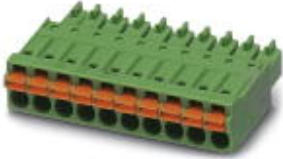


## Printed-circuit board connector - FMC 1,5/16-ST-3,81 - 1748118

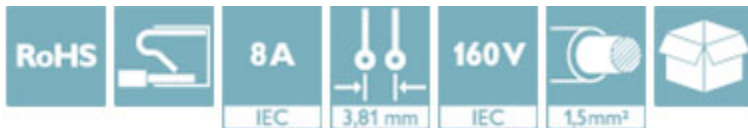
Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin



### Why buy this product

- ✓ 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 STK    |
| Minimum order quantity               | 50 STK   |
| Weight per Piece (excluding packing) | 9.200 g  |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Length      | 21.9 mm  |
| Height      | 7.8 mm   |
| Width       | 61.45 mm |
| Pitch       | 3.81 mm  |
| Dimension a | 57.15 mm |

#### General

|                   |                  |
|-------------------|------------------|
| Range of articles | FMC 1,5/...-ST   |
| Type of contact   | Female connector |

# Printed-circuit board connector - FMC 1,5/16-ST-3,81 - 1748118

## Technical data

### General

|  |                           |
|--|---------------------------|
| Number of positions                    | 16                        |
| Connection method                      | Push-in spring connection |
| Insulating material group              | I                         |
| Rated surge voltage (III/3)            | 2.5 kV                    |
| Rated surge voltage (III/2)            | 2.5 kV                    |
| Rated surge voltage (II/2)             | 2.5 kV                    |
| Rated voltage (III/3)                  | 160 V                     |
| Rated voltage (III/2)                  | 160 V                     |
| Rated voltage (II/2)                   | 320 V                     |
| Connection in acc. with standard       | EN-VDE                    |
| Nominal current $I_N$                  | 8 A                       |
| Nominal cross section                  | 1.5 mm <sup>2</sup>       |
| Maximum load current                   | 8 A                       |
| Insulating material                    | PA                        |
| Flammability rating according to UL 94 | V0                        |
| Internal cylindrical gage              | A1                        |
| Stripping length                       | 10 mm                     |

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 1.5 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. | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 0.75 mm <sup>2</sup> |
| Conductor cross section AWG min.   | 24                   |
| Conductor cross section AWG max.   | 16                   |
| Minimum AWG according to UL/CUL  | 24                   |
| Maximum AWG according to UL/CUL  | 16                   |

### Standards and Regulations

|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

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

# Printed-circuit board connector - FMC 1,5/16-ST-3,81 - 1748118

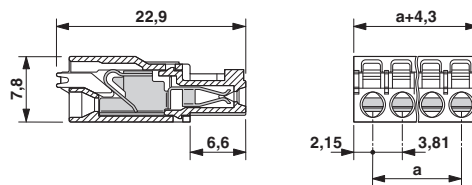
## Technical data

### Environmental Product Compliance

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

## Drawings

Dimensional drawing



## Approvals

### Approvals

#### Approvals

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


#### Ex Approvals

### Approval details

|  |         |
|--|---------|
| 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> 40011723 |         |
| mm <sup>2</sup> /AWG/kcmil   | 0.2-1.5 |
| Nominal current I <sub>N</sub>   | 8 A     |
| Nominal voltage U <sub>N</sub>   | 160 V   |

## Printed-circuit board connector - FMC 1,5/16-ST-3,81 - 1748118

### Approvals

|   |         |
|---|---------|
| IECEE CB Scheme  <a href="http://www.iecee.org/DE1-56063-B1B2">http://www.iecee.org/DE1-56063-B1B2</a> |         |
| mm <sup>2</sup> /AWG/kcmil  | 0.2-1.5 |
| Nominal current I <sub>N</sub>  | 8 A     |
| Nominal voltage U <sub>N</sub>  | 160 V   |

|             |
|-------------|
| 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 |       |       |
|  | B     | C     |
| mm <sup>2</sup> /AWG/kcmil   | 24-16 | 24-16 |
| Nominal current I <sub>N</sub>   | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub>   | 300 V | 50 V  |