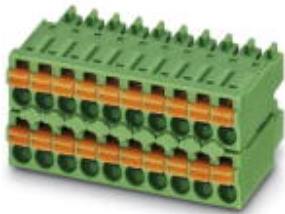


# Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

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PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 11, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

The figure shows a 10-pos. version with 20 contacts

## 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



## Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| GTIN                                 |               |
| GTIN                                 | 4046356295192 |
| Weight per Piece (excluding packing) | 12.800 g      |
| Custom tariff number                 | 85366990      |
| Country of origin                    | Germany       |

## Technical data

### Item properties

|                           |                                 |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system            | MINI COMBICON                   |
| Type of contact           | Female connector                |
| Range of articles         | FMCD 1,5/..-ST                  |

# Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

## Technical data

### Item properties

|                       |                           |
|-----------------------|---------------------------|
| Pitch                 | 3.5 mm                    |
| Number of positions   | 11                        |
| Connection method     | Push-in spring connection |
| Locking               | without                   |
| Number of levels      | 2                         |
| Number of connections | 22                        |
| Number of potentials  | 22                        |

### Electrical parameters

|              |       |
|--------------|-------|
| Nom. voltage | 160 V |
|--------------|-------|

### Connection capacity

|   |   |
|---|---|
| Connection method   | Push-in spring connection                     |
| pluggable   | Yes   |
| Conductor cross section solid   | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross section AWG / kcmil                                   | 24 ... 16                                     |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| Stripping length  | 10 mm   |

### Specifications for ferrules

|  |  |
|--|--|
| Recommended crimping pliers                                  | 1212034 CRIMPFOX 6   |
| Ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.25 mm <sup>2</sup> ; Length: 7 mm           |
|  | Cross section: 0.34 mm <sup>2</sup> ; Length: 7 mm           |
|  | Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm  |
|  | Cross section: 0.75 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |
|  | Cross section: 1 mm <sup>2</sup> ; Length: 8 mm ... 10 mm    |
|  | Cross section: 1.5 mm <sup>2</sup> ; Length: 10 mm           |
| Recommended crimping pliers                                  | 1212034 CRIMPFOX 6   |
| Ferrules with insulating collar, according to DIN 46228-4    | Cross section: 0.14 mm <sup>2</sup> ; Length: 8 mm           |
|  | Cross section: 0.25 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |
|  | Cross section: 0.34 mm <sup>2</sup> ; Length: 8 mm ... 10 mm |
|  | Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm  |
|  | Cross section: 0.75 mm <sup>2</sup> ; Length: 10 mm          |

### Material data - contact

|                  |   |
|------------------|---|
| Note             | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Cu alloy  |

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## Technical data

### Material data - contact

|  |                    |
|--|--------------------|
| 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                    | PBT |
| CTI according to IEC 60112             | 600 |
| Flammability rating according to UL 94 | V0  |

### Dimensions for the product

|                             |          |
|-----------------------------|----------|
| Length [ l ]                | 22.9 mm  |
| Width [ w ]                 | 39.25 mm |
| Height [ h ]                | 16 mm    |
| Pitch                       | 3.5 mm   |
| Height (without solder pin) | 16 mm    |
| Dimension a                 | 35 mm    |

### Packaging information

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

### Air clearances and creepage distances

|                                  |        |
|----------------------------------|--------|
| Rated insulation voltage (III/3) | 160 V  |
| Rated insulation voltage (III/2) | 160 V  |
| Rated insulation voltage (II/2)  | 320 V  |
| Rated surge voltage (III/3)      | 2.5 kV |
| Rated surge voltage (III/2)      | 2.5 kV |
| Rated surge voltage (II/2)       | 2.5 kV |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|

# Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

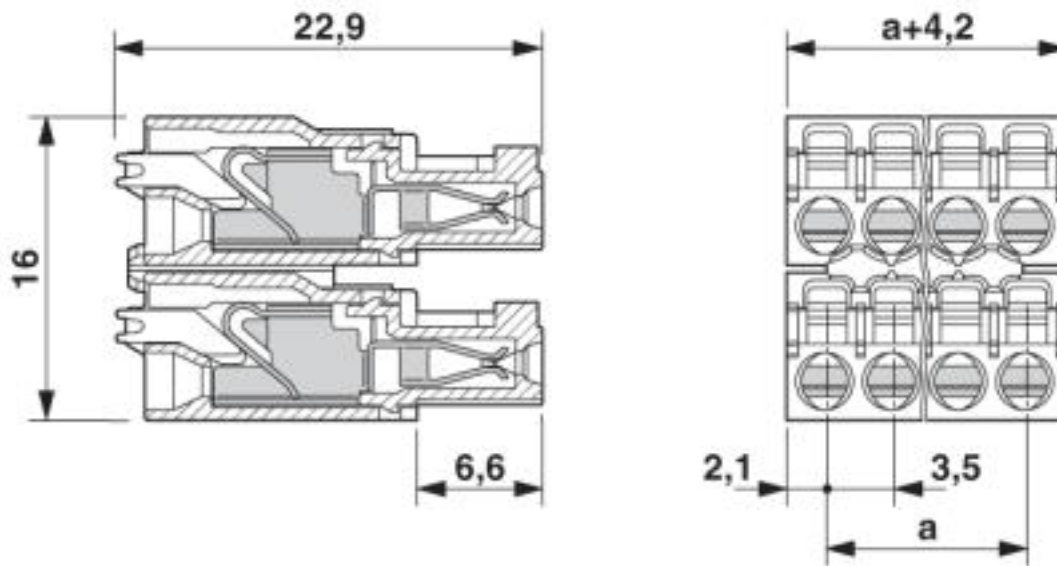
## Technical data

### Environmental Product Compliance

|  |  |
|--|--|
|  | No hazardous substances above threshold values |
|--|--|

## Drawings

Dimensional drawing



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

# Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC002638 |
|----------|----------|

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |
| UNSPSC 18.0   | 39121409 |
| UNSPSC 19.0   | 39121409 |
| UNSPSC 20.0   | 39121409 |
| UNSPSC 21.0   | 39121409 |

## Approvals


### Approvals


#### Approvals

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

#### Ex Approvals

### Approval details


|                            |   |   |                |
|----------------------------|---|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60987-B1B2 |
| Nominal voltage UN         | 160 V   |   |                |
| Nominal current IN         | 8 A   |   |                |
| mm <sup>2</sup> /AWG/kcmil | 0.2-1.5   |   |                |


|   |   |   |          |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40011723 |
| Nominal voltage UN                      | 160 V   |   |          |

## Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

### Approvals

|                                |         |
|--------------------------------|---------|
| Nominal current I <sub>N</sub> | 8 A     |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5 |

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

|                                |   |   |                 |
|--------------------------------|---|---|-----------------|
| cULus Recognized               |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-19920306 |
| Nominal voltage U <sub>N</sub> | B   |   |                 |
| Nominal current I <sub>N</sub> | 150 V   |   |                 |
| Nominal current I <sub>N</sub> | 8 A   |   |                 |
| mm <sup>2</sup> /AWG/kcmil     | 24-16   |   |                 |

### Accessories

#### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 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

#### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

#### Additional products

## Printed-circuit board connector - FMCD 1,5/11-ST-3,5 - 1738898

### Accessories

#### Feed-through header - MCDN 1,5/11-G1-3,5 P14THR - 1954003



PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 11, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [Downloads](#)".

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#### Feed-through header - MCDN 1,5/11-G1-3,5 P26THR - 1953800



PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 11, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, The pin length is 2.6 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: ["Downloads"](#)

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#### Printed-circuit board connector - MCDNV 1,5/11-G1-3,5 P14THR - 1953101



PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 11, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [Downloads](#)".

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#### Printed-circuit board connector - MCDNV 1,5/11-G1-3,5 P26THR - 1952872



PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 11, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, The pin length is 26 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [http: "Downloads"](http://).