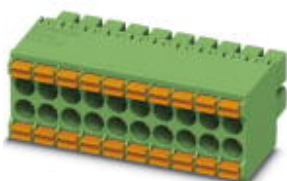


## Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

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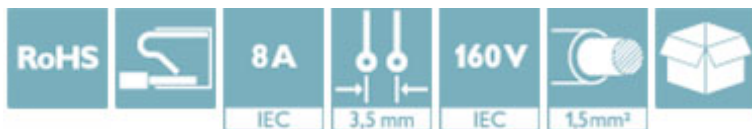
Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 14 with 28 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin



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

### 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
- ✓ Optimized for tight installation situations: operation and conductor connection from one direction



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| GTIN                                 | <br>4 046356 594479 |
| GTIN                                 | 4046356594479                                                                                           |
| Weight per Piece (excluding packing) | 14.680 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Length      | 22.65 mm |
| Height      | 13.25 mm |
| Width       | 49.8 mm  |
| Pitch       | 3.5 mm   |
| Dimension a | 45.5 mm  |

#### General

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

# Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

## Technical data

### General

|                                        |                           |
|----------------------------------------|---------------------------|
| Number of positions                    | 14                        |
| 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)                   | 250 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                                            | 16                   |
| Maximum AWG according to UL/CUL                                            | 24                   |

### Standards and Regulations

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

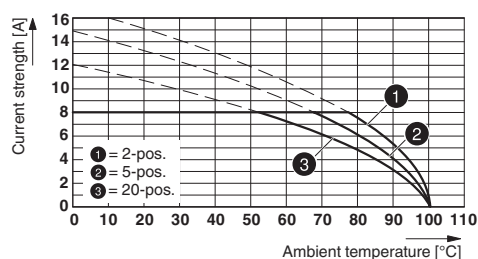
### Environmental Product Compliance

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

## Drawings

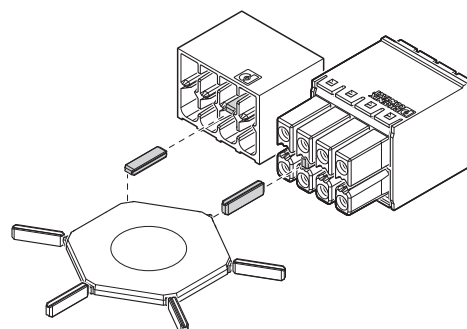
## Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

Diagram



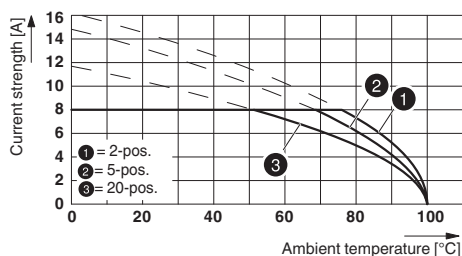
Typ: DFMC 1,5/...-ST-3,5 with DMCV 1,5/...-G1-3,5 P20 THR

Schematic diagram



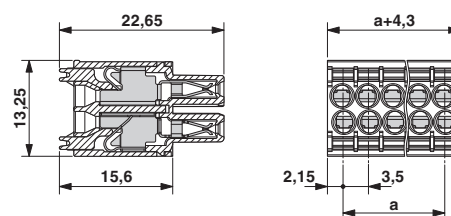
Use of the CP-DMC... coding profile

Diagram



Typ: DFMC 1,5/...-ST-3,5 with DMC 1,5/...-G1-3,5 P20 THR

Dimensional drawing



### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27141190 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

#### UNSPSC

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

# Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121409 |
| UNSPSC 13.2  | 39121409 |

## Approvals

### Approvals

#### Approvals

VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized / EAC

#### Ex Approvals

### Approval details

|                                            |                                                                                     |                                                                                                                                                                                                              |          |
|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40038423 |
| 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                                                                               |                                                                                                                                                                                                              |          |

|                                |                                                                                     |                                                           |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56070_B1_B2 |
| Nominal current I <sub>N</sub> | 8 A                                                                                 |                                                           |                 |
| Nominal voltage U <sub>N</sub> | 160 V                                                                               |                                                           |                 |

|                                |                                                                                     |                                                                                                                                                       |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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     | 16-24                                                                               | 16-24                                                                                                                                                 |                 |
| Nominal current I <sub>N</sub> | 8 A                                                                                 | 8 A                                                                                                                                                   |                 |
| Nominal voltage U <sub>N</sub> | 150 V                                                                               | 50 V                                                                                                                                                  |                 |

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

## Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

### Accessories

#### Accessories

##### Coding element

Coding profile - CP-DMC 1,5 NAT - 1790647



Coding profile, for insertion between the coding ribs of the connector and the header following the reflow soldering process, insulating material, color: natural

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### 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

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### 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

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### Additional products

Printed-circuit board connector - DMC 1,5/14-G1-3,5 P20THR - 1786950



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 14, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering

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Printed-circuit board connector - DMCV 1,5/14-G1-3,5 P20THR - 1787328



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 14, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering

## Printed-circuit board connector - DFMC 1,5/14-ST-3,5 - 1790221

### Accessories

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#### Printed-circuit board connector - DMC 1,5/14-G1-3,5 P20THR R72 - 1706054



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 14, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering

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#### Printed-circuit board connector - DMCV 1,5/14-G1-3,5 P20THR R72 - 1818698



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 14, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering