

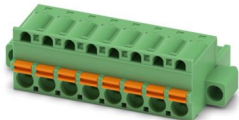
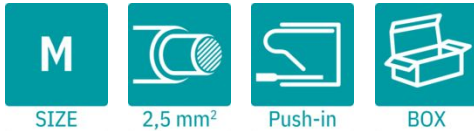
# FKC 2,5/ 8-STF-5,08 EX - PCB connector



1796050

<https://www.phoenixcontact.com/nl/products/1796050>

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PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, contact surface: Sn, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: FKC 2,5/..-STF-EX, 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 EX, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

## Your advantages

- Satisfies the more stringent safety requirements of “Ex eb” protection according to IEC 60079-7 for potentially explosive areas
- 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
- Can be combined with the MSTB 2,5 range
- Screwable flange for superior mechanical stability

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1796050                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AACFBF                         |
| Product key                          | AACFBF                         |
| GTIN                                 | 4046356635363                  |
| Weight per piece (including packing) | 15,092 g                       |
| Weight per piece (excluding packing) | 15,09 g                        |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product family        | FKC 2,5/..-STF-EX     |
| Product line          | COMBICON Connectors M |
| Type                  | Standard              |
| Number of positions   | 8                     |
| Pitch                 | 5.08 mm               |
| Number of connections | 8                     |
| Number of rows        | 1                     |
| Number of potentials  | 8                     |
| Mounting type         | Screw flange          |

### Electrical properties

#### Properties

|                                         |                          |
|-----------------------------------------|--------------------------|
| Nominal current $I_N$                   | 12 A                     |
| Nominal voltage $U_N$                   | 176 V                    |
| Rated current / conductor cross-section | 12 A/2.5 mm <sup>2</sup> |

### Ex data

#### Ex approval

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Identification                  | 0344 <sup>Ex</sup> II 2GD / Ex eb IIC Gb |
| EU-type examination certificate | KEMA 10ATEX0196 U                        |
| IECEx certificate               | IECEx KEM 10.0093U                       |

### Connection data

#### Connection technology

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

#### Interlock

|                   |                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------|
| Locking type      | Screw locking mechanism                                                                          |
| Mounting type     | Screw flange                                                                                     |
| Tightening torque | 0.25 Nm ... 0.3 Nm (In extreme climatic conditions, we recommend the minimum tightening torque.) |

#### 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> |

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|                                                                                           |                                              |
|-------------------------------------------------------------------------------------------|----------------------------------------------|
| 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> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Stripping length                                                                          | 10 mm                                        |

## Specifications for ferrules without insulating collar

|                           |                    |
|---------------------------|--------------------|
| recommended crimping tool | 1212034 CRIMPFOX 6 |
|---------------------------|--------------------|

## Specifications for ferrules with insulating collar

|                           |                    |
|---------------------------|--------------------|
| recommended crimping tool | 1212034 CRIMPFOX 6 |
|---------------------------|--------------------|

## 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 µm - 8 µm Sn)                                                             |
| Metal surface contact area (top layer)   | Tin (4 µm - 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           |
| Flammability rating according to UL 94 | V0            |

## Dimensions

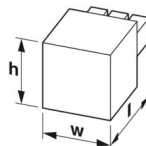
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## Dimensional drawing



|            |          |
|------------|----------|
| Pitch      | 5.08 mm  |
| Width [w]  | 50.74 mm |
| Height [h] | 15 mm    |
| Length [l] | 25.73 mm |

## Mounting

### Flange

|                   |                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------|
| Tightening torque | 0.25 Nm ... 0.3 Nm (In extreme climatic conditions, we recommend the minimum tightening torque.) |
|-------------------|--------------------------------------------------------------------------------------------------|

## 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

|                                       |               |
|---------------------------------------|---------------|
| Relative humidity (storage/transport) | 30 % ... 70 % |
|---------------------------------------|---------------|

## Packaging specifications

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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1796050>

|                                                                                                                                 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>ATEX</b><br>Approval ID: KEMA 10ATEX0196 U |                       |                       |                   |                             |
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                           |                       |                       |                   |                             |
|                                                                                                                                 | 176 V                 | 12 A                  | -                 | 0.2 - 2.5                   |

|                                                                                                                                   |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>IECEx</b><br>Approval ID: IECEx KEM 10.0093U |                       |                       |                   |                             |
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 176 V                 | 12 A                  | -                 | 0.2 - 2.5                   |

|                                                                                                                                 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>CCC</b><br>Approval ID: 2021122313114375 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002638 |
|-----------|----------|

### UNSPSC

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

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

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