

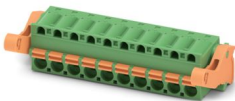
# FKC 2,5/10-ST-5,08-LR - PCB connector



1792591

<https://www.phoenixcontact.com/us/products/1792591>

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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, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKC 2,5/...-ST-LR, 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: Snap-in locking, mounting: Lock & Release ejector lever, type of packaging: packed in cardboard

## Your advantages

- Time saving push-in connection, tools not required
- Intuitive operation due to color-coded actuating push button
- Quick and convenient testing using integrated test option
- Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- Can be combined with the MSTB 2,5 range

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1792591             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AA03                |
| Product key                          | AACFBK              |
| Catalog page                         | Page 275 (C-1-2013) |
| GTIN                                 | 4046356615600       |
| Weight per piece (including packing) | 18.71 g             |
| Weight per piece (excluding packing) | 17.28 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|                       |                              |
|-----------------------|------------------------------|
| Product type          | PCB connector                |
| Product family        | FKC 2,5/...-ST-LR            |
| Product line          | COMBICON Connectors M        |
| Type                  | Standard                     |
| Number of positions   | 10                           |
| Pitch                 | 5.08 mm                      |
| Number of connections | 10                           |
| Number of rows        | 1                            |
| Number of potentials  | 10                           |
| Mounting flange       | Lock & Release ejector lever |

### Electrical properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 12 A  |
| Nominal voltage $U_N$       | 320 V |
| 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

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

#### Interlock

|                 |                              |
|-----------------|------------------------------|
| Locking type    | Snap-in locking              |
| Mounting flange | Lock & Release ejector lever |

#### Conductor connection

|   |  |
|---|--|
| Connection method   | Push-in spring connection                    |
| Connection direction of the conductor to plug-in direction            | 0 °  |
| 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 sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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|   |                     |
|---|---------------------|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1.5 mm² |
| 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) |
| Insulating material        | PBT           |
| Insulating material group  | I             |
| CTI according to IEC 60112 | 600           |

# FKC 2,5/10-ST-5,08-LR - PCB connector



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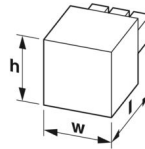
<https://www.phoenixcontact.com/us/products/1792591>

Flammability rating according to UL 94

V0

## Dimensions

Dimensional drawing



Pitch

5.08 mm

Width [w]

60.32 mm

Height [h]

15 mm

Length [l]

33.52 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.

## Environmental and real-life conditions

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

## 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)

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

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## Packaging specifications

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

# FKC 2,5/10-ST-5,08-LR - PCB connector





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1792591>

|   |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E60425-19931011</div> |                       |                       |                   |                             |
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B   |                       |                       |                   |                             |
|   | 300 V                 | 10 A                  | 26 - 12           | -                           |
| Use group D   |                       |                       |                   |                             |
|   | 300 V                 | 10 A                  | 26 - 12           | -                           |

|  |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>VDE Zeichengenehmigung</b><br/>Approval ID: 40050694</div> |                       |                       |                   |                             |
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 250 V                 | 12 A                  | -                 | 0.2 - 2.5                   |

# FKC 2,5/10-ST-5,08-LR - 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 2,5/10-ST-5,08-LR - 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 2,5/10-ST-5,08-LR - 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



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

1876880

<https://www.phoenixcontact.com/us/products/1876880>

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



## FKC 2,5/10-ST-5,08-LR - PCB connector

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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

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## RPS - Reducing plug

0201647

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



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

## FKC 2,5/10-ST-5,08-LR - PCB connector

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<https://www.phoenixcontact.com/us/products/1792591>



## 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

## CC 2,5/10-GF-5,08-LR P26THR - PCB header

1792708

<https://www.phoenixcontact.com/us/products/1792708>



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: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: CC 2,5/-GF-LR, 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: Snap-in locking, mounting: Lock & release threaded flange, type of packaging: packed in cardboard

# FKC 2,5/10-ST-5,08-LR - PCB connector



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## CCV 2,5/10-GF-5,08-LR P26THR - PCB header

1792818

<https://www.phoenixcontact.com/us/products/1792818>



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: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: CCV 2,5/...-GF-LR, 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: Snap-in locking, mounting: Lock & release threaded flange, type of packaging: packed in cardboard

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