

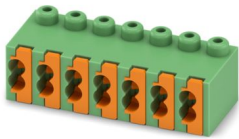
# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

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: 0.5 mm<sup>2</sup>, color: green, nominal current: 4 A, rated voltage (III/2): 250 V, contact surface: Sn, contact connection type: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 14, product range: FK-MPT 0,5/..-ST, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,0, locking: without, mounting method: 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
- Potentials can be easily looped through – ideal for BUS applications
- Small component size for applications where space is at a premium

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1913976             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AA01                |
| Product key                          | AAAFBA              |
| Catalog page                         | Page 403 (C-1-2013) |
| GTIN                                 | 4017918176884       |
| Weight per piece (including packing) | 2.718 g             |
| Weight per piece (excluding packing) | 2.34 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | IN                  |

# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

## Technical data

### Product properties

|                       |                        |
|-----------------------|------------------------|
| Product type          | PCB connector          |
| Product family        | FK-MPT 0,5/...-ST      |
| Product line          | COMBICON Connectors XS |
| Type                  | Plug for pin strip     |
| Number of positions   | 7                      |
| Pitch                 | 3.5 mm                 |
| Number of connections | 14                     |
| Number of rows        | 1                      |
| Number of potentials  | 7                      |
| Mounting flange       | without                |

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 4 A    |
| Nominal voltage $U_N$       | 250 V  |
| Rated voltage (III/3)       | 160 V  |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2)       | 250 V  |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2)        | 250 V  |
| Rated surge voltage (II/2)  | 2.5 kV |

### Connection data

#### Interlock

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

#### Conductor connection

|                                    |  |
|------------------------------------|--|
| Connection method                  | Push-in spring connection                    |
| Conductor/PCB connection direction | 0 °  |
| Conductor cross section rigid      | 0.12 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> |
| Conductor cross section AWG        | 26 ... 20                                    |
| Stripping length                   | 6.5 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 (5 - 7 µm Sn)  |

# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

|   |                      |
|---|----------------------|
| Metal surface terminal point (middle layer) | Nickel (2 - 3 µm Ni) |
| Metal surface contact area (top layer)      | Tin (5 - 7 µm Sn)    |
| Metal surface contact area (middle layer)   | Nickel (2 - 3 µm Ni) |

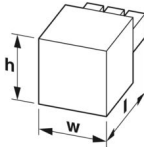
## Material data - housing

|  |              |
|--|--------------|
| Color (Housing)                        | green (6021) |
| Insulating material                    | PBT          |
| Insulating material group              | IIIa         |
| CTI according to IEC 60112             | 225          |
| Flammability rating according to UL 94 | V0           |

## Material data – actuating element

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

## Dimensions

|                     |   |
|---------------------|---|
| Dimensional drawing |  |
| Pitch               | 3.5 mm  |
| Width [w]           | 25 mm   |
| Height [h]          | 8.5 mm  |
| Length [l]          | 9.5 mm  |

## 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                              | IIIa                |
| Comparative tracking index (IEC 60112)                 | CTI 225             |
| 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)                      | 2.5 mm              |
| Rated insulation voltage (III/2)                       | 250 V               |
| Rated surge voltage (III/2)                            | 2.5 kV              |

# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

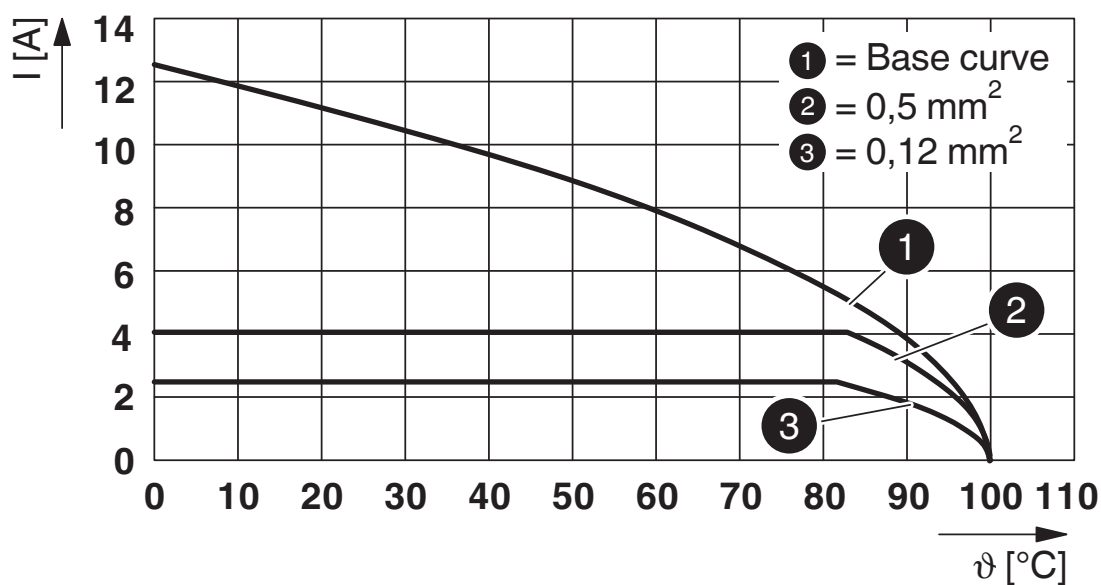
|  |        |
|--|--------|
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2)                      | 2.5 mm |
| Rated insulation voltage (II/2)                        | 250 V  |
| Rated surge voltage (II/2)                             | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2)  | 1.5 mm |
| minimum creepage distance (II/2)                       | 2.5 mm |

## Packaging specifications

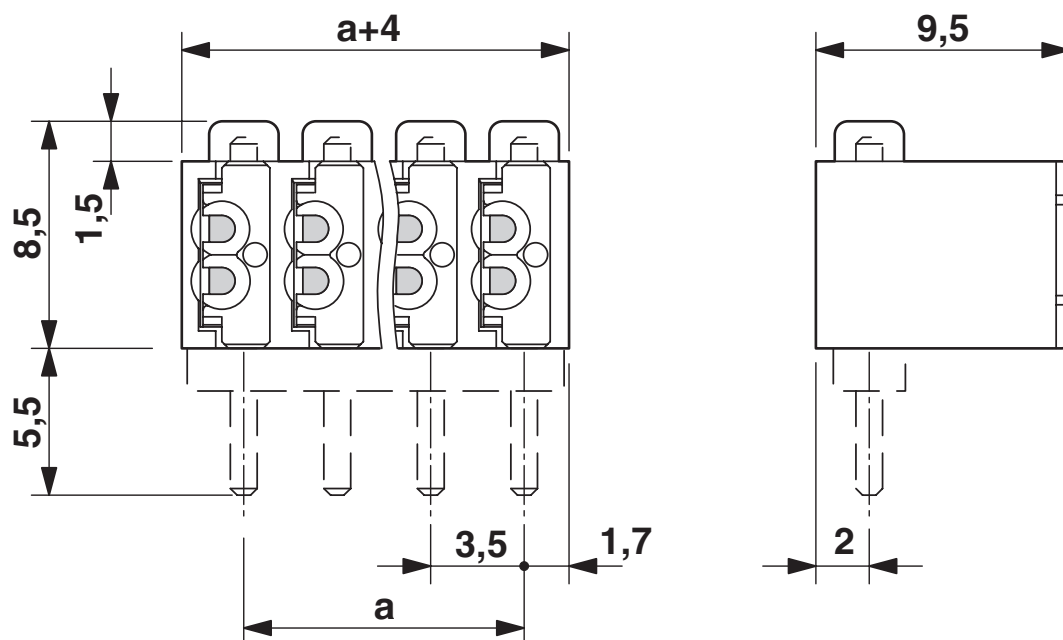
|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

## Drawings

Diagram



Dimensional drawing



# FK-MPT 0,5/ 7-ST-3,5 - PCB connector





1913976

<https://www.phoenixcontact.com/us/products/1913976>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1913976>

|  <b>cULus Recognized</b><br>Approval ID: E60425-19991118 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B   | 300 V                 | 4 A                   | 28 - 20           | -                           |
| Use group D   | 300 V                 | 4 A                   | 28 - 20           | -                           |

|  <b>VDE approval of drawings</b><br>Approval ID: 40055514 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 250 V                 | 4 A                   | -                 | 0.2 - 0.5                   |

# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# FK-MPT 0,5/ 7-ST-3,5 - PCB connector



1913976

<https://www.phoenixcontact.com/us/products/1913976>

## 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](mailto:info@phoenixcon.com)