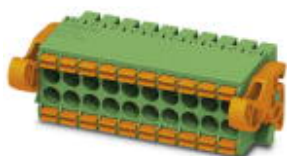


## Printed-circuit board connector - DFMC 1,5/ 4-ST-3,5-LR - 1790506

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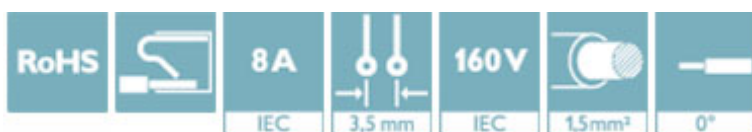
Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 4 with 8 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin



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
- ✓ Automatic locking and intuitive release through Lock and Release operating lever in contrasting color



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 50 STK                                                                               |
| GTIN         |  |
| GTIN         | 4046356594561                                                                        |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 27.75 mm |
| Width [ w ]  | 21 mm    |
| Height [ h ] | 13.25 mm |
| Pitch        | 3.5 mm   |
| Dimension a  | 10.5 mm  |

#### General

|                     |                           |
|---------------------|---------------------------|
| Range of articles   | DFMC 1,5/...-ST-LR        |
| Type of contact     | Female connector          |
| Number of positions | 4                         |
| Connection method   | Push-in spring connection |

# Printed-circuit board connector - DFMC 1,5/ 4-ST-3,5-LR - 1790506

## Technical data

### General

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

### Specifications for ferrules

|                                                              |                                                              |
|--------------------------------------------------------------|--------------------------------------------------------------|
| Ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.25 mm <sup>2</sup> ; Length: 5 mm ... 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           |
| 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: 8 mm ... 10 mm |

# Printed-circuit board connector - DFMC 1,5/ 4-ST-3,5-LR - 1790506

## Technical data

### Standards and Regulations

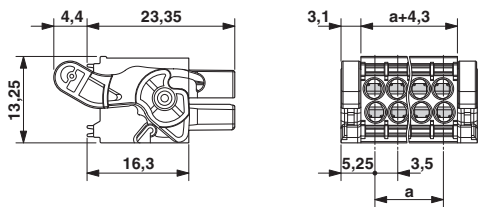
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

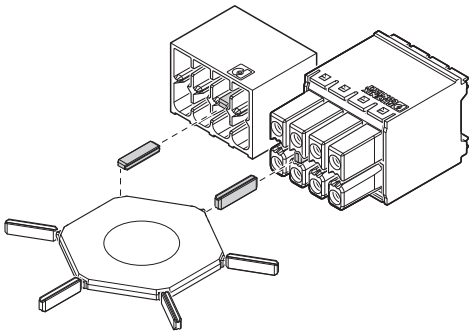
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Dimensional drawing

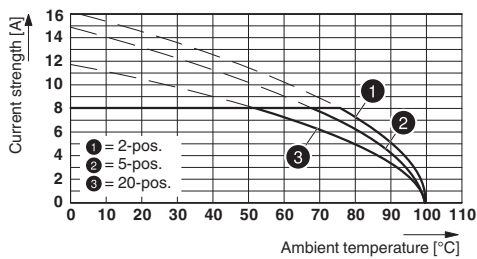


Schematic diagram



Use of the CP-DMC... coding profile

Diagram



Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1F-3,5-LR P20 THR

## Approvals

### Approvals

#### Approvals

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

## Printed-circuit board connector - DFMC 1,5/ 4-ST-3,5-LR - 1790506

### Approvals

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

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

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