481

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### MSTBP 2,5/ 4-ST - PCB connector

1765797

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBP 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### SMSTB 2,5/ 4-ST - PCB connector

1768781

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SMSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -45 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FRONT-MSTB 2,5/ 4-ST - PCB connector

1779437

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FRONT-MSTB 2,5/..-ST, pitch: 5 mm, connection method: Front screw connection, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### MSTBT 2,5/ 4-ST - PCB connector

1779851

https://www.phoenixcontact.com/in/products/1779851



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBT 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### MVSTBW 2,5/ 4-STEH - PCB connector

1784299

https://www.phoenixcontact.com/in/products/1784299



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBW 2,5/..-STEH, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### MVSTBR 2,5/4-ST - PCB connector

1792032

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBR 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### MVSTBW 2,5/ 4-ST - PCB connector

1792540

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBW 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### FKCT 2,5/4-ST - PCB connector

1909236

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FKCVR 2,5/4-ST - PCB connector

1909731

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCVR 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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#### FKCVW 2,5/4-ST - PCB connector

1910050

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCVW 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FKC 2,5/4-ST - PCB connector

1910377

https://www.phoenixcontact.com/in/products/1910377



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKC 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

1754478

https://www.phoenixcontact.com/in/products/1754478



#### QC 1/4-ST-BUS - PCB connector

1921696

https://www.phoenixcontact.com/in/products/1921696



PCB connector, nominal cross section: 1 mm², color: green, nominal current: 10 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: QC 1/..-ST-BUS, pitch: 5 mm, connection method: Displacement connection, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard, The plug allows conductors to be looped through from module to module, without interruption

#### FKCS 2,5/4-ST - PCB connector

1974753

https://www.phoenixcontact.com/in/products/1974753



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCS 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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