

# ICC 2,5/ 6-STZ-5,08 - PCB connector



1823888

<https://www.phoenixcontact.com/in/products/1823888>

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PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, type of contact: Pin, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: ICC 2,5/...-STZ, pitch: 5.08 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard, Corresponding male crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

## Your advantages

- Inexpensive connection of large quantities of pre-assembled conductors
- Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Can be combined with the MSTB 2,5 range
- Intuitive locking mechanism prevents accidental disconnection

## Commercial Data

Item number	1823888
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to Order (non-returnable)
Sales Key	AAC
Product Key	AACCBA
Catalog Page	Page 296 (C-1-2013)
GTIN	4017918048730
Weight per Piece (including packing)	3.961 g
Weight per Piece (excluding packing)	3.961 g
Customs tariff number	85389099
Country of origin	PL

# ICC 2,5/ 6-STZ-5,08 - PCB connector



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## Technical Data

### Product properties

Type	Inverted
Product line	COMBICON Connectors M
Product type	PCB plug
Product family	ICC 2,5/...STZ
Number of positions	6
Pitch	5.08 mm
Number of connections	6
Number of rows	1
Mounting flange	without
Number of potentials	6

### Electrical properties

Nominal current $I_N$	12 A
Nominal voltage $U_N$	320 V
Degree of pollution	3
Rated voltage (III/3)	250 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

### Connection data

#### Connection technology

Type	Inverted
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm <sup>2</sup>
Type of contact	Pin

#### Interlock

Locking type	Snap-in locking
Mounting flange	Engagement nose

#### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	20 ... 14

### Material specifications

# ICC 2,5/ 6-STZ-5,08 - PCB connector

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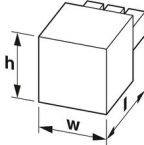
## Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
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 ( )	( )
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## Dimensions

Dimensional drawing	
Pitch	5.08 mm
Width [w]	36.27 mm
Height [h]	10.6 mm
Length [l]	28.1 mm

## 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.
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## Electrical tests

### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Packaging specifications

Type of packaging	packed in cardboard
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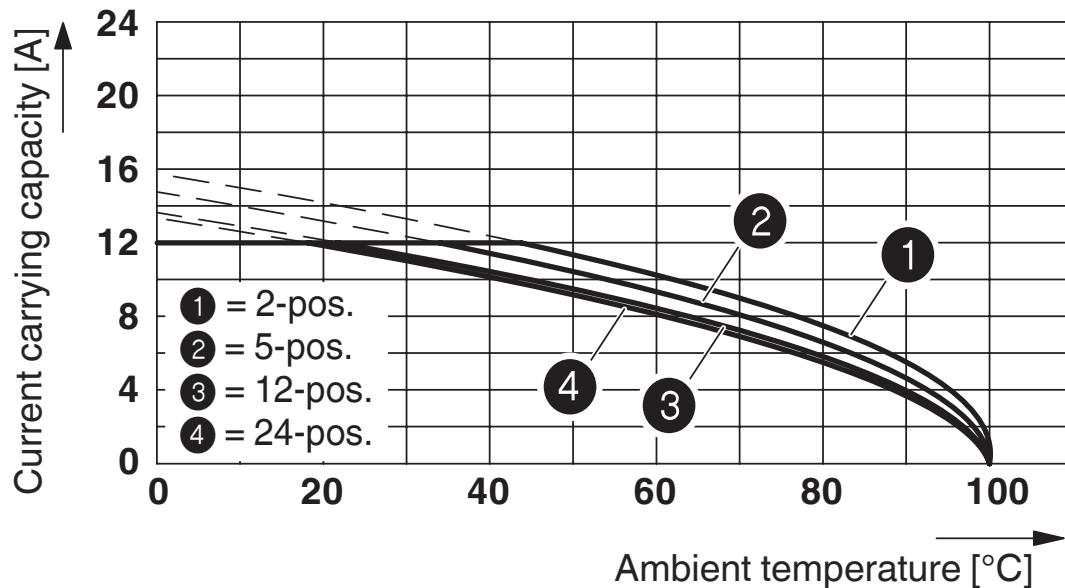
# ICC 2,5/ 6-STZ-5,08 - PCB connector

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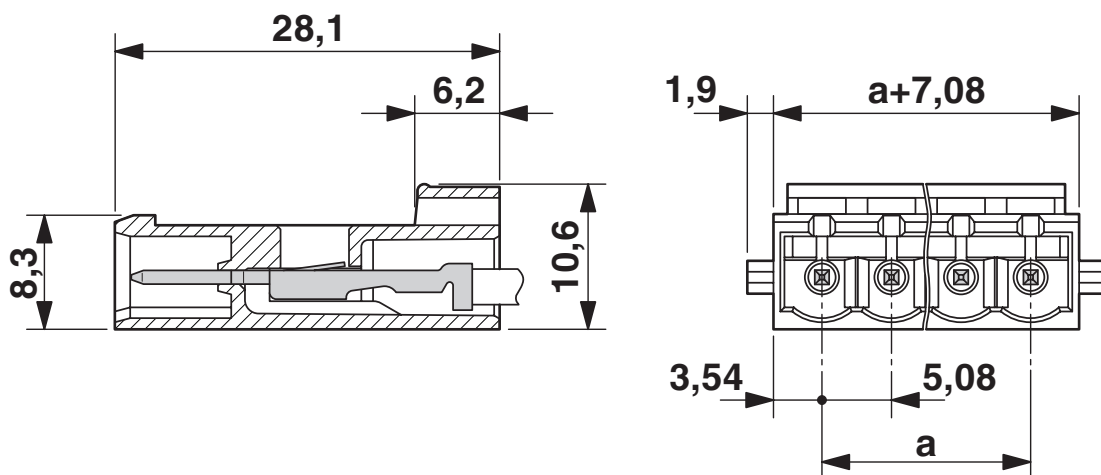
## Drawings

Diagram



Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08; contact: ICC-MT 1,5 - 2,5

Dimensional drawing




# ICC 2,5/ 6-STZ-5,08 - PCB connector





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## Approvals

 <b>cULus Recognized</b> Approval ID: E60425-19930525				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	300 V	10 A	20 - 14	-
	300 V	10 A	20 - 14	-

 <b>CSA</b> Approval ID: 13631				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	300 V	10 A	20 - 14	-
	300 V	10 A	20 - 14	-

 <b>IECEE CB Scheme</b> Approval ID: DE1-60988-B1B2				
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 <b>EAC</b> Approval ID: B.01687				
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 <b>VDE Zeichengenehmigung</b> Approval ID: 40050648				
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# ICC 2,5/ 6-STZ-5,08 - PCB connector



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## Classifications

### ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

### ETIM

ETIM 8.0	EC002638
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### UNSPSC

UNSPSC 21.0	39121400
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# ICC 2,5/ 6-STZ-5,08 - PCB connector



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## Environmental Product Compliance

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

# ICC 2,5/ 6-STZ-5,08 - PCB connector



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## Accessories

### ICC-MT 0,5-1,0 - Crimp contact

3190577

<https://www.phoenixcontact.com/in/products/3190577>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>

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### ICC-MT 0,5-1,0 BA - Crimp contact

3190603

<https://www.phoenixcontact.com/in/products/3190603>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>, ribbon contact



## ICC 2,5/ 6-STZ-5,08 - PCB connector

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### ICC-MT 1,5-2,5 - Crimp contact

3190580

<https://www.phoenixcontact.com/in/products/3190580>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>

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### ICC-MT 1,5-2,5 BA - Crimp contact

3190593

<https://www.phoenixcontact.com/in/products/3190593>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>, ribbon contact

# ICC 2,5/ 6-STZ-5,08 - PCB connector

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## CRIMPFOX MT 2,5 - Crimping pliers

1204038

<https://www.phoenixcontact.com/in/products/1204038>



Crimping pliers, for crimping conductors to the module female contacts STG-MTN, crimp range: 0.5-2.5 mm<sup>2</sup>, AWG: 20-14

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## SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/in/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

# ICC 2,5/ 6-STZ-5,08 - PCB connector

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## STZ 2-MSTBC-5,08 - Strain relief

1810529

<https://www.phoenixcontact.com/in/products/1810529>



Strain relief for snapping into the latching chambers of the plug components, 2-pos., labeling with ZB 6

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## STZ 4-MSTBC-5,08 - Strain relief

1810532

<https://www.phoenixcontact.com/in/products/1810532>



Strain relief for snapping into the latching chambers of the plug components, 4-pos., labeling with ZB 6

# ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

<https://www.phoenixcontact.com/in/products/1823888>

## STZ 8-MSTBC-5,08 - Strain relief

1810516

<https://www.phoenixcontact.com/in/products/1810516>



Strain relief for snapping into the latching chambers of the plug components, 8-pos., labeling with ZB 6

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## STZ 12-MSTBC-5,08 - Strain relief

1810503

<https://www.phoenixcontact.com/in/products/1810503>



Strain relief for snapping into the latching chambers of the plug components, 12-pos., labeling with ZB 6

## ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

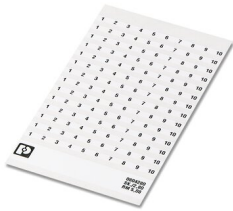
<https://www.phoenixcontact.com/in/products/1823888>



## SK 5,08/2,8:FORTL.ZAHLEN - Marker card

0804280

<https://www.phoenixcontact.com/in/products/0804280>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 2.8 mm

## MSTBT 2,5/ 6-ST-5,08 - PCB connector

1781027

<https://www.phoenixcontact.com/in/products/1781027>



PCB connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTBT 2,5/...-ST, pitch: 5.08 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

# ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

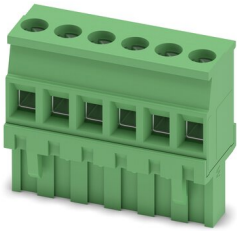
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## MVSTBR 2,5/ 6-ST-5,08 - PCB connector

1792281

<https://www.phoenixcontact.com/in/products/1792281>

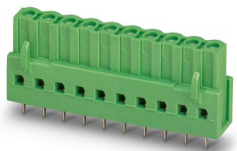


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MVSTBR 2,5/...-ST, pitch: 5.08 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

## ICV 2,5/ 6-G-5,08 - PCB header

1785984

<https://www.phoenixcontact.com/in/products/1785984>



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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: ICV 2,5/...-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.6 mm, number of solder pins per potential: 2, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

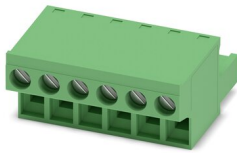
<https://www.phoenixcontact.com/in/products/1823888>



### FRONT-MSTB 2,5/ 6-ST-5,08 - PCB connector

1777329

<https://www.phoenixcontact.com/in/products/1777329>

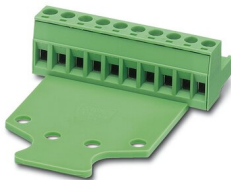


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FRONT-MSTB 2,5/..-ST, pitch: 5.08 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

### MSTB 2,5/ 6-STZ-5,08 - PCB connector

1776126

<https://www.phoenixcontact.com/in/products/1776126>



PCB connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTB 2,5/..-STZ, pitch: 5.08 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

## ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

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## MSTBP 2,5/ 6-ST-5,08 - PCB connector

1769052

<https://www.phoenixcontact.com/in/products/1769052>



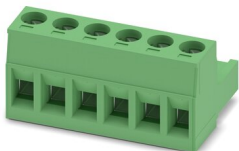
PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTBP 2,5/..-ST, pitch: 5.08 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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## MSTB 2,5/ 6-ST-5,08 - PCB connector

1757051

<https://www.phoenixcontact.com/in/products/1757051>



PCB connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTB 2,5/..-ST, pitch: 5.08 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



## ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

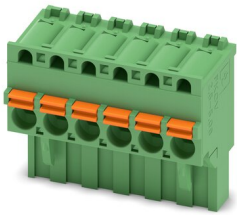
<https://www.phoenixcontact.com/in/products/1823888>



## FKCVR 2,5/ 6-ST-5,08 - PCB connector

1873993

<https://www.phoenixcontact.com/in/products/1873993>

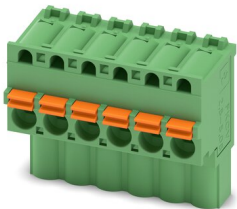


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FKCVR 2,5/...-ST, pitch: 5.08 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

## FKCVW 2,5/ 6-ST-5,08 - PCB connector

1873692

<https://www.phoenixcontact.com/in/products/1873692>



PCB connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FKCVW 2,5/...-ST, pitch: 5.08 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

## ICC 2,5/ 6-STZ-5,08 - PCB connector

1823888

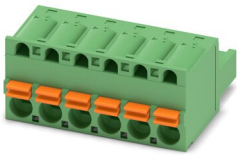
<https://www.phoenixcontact.com/in/products/1823888>



## FKC 2,5/ 6-ST-5,08 - PCB connector

1873090

<https://www.phoenixcontact.com/in/products/1873090>



PCB connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FKC 2,5/..-ST, pitch: 5.08 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

## MSTBVK 2,5/ 6-ST-5,08 - DIN rail connector

1831359

<https://www.phoenixcontact.com/in/products/1831359>



DIN rail connector, 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: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTBVK 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: DIN rail, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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