

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB connector, nominal cross section: 0.75 mm², color: white, nominal current: 6 A, rated voltage (III/2): 160 V, contact connection type: Socket, number of rows: 1, number of positions: 5, product range: PTCM 0,5/..-P, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTS, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- White design: Stable color when welding and during use
- High current carrying capacity of 6 A in very compact dimensions
- Cost-effective connection of crimped conductors in large quantities
- Tools for manual and automatic crimping available as an option

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1269183 |
| Packing unit | 100 pc |
| Minimum order quantity | 100 pc |
| Sales key | AA01 |
| Product key | AAACPA |
| GTIN | 4063151421724 |
| Weight per piece (including packing) | 0.72 g |
| Weight per piece (excluding packing) | 2.22 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

PTCM 0,5/ 5-P-2,5 WH - PCB connector



1269183

<https://www.phoenixcontact.com/us/products/1269183>

Technical data

Product properties

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

Electrical properties

Properties

| | |
|-----------------------------|--------|
| Nominal current I_N | 6 A |
| Nominal voltage U_N | 160 V |
| Contact resistance | 3.2 mΩ |
| 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

| | |
|-------------------------|----------------------|
| Connector system | COMBICON PTSM |
| Nominal cross section | 0.75 mm ² |
| Contact connection type | Socket |

Interlock

| | |
|---------------|---------|
| Locking type | without |
| Mounting type | without |

Conductor connection

| | |
|------------------------------------|--|
| Connection method | Crimp connection |
| Conductor/PCB connection direction | 0 ° |
| Conductor cross-section flexible | 0.14 mm ² ... 0.75 mm ² (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

Material data - contact

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

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



Material data - housing

| | |
|---|--------------|
| Color (Housing) | white (9010) |
| 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

| | |
|------------|---------|
| Pitch | 2.5 mm |
| Width [w] | 13.3 mm |
| Height [h] | 3.9 mm |
| Length [l] | 16.2 mm |

Notes

| | |
|---------------------|--|
| Note on the contact | The information on the basic material and the finish properties of the crimp contacts is to be found in the E-Shop in the technical data for the respective crimp contact. |
| Note on application | All laboratory tests are performed in combination with the crimp contacts specified as accessories. |
| Note on application | The current depends on the crimp contact and conductor cross-section used. |
| Note on application | The corresponding crimp contacts are to be found in the "Accessories" tab. |
| Note on application | The crimp contacts may only be processed with approved crimping tools. |
| Note on the contact | These connectors conform to DIN EN 61984, connectors without switching capacity (COC). When used for their intended purpose, they must not be plugged in or disconnected live or under load. |

Mechanical tests

Tensile strength of crimp connections

| | |
|---|--|
| Result | Test passed |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 0.14 mm ² / flexible / > 18 N |

Insertion and withdrawal forces

| | |
|-------------------------------------|------------------------|
| Specification | IEC 60512-13-2:2006-02 |
| Result | Test passed |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 3 N |
| Withdraw strength per pos. approx. | 2 N |

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



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

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-2:2002-02 |
| Result | Test passed |

Environmental and real-life conditions

Durability test

| | |
|--|-----------------------|
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 2.95 kV |
| Contact resistance R_1 | 3.2 mΩ |
| Contact resistance R_2 | 3.4 mΩ |
| Insertion/withdrawal cycles | 25 |
| Insulation resistance, neighboring positions | > 5 MΩ |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 105 °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 |

Electrical tests

Thermal test | Test group C

| | |
|----------------------------|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 8 |

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 |

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



| | |
|--|--------|
| 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 |

Packaging specifications

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

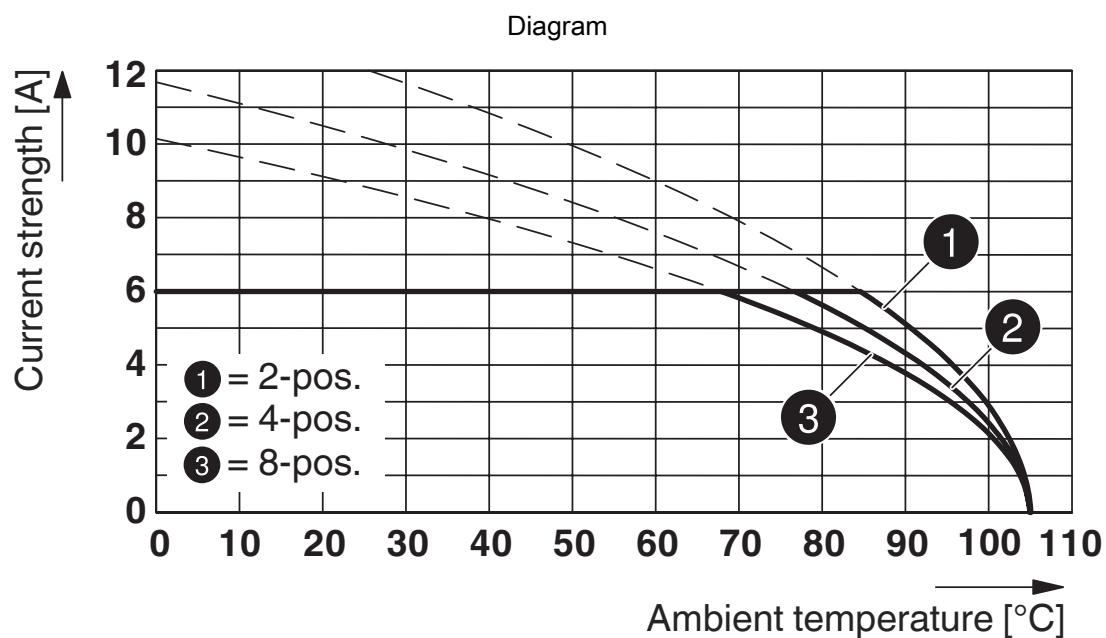
PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



Drawings



Type: PTCM 0,5/...-P-2,5 WH with PTCM 0,5/...-PI-2,5 WH

PTCM 0,5/ 5-P-2,5 WH - PCB connector



1269183

<https://www.phoenixcontact.com/us/products/1269183>

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1269183>

| cULus Recognized | | | | |
|------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| Approval ID: E60425-20101209 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 150 V | 6 A | 22 - 18 | - |
| D | 150 V | 6 A | 22 - 18 | - |

| VDE approval of drawings | | | | |
|--------------------------|-----------------------|-----------------------|-------------------|----------------------|
| Approval ID: 40048497 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 160 V | 6 A | - | 0.14 - 0.75 |

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460202 |
| ECLASS-15.0 | 27460202 |

ETIM

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

PTCM 0,5/ 5-P-2,5 WH - PCB connector

1269183

<https://www.phoenixcontact.com/us/products/1269183>



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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com