

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



1942390  
<https://www.phoenixcontact.com/us/products/1942390>

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PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKC 2,5 HC/...-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 HC, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive operation due to color-coded actuating push button
- Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- Optimized for tight installation situations: operation and conductor connection from one direction
- Quick and convenient testing using integrated test option

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1942390             |
| Packing unit                         | 100 pc              |
| Minimum order quantity               | 100 pc              |
| Sales key                            | AA03                |
| Product key                          | AACFBA              |
| Catalog page                         | Page 494 (C-1-2013) |
| GTIN                                 | 4017918878290       |
| Weight per piece (including packing) | 7.277 g             |
| Weight per piece (excluding packing) | 7.207 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | PCB connector         |
| Product family        | FKC 2,5 HC/...-ST     |
| Product line          | COMBICON Connectors M |
| Type                  | Standard              |
| Number of positions   | 4                     |
| Pitch                 | 5.08 mm               |
| Number of connections | 4                     |
| Number of rows        | 1                     |
| Number of potentials  | 4                     |
| Mounting flange       | without               |

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 16 A   |
| Nominal voltage $U_N$       | 320 V  |
| Degree of pollution         | 3      |
| Contact resistance          | 0.9 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   |

### Connection data

#### Connection technology

|                         |                      |
|-------------------------|----------------------|
| Type                    | Standard             |
| Connector system        | COMBICON MSTB 2,5 HC |
| Nominal cross section   | 2.5 mm <sup>2</sup>  |
| Contact connection type | Socket               |

#### Interlock

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

#### Conductor connection

|                                                                |                                              |
|----------------------------------------------------------------|----------------------------------------------|
| Connection method                                              | Push-in spring connection                    |
| Conductor/PCB connection direction                             | 0 °                                          |
| Conductor cross section rigid                                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible                               | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG                                    | 24 ... 12                                    |
| Conductor cross section flexible, with ferrule without plastic | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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|                                                                                           |                          |
|-------------------------------------------------------------------------------------------|--------------------------|
| sleeve                                                                                    |                          |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                      | 0.25 mm² ... 2.5 mm²     |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1.5 mm²      |
| Cylindrical gauge a x b / diameter                                                        | 2.8 mm x 2.0 mm / 2.0 mm |
| Stripping length                                                                          | 10 mm                    |

## Specifications for ferrules without insulating collar

|                                                              |                                                 |
|--------------------------------------------------------------|-------------------------------------------------|
| recommended crimping tool                                    | 1212034 CRIMPFOX 6                              |
| ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.5 mm²; Length: 8 mm ... 10 mm  |
|                                                              | Cross section: 0.75 mm²; Length: 8 mm ... 10 mm |
|                                                              | Cross section: 1 mm²; Length: 8 mm ... 10 mm    |
|                                                              | Cross section: 1.5 mm²; Length: 8 mm ... 10 mm  |
|                                                              | Cross section: 2.5 mm²; Length: 10 mm           |

## Specifications for ferrules with insulating collar

|                                                           |                                                 |
|-----------------------------------------------------------|-------------------------------------------------|
| recommended crimping tool                                 | 1212034 CRIMPFOX 6                              |
| ferrules with insulating collar, according to DIN 46228-4 | Cross section: 0.5 mm²; Length: 8 mm ... 10 mm  |
|                                                           | Cross section: 0.75 mm²; Length: 8 mm ... 10 mm |
|                                                           | Cross section: 1 mm²; Length: 8 mm ... 10 mm    |
|                                                           | Cross section: 1.5 mm²; Length: 8 mm ... 10 mm  |
|                                                           | Cross section: 2.5 mm²; Length: 10 mm           |

## 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                  | hot-dip tin-plated                                                               |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn)                                                                |
| Metal surface contact area (top layer)   | Tin (4 - 8 µm Sn)                                                                |

### 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 (Actuating element) | orange (2003) |
|---------------------------|---------------|

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|                                        |     |
|----------------------------------------|-----|
| Insulating material                    | PBT |
| Insulating material group              | I   |
| CTI according to IEC 60112             | 600 |
| Flammability rating according to UL 94 | V0  |

## Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Pitch               | 5.08 mm                                                                            |
| Width [w]           | 20.94 mm                                                                           |
| Height [h]          | 15 mm                                                                              |
| Length [l]          | 25.73 mm                                                                           |

## Notes

|         |                                                                                                                                                                                          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | 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. |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Mechanical tests

### Conductor connection

|               |                     |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result        | Test passed         |

### Test for conductor damage and slackening

|               |                     |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result        | Test passed         |

### Repeated connection and disconnection

|               |                     |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result        | Test passed         |

### Pull-out test

|                                                                             |                                         |
|-----------------------------------------------------------------------------|-----------------------------------------|
| Specification                                                               | IEC 60999-1:1999-11                     |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.2 mm <sup>2</sup> / solid / > 10 N    |
|                                                                             | 0.2 mm <sup>2</sup> / flexible / > 10 N |
|                                                                             | 2.5 mm <sup>2</sup> / solid / > 50 N    |
|                                                                             | 2.5 mm <sup>2</sup> / flexible / > 50 N |

### Insertion and withdrawal forces

|                                     |             |
|-------------------------------------|-------------|
| Result                              | Test passed |
| No. of cycles                       | 50          |
| Insertion strength per pos. approx. | 6 N         |

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|                                    |                        |
|------------------------------------|------------------------|
| Withdraw strength per pos. approx. | 5 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                    |                        |
| Specification                      | IEC 60512-1-2:2002-02  |
| Result                             | Test passed            |

## Environmental and real-life conditions

|                                              |                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------|
| Vibration test                               |                                                                           |
| 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)                                               |
| Acceleration                                 | 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 $R_1$                     | 0.9 m $\Omega$                                                            |
| Contact resistance $R_2$                     | 1.1 m $\Omega$                                                            |
| Insertion/withdrawal cycles                  | 50                                                                        |
| Insulation resistance, neighboring positions | > 5 M $\Omega$                                                            |
| Climatic test                                |                                                                           |
| Specification                                | ISO 6988:1985-02                                                          |
| Corrosive stress                             | 0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 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                                                          |

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## Electrical tests

### Thermal test | Test group C

|                            |                       |
|----------------------------|-----------------------|
| Specification              | IEC 60512-5-1:2002-02 |
| Tested number of positions | 12                    |

### Insulation resistance

|                                              |                       |
|----------------------------------------------|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ                |

### 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)                       | 320 V               |
| Rated surge voltage (III/3)                            | 4 kV                |
| minimum clearance value - non-homogenous field (III/3) | 3 mm                |
| minimum creepage distance (III/3)                      | 4 mm                |
| Rated insulation voltage (III/2)                       | 320 V               |
| Rated surge voltage (III/2)                            | 4 kV                |
| 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              |

## Packaging specifications

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

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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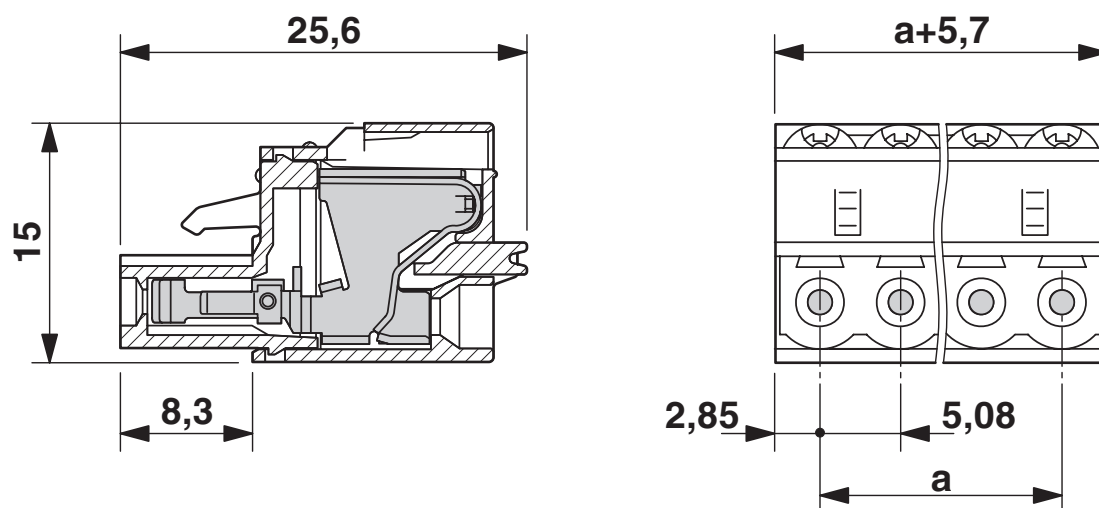
## Drawings

Diagram



Type: FKC 2,5 HC/...-ST-5,08 with MSTBVA 2,5 HC/...-G-5,08

Dimensional drawing

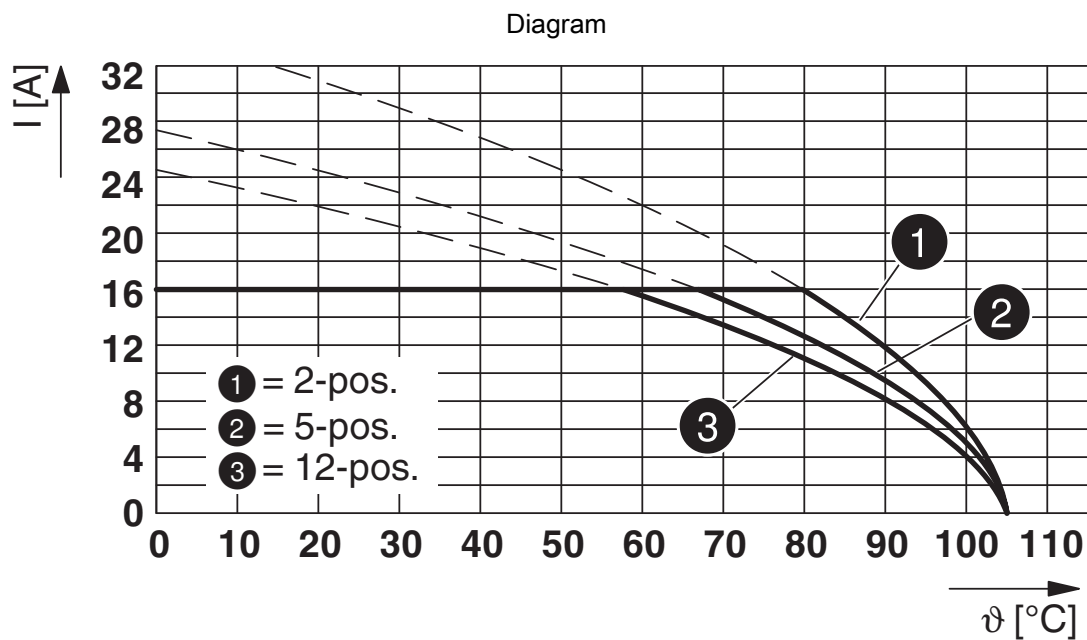


# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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Type: FKC 2,5 HC/...-ST-5,08 with MSTBA 2,5 HC/...-G-5,08

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1942390>

| cULus Recognized<br>Approval ID: E60425-19931011 |                                |                                |                   |                               |
|--------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                  | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| Use group B                                      |                                |                                |                   |                               |
| Standard                                         | 300 V                          | 16 A                           | 26 - 12           | -                             |
| Use group D                                      |                                |                                |                   |                               |
| Standard                                         | 300 V                          | 10 A                           | 26 - 12           | -                             |
| Alternative 1                                    | 150 V                          | 15 A                           | 26 - 12           | -                             |

| VDE Zeichengenehmigung<br>Approval ID: 40050079 |                                |                                |                   |                               |
|-------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                 | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                 | 250 V                          | 16 A                           | -                 | 0.2 - 2.5                     |

# FKC 2,5 HC/ 4-ST-5,08 - 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 |
|-------------|----------|

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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## 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%               |

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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## Accessories

### CP-MSTB - Coding profile

1734634

<https://www.phoenixcontact.com/us/products/1734634>

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



### RPS - Reducing plug

0201647

<https://www.phoenixcontact.com/us/products/0201647>

Reducing plug, number of positions: 1, color: gray



## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/us/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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## SK U/3,8 WH:UNBEDRUCKT - Marker card

0803906

<https://www.phoenixcontact.com/us/products/0803906>



Marker card, Din A4, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



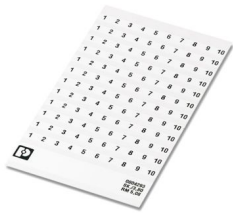
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<https://www.phoenixcontact.com/us/products/1942390>

## SK 3,8 REEL P5,08 WH CUS - Marker card

0825125

<https://www.phoenixcontact.com/us/products/0825125>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: continuous x 3.8 mm

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## SK 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

<https://www.phoenixcontact.com/us/products/0804293>



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 3.8 mm

## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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## SK 3,8 WH:REEL - Marker strip

0805218

<https://www.phoenixcontact.com/us/products/0805218>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: continuous x 3.8 mm, Number of individual labels: 12

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## MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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### MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



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### MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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<https://www.phoenixcontact.com/us/products/1942390>

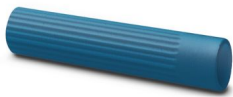


### MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



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### MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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### MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



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### MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



## FKC 2,5 HC/ 4-ST-5,08 - PCB connector

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## CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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

1876877

<https://www.phoenixcontact.com/us/products/1876877>



Strain relief for snapping into the latching chambers of the plugs, 4-pos.

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



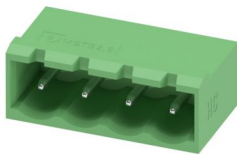
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<https://www.phoenixcontact.com/us/products/1942390>

## MSTBA 2,5 HC/ 4-G-5,08 - PCB header

1923885

<https://www.phoenixcontact.com/us/products/1923885>



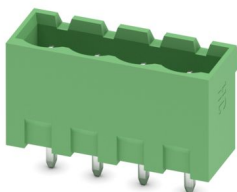
PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 16 A (see derating curve), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBA 2,5 HC/...-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.23 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5 HC, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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## MSTBVA 2,5 HC/ 4-G-5,08 - PCB header

1924321

<https://www.phoenixcontact.com/us/products/1924321>



PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 16 A (see derating curve), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBVA 2,5 HC/...-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5 HC, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

# FKC 2,5 HC/ 4-ST-5,08 - PCB connector



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## CCA 2,5/ 4-G-5,08 P26THR - PCB header

1954935

<https://www.phoenixcontact.com/us/products/1954935>

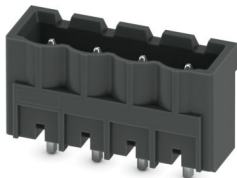


PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: CCA 2,5/...-G, pitch: 5.08 mm, connection method: Plug-in connection, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 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, For user information and design recommendations for through-hole reflow technology, go to: Downloads

## CCVA 2,5/ 4-G-5,08 P26THR - PCB header

1955879

<https://www.phoenixcontact.com/us/products/1955879>



PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: CCVA 2,5/...-G, pitch: 5.08 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 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, For user information and design recommendations for through-hole reflow technology, go to: Downloads

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