# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

1047898

https://www.phoenixcontact.com/us/products/1047898

PHŒNIX CONTACT

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PCB connector, nominal cross section: 0.75 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTCM 0,5/..-PI, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

## Your advantages

- High current carrying capacity of 6 A in very compact dimensions
- Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- Cost-effective connection of crimped conductors in large quantities
- Tools for manual and automatic crimping available as an option

## Commercial data

| | |
|---|---|
| Item number | 1047898 |
| Packing unit | 250 pc |
| Minimum order quantity | 250 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA01 |
| Product key | AAACPB |
| GTIN | 4055626649337 |
| Weight per piece (including packing) | 2.3 g |
| Weight per piece (excluding packing) | 2.22 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

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## Technical data

### Product properties

| | |
|---|---|
| Product type | PCB connector |
| Product family | PTCM 0,5/..-PI |
| Product line | COMBICON Connectors XS |
| Number of positions | 4 |
| Pitch | 2.5 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |

#### Data management status

| | |
|---|---|
| Article revision | 00 |

### Electrical properties

| | |
|---|---|
| Nominal current $I_N$ | 6 A |
| Nominal voltage $U_N$ | 160 V |
| Rated voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |

### Connection data

#### Connection technology

| | |
|---|---|
| Type | Inverted |
| Connector system | COMBICON PTSM |
| Nominal cross section | 0.75 mm² |
| Contact connection type | 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 | 0.14 mm² ... 0.75 mm² (Maximum external diameter of the insulation 1.9 mm) |
| Conductor cross section AWG | 26 ... 18 (Maximum external diameter of the insulation 1.9 mm) |
| Stripping length | 4.1 mm ... 4.5 mm |

### Material specifications

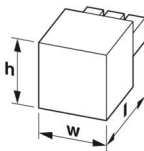# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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Material data - contact

| | |
|---|---|
| Metal surface contact area (top layer) | Tin (Sn) |

Material data - housing

| | |
|---|---|
| Color (Housing) | black (9005) |
| 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 |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Pitch | 2.5 mm |
| Width [w] | 11.7 mm |
| Height [h] | 5 mm |
| Length [l] | 18.3 mm |

## Electrical tests

Air clearances and creepage distances |

| | |
|---|---|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2 mm |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.5 mm |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

## Packaging specifications

| Type of packaging | packed in cardboard |
|---|---|

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002638 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

### EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

### China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

### EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## Accessories

### PTCM-MP-PI 0,34-0,75 R - Crimp contact

1013987

https://www.phoenixcontact.com/us/products/1013987

Crimp contact, nominal current: 6 A, contact connection type: Pin, connection
method: Crimp connection, contact surface: Tin, type of packaging: Belt

### PTCM-MP-PI 0,14-0,5 R - Crimp contact

1013988

https://www.phoenixcontact.com/us/products/1013988

Crimp contact, nominal current: 6 A, contact connection type: Pin, connection
method: Crimp connection, contact surface: Tin, type of packaging: Belt

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## PTCM-MP-PI 0,34-0,75 - Crimp contact

1013989

https://www.phoenixcontact.com/us/products/1013989

Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Bulk goods

## PTCM-MP-PI 0,14-0,5 - Crimp contact

1013990

https://www.phoenixcontact.com/us/products/1013990

Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Bulk goods

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## CRIMPFOX-P CC 0.75 L - Crimping pliers

1064998

https://www.phoenixcontact.com/us/products/1064998



Crimping pliers, for COMBICON crimp connectors with cross section: 0.14 ... 0.75 mm$^2$. Unlockable pressure lock, precise parallel crimping, front entry, B crimp, incl. 2 positioning aids

## PTSM 0,5/ 4-P-2,5 - PCB connector

1778858

https://www.phoenixcontact.com/us/products/1778858



PCB connector, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-P, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: without, mounting: without, type of packaging: packed in cardboard

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## PTSM 0,5/ 4-HHI-2,5-SMD R44 - PCB header

1810735

https://www.phoenixcontact.com/us/products/1810735

PCB headers, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-SMD, pitch: 2.5 mm, mounting: SMD soldering, pin layout: Linear pad geometry, solder pin [P]: 2 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 44 mm wide tape, Article with anti-rotation pin

## PTSM 0,5/ 4-HHI0-2,5-SMD R44 - PCB connector

1815141

https://www.phoenixcontact.com/us/products/1815141

PCB headers, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-SMD, pitch: 2.5 mm, mounting: SMD soldering, pin layout: Linear pad geometry, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 44 mm wide tape

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## PTSM 0,5/ 4-HHI1-2,5-THR R32 - PCB header

1810803

https://www.phoenixcontact.com/us/products/1810803

PCB headers, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-THR, pitch: 2.5 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 32 mm wide tape, Article with anti-rotation pin

## PTSM 0,5/ 4-HHI-2,5-THR R32 - PCB header

1815073

https://www.phoenixcontact.com/us/products/1815073

PCB headers, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-THR, pitch: 2.5 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 32 mm wide tape

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## PTSM 0,5/ 4-PL-2,5 BK - PCB connector

1709444

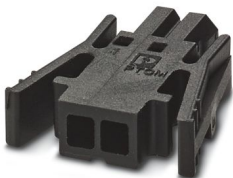https://www.phoenixcontact.com/us/products/1709444

PCB connector, nominal cross section: 0.5 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-PL, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Latching flange, type of packaging: packed in cardboard

## PTCM 0,5/ 4-PL-2,5 BK - PCB connector

1048118

https://www.phoenixcontact.com/us/products/1048118

PCB connector, nominal cross section: 0.75 mm$^2$, color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact connection type: Socket, number of rows: 1, number of positions: 4, product range: PTCM 0,5/..-PL, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Latching flange, type of packaging: packed in cardboard

# PTCM 0,5/ 4-PI-2,5 BK - PCB connector

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## CAC-PTCM1015462/D - Cable

1084513

https://www.phoenixcontact.com/us/products/1084513

Assembled PCB connector /  Connecting cable with 2 printed circuit board connectors, rated current: 6 A, cable length: Free input (0.1 ... 3.0 m), Head 1: 4-position ,  pitch: 2.5 mm ,  Crimp connection ,  Socket, Color: white,  Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 4-position,  pitch: 2.5 mm ,  Crimp connection ,  Socket, Color: white,  Cable type:Individual litz wire, PVC, 20 AWG, white,  Individual litz wire, PVC, 22 AWG, white

## CAC-PTCM1015462/1015244 - Assembled PCB connectors

1084535

https://www.phoenixcontact.com/us/products/1084535

Assembled PCB connector /  Connecting cable with 2 printed circuit board connectors, rated current: 6 A, cable length: Free input (0.1 ... 3.0 m), Head 1: 4-position ,  pitch: 2.5 mm ,  Crimp connection ,  Socket, Color: white,  Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 4-position,  pitch: 2.5 mm ,  Crimp connection ,  Pin, Color: white,  Cable type:Individual litz wire, PVC, 20 AWG, white,  Individual litz wire, PVC, 22 AWG, white

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