

Plug - FK-MC 0,5/ 8-ST-2,5 BK BDWH:+ - 1781104

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PCB connector, nominal current: 4 A, number of positions: 8, pitch: 2.5 mm, connection method: Push-in spring connection, color: green




The figure shows a 10-position version of the product

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Quick and convenient testing using integrated test option



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 50 pc |
| GTIN |  4 046356 545631 |
| GTIN | 4046356545631 |

Technical data

Item properties

| | |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system | MICRO COMBICON - FK-MC 0,5 |
| Type of contact | Female connector |
| Range of articles | FK-MC 0,5/...-ST |
| Pitch | 2.5 mm |
| Number of positions | 8 |
| Connection method | Push-in spring connection |
| Locking | without |
| Number of levels | 1 |

Electrical parameters

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Technical data

Electrical parameters

| | |
|----------------------------------|--------|
| Rated current | 4 A |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

Connection capacity

| | |
|---|--|
| Conductor cross section solid | 0.14 mm ² ... 0.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 0.5 mm ² |
| Conductor cross section AWG / kcmil | 26 ... 20 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 0.5 mm ² |
| Cylindrical gauge a x b / diameter | - / 1.4 mm |
| Stripping length | 8 mm |

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

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

| | |
|--|-----|
| Insulating material | POM |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | HB |

Dimensions for the product

| | |
|-----------------------------|---|
| Caption | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [l] | 19.05 mm |
| Width [w] | 20.6 mm |
| Height [h] | 11.75 mm |
| Pitch | 2.5 mm |
| Height (without solder pin) | 11.75 mm |
| Dimension a | 17.5 mm |

Packaging information

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Technical data

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |

General product information

| | |
|--------------|--|
| Type of note | Notes on operation |
| Note | 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. |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C |

Termination and connection method

| | |
|--|---------------------|
| Test – repeated connection and release | IEC 60999-1:1999-11 |
|--|---------------------|

Pull-out test

| | |
|--|---|
| Conductor cross section / conductor type / tensile force | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 0.5 mm ² / solid / > 20 N |
| | 0.5 mm ² / flexible / > 20 N |

Air clearances and creepage distances

| | |
|----------------------------------|---|
| Specification | IEC 60664-1:1992-10 + A1:2000-02 + A2:2002-05 |
| Insulating material group | I |
| Voltage | 100 V |
| Rated insulation voltage (III/3) | 100 V |
| Rated insulation voltage (III/2) | 160 V |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (III/3) | 1.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2) | 2.5 kV |

Temperature cycles

| | |
|--------------------------------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Test current (minimum cross section) | 4 A |
| Test current (maximum cross section) | 6 A |
| Temperature cycles | 192 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Approvals

Approvals

Approvals

CCA / IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

Ex Approvals

Approval details

| | |
|----------------------------|----------------|
| CCA | CCA/ DE1 34250 |
| Nominal voltage UN | 100 V |
| Nominal current IN | 4 A |
| mm ² /AWG/kcmil | 0.2-5 |

| | | | |
|----------------------------|-------|---|----------------|
| IECEE CB Scheme | | http://www.iecee.org/ | DE1-56068-B1B2 |
| Nominal voltage UN | 100 V | | |
| Nominal current IN | 4 A | | |
| mm ² /AWG/kcmil | 0.2-5 | | |

| | | | |
|---|-------|---|----------|
| VDE Gutachten mit Fertigungsüberwachung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40013394 |
| Nominal voltage UN | 100 V | | |
| Nominal current IN | 4 A | | |
| mm ² /AWG/kcmil | 0.2-5 | | |

| | | |
|-----|--|---------|
| EAC | | B.01742 |
|-----|--|---------|

| | | | |
|--------------------|-------|---|-----------------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19930913 |
| Nominal voltage UN | 125 V | | |

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Approvals

| | |
|--------------------------------|-------|
| | B |
| Nominal current I _N | 4 A |
| mm ² /AWG/kcmil | 28-20 |

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