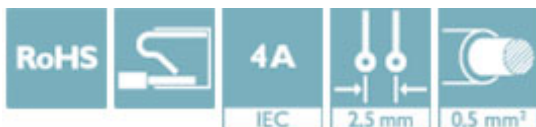



# Printed-circuit board connector - FK-MC 0,5/12-ST-2,5 BK - 1755279

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Plug component, nominal current: 4 A, number of positions: 12, pitch: 2.5 mm, connection method: Push-in spring connection, Color: black, Contact surface: Tin



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 50 STK  |
| GTIN                                 | <br>4 046356 330862 |
| GTIN                                 | 4046356330862   |
| Weight per Piece (excluding packing) | 6.845 g   |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |
| Note                                 | Made to Order (non-returnable)  |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Length      | 19.05 mm |
| Pitch       | 2.5 mm   |
| Dimension a | 27.50 mm |

### General

|                                  |                     |
|----------------------------------|---------------------|
| Range of articles                | FK-MC 0,5/...-ST    |
| Connection in acc. with standard | EN-VDE              |
| Nominal current $I_N$            | 4 A                 |
| Nominal voltage $U_N$            | 100 V               |
| Nominal cross section            | 0.5 mm <sup>2</sup> |
| Number of positions              | 12                  |

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.   | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 0.5 mm <sup>2</sup>  |

# Printed-circuit board connector - FK-MC 0,5/12-ST-2,5 BK - 1755279

## Technical data

### Connection data

|                                  |    |
|----------------------------------|----|
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 20 |
| Minimum AWG according to UL/CUL  | 28 |
| Maximum AWG according to UL/CUL  | 20 |

### Standards and Regulations

|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|                                  | CUL    |

### Ambient conditions

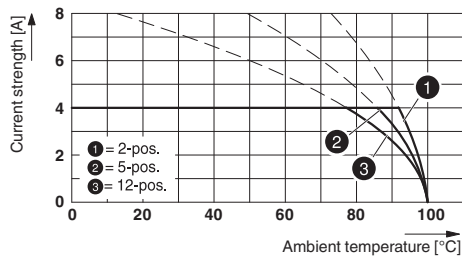
|   |  |
|---|--|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                         |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                         |
| Ambient temperature (operation)         | -40 °C (dependent on the derating curve) |

### Environmental Product Compliance

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

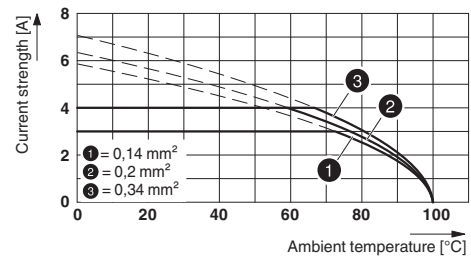
## Drawings

Diagram



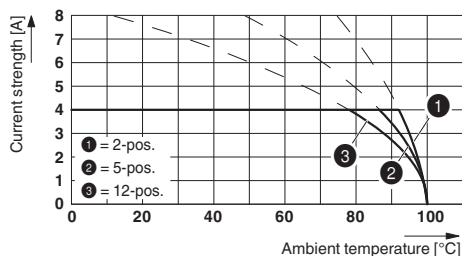
Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5

Diagram



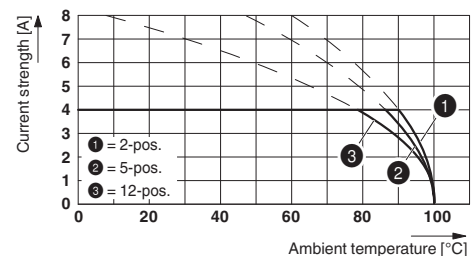
Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5

Diagram



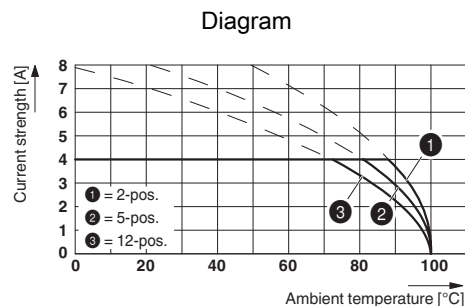
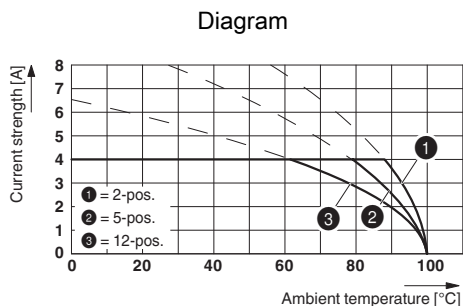
Type: FK-MC 0,5/...-ST-2,5 with MCV 0,5/...-G-2,5 THT

Diagram



Type: FK-MC 0,5/...-ST-2,5 with MC 0,5/...-G-2,5 THT

# Printed-circuit board connector - FK-MC 0,5/12-ST-2,5 BK - 1755279



Type: FK-MC 0,5/...-ST-2,5 with MCD 0,5/...-G1-2,5

Type: FK-MC 0,5/...-ST-2,5 with MCDV 0,5/...-G1-2,5

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| 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 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

### Approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECCE CB Scheme / CCA / EAC / cULus Recognized

### Ex Approvals

# Printed-circuit board connector - FK-MC 0,5/12-ST-2,5 BK - 1755279

## Approvals

### Approval details

|                                |  |   |              |
|--------------------------------|--|---|--------------|
| UL 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> | FILE E 60425 |
|                                |  |   | B            |
| mm <sup>2</sup> /AWG/kcmil     |  |   | 28-20        |
| Nominal current I <sub>N</sub> |  |   | 4 A          |
| Nominal voltage U <sub>N</sub> |  |   | 125 V        |

|   |  |   |          |
|---|--|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a> | 40013394 |
|   |  |   |          |
| mm <sup>2</sup> /AWG/kcmil              |  |   | 0.2-0.5  |
| Nominal current I <sub>N</sub>          |  |   | 4 A      |
| Nominal voltage U <sub>N</sub>          |  |   | 100 V    |

|                                |  |   |              |
|--------------------------------|--|---|--------------|
| cUL 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> | FILE E 60425 |
|                                |  |   | B            |
| mm <sup>2</sup> /AWG/kcmil     |  |   | 28-20        |
| Nominal current I <sub>N</sub> |  |   | 4 A          |
| Nominal voltage U <sub>N</sub> |  |   | 125 V        |


|                                |  |   |                |
|--------------------------------|--|---|----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56068-B1B2 |
|                                |  |   |                |
| mm <sup>2</sup> /AWG/kcmil     |  |   | 0.2-0.5        |
| Nominal current I <sub>N</sub> |  |   | 4 A            |
| Nominal voltage U <sub>N</sub> |  |   | 100 V          |

|                                |  |  |                |
|--------------------------------|--|--|----------------|
| CCA                            |  |  | CCA/ DE1 34250 |
|                                |  |  |                |
| mm <sup>2</sup> /AWG/kcmil     |  |  | 0.2-0.5        |
| Nominal current I <sub>N</sub> |  |  | 4 A            |
| Nominal voltage U <sub>N</sub> |  |  | 100 V          |

## Printed-circuit board connector - FK-MC 0,5/12-ST-2,5 BK - 1755279

### Approvals

|     |   |         |
|-----|---|---------|
| 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> |
|------------------|---|---|