# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

The figure shows a 10-position version of the product

## Product Features

- Generously dimensioned wiring space
- Low design height of the MC 1,5 plug range
- Plug-in direction parallel to the conductor axis
- Individual position coding by removing the coding tab and connecting the coding profile to the header

## Key Commercial Data

| | |
|---|---|
| Packing unit | 250 pc |
| GTIN | 4 017918 050191 |
| Weight per Piece (excluding packing) | 4.516 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Height | 11.1 mm |
| Width | 29.44 mm |
| Pitch | 3.81 mm |
| Dimension a | 15.24 mm |

### General

| | |
|---|---|
| Range of articles | MC 1,5/..-STF |
| 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 |

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## Technical data

### General

| | |
|---|---|
| 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 mm² |
| Maximum load current | 8 A (with 1.5 mm² conductor cross section) |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Internal cylindrical gage | A1 |
| Stripping length | 7 mm |
| Number of positions | 5 |
| Screw thread | M2 |
| Tightening torque, min | 0.22 Nm |
| Tightening torque max | 0.25 Nm |
| Note | CP-MSTB may only be used after reflow soldering. |

### Connection data

| | |
|---|---|
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 0.5 mm² |
| Conductor cross section AWG min. | 28 |
| Conductor cross section AWG max. | 16 |
| 2 conductors with same cross section, solid min. | 0.08 mm² |
| 2 conductors with same cross section, solid max. | 0.5 mm² |
| 2 conductors with same cross section, stranded min. | 0.08 mm² |
| 2 conductors with same cross section, stranded max. | 0.75 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 0.34 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm² |
| Minimum AWG according to UL/CUL | 30 |
| Maximum AWG according to UL/CUL | 14 |

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## Technical data

### Standards and Regulations

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

## 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 |

### ETIM

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

### UNSPSC

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

## Approvals

### Approvals

Approvals

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

Ex Approvals

Approvals submitted

### Approval details

# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

## Approvals

CSA

| | B | D |
|---|---|---|
| mm²/AWG/kcmil | 28-16 | 28-16 |
| Nominal current IN | 8 A | 8 A |
| Nominal voltage UN | 300 V | 300 V |

VDE Gutachten mit Fertigungsüberwachung

| | |
|---|---|
| mm²/AWG/kcmil | 0.2-1.5 |
| Nominal current IN | 8 A |
| Nominal voltage UN | 160 V |

IECEE CB Scheme

| | |
|---|---|
| mm²/AWG/kcmil | 0.2-1.5 |
| Nominal current IN | 8 A |
| Nominal voltage UN | 160 V |

CCA

| | |
|---|---|
| mm²/AWG/kcmil | 0.2-1.5 |
| Nominal current IN | 8 A |
| Nominal voltage UN | 160 V |

EAC

cULus Recognized

| | B | D |
|---|---|---|
| mm²/AWG/kcmil | 30-14 | 30-14 |
| Nominal current IN | 8 A | 8 A |
| Nominal voltage UN | 300 V | 300 V |

## Accessories

### Accessories

Bridge

# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

## Accessories

Insertion bridge - EBPL 2-3,81 - 1733495

Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

Insertion bridge - EBPL 3-3,81 - 1733505

Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

Insertion bridge - EBPL 4-3,81 - 1733518

Insertion bridge for plugs featuring a screw connection with a 3.81 mm pitch

### Cable housing

Cable housing - KGG-MC 1,5/ 5 - 1834372

Cable housing, Pitch: 0 mm, Number of positions: 5, Dimension a: 21.44 mm, Color: green

### Labeled terminal marker

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109

Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 3.81 mm, Lettering field: 3.81 x 2.8 mm

### Screwdriver tools

# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

## Accessories

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

Base strip - MCV 1,5/ 5-GF-3,81 P14 THR - 1707243

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under “Downloads”

Base strip - MCV 1,5/ 5-GF-3,81 P26 THR - 1707667

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under “Downloads”

Base strip - MCV 1,5/ 5-GF-3,81 P26 THRR56 - 1713376

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under “Downloads”

Printed-circuit board connector - MC 1,5/ 5-GF-3,81 P20 THRR56 - 1782051

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering

# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

## Accessories

Base strip - SMC 1,5/ 5-GF-3,81 - 1827457

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MC 1,5/ 5-GF-3,81 - 1827897

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MCD 1,5/ 5-GF-3,81 - 1830130

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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Base strip - MCDV 1,5/ 5-GF-3,81 - 1830282

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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Base strip - MCV 1,5/ 5-GF-3,81 - 1830622

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

## Accessories

Base strip - MCDV 1,5/ 5-G1F-3,81 - 1842791

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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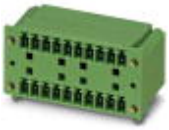
Base strip - MCD 1,5/ 5-G1F-3,81 - 1842940



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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Base strip - EMCV 1,5/ 5-GF-3,81 - 1879311

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

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Base strip - EMC 1,5/ 5-GF-3,81 - 1896970

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

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Base strip - MC 1,5/ 5-GF-3,81 THT - 1908907

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under “Downloads”

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# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

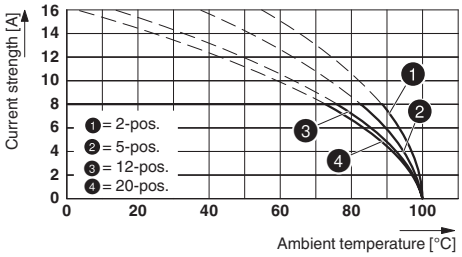
## Accessories

Base strip - MC 1,5/ 5-GF-3,81 THT-R56 - 1996566

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under “Downloads”

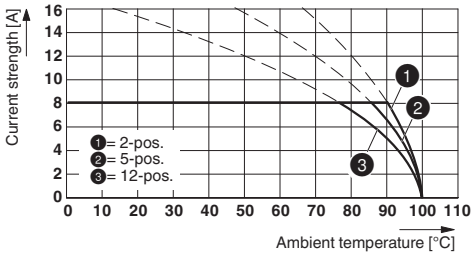
## Drawings

Diagram



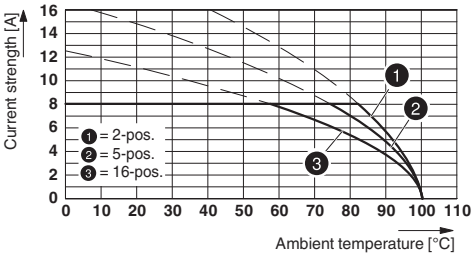

Type: MC 1,5/...-STF-3,81 with MCV 1,5/...-GF-3,81

Diagram



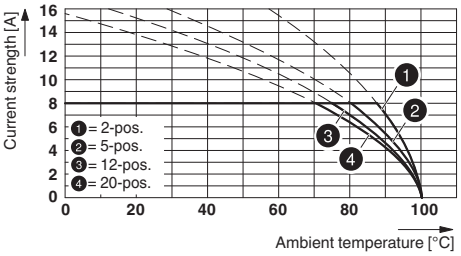

Type: MC 1,5/...-STF-3,81 with MCV 1,5/...-GF-3,81 P26 THR

Diagram



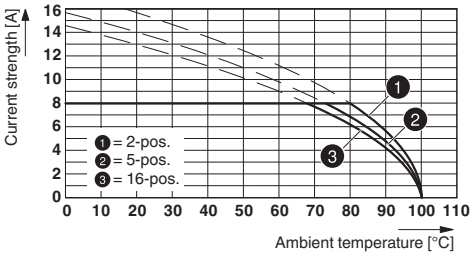

Type: MC 1,5/...-STF-3,81 with MCD 1,5/...-G1F-3,81

Diagram



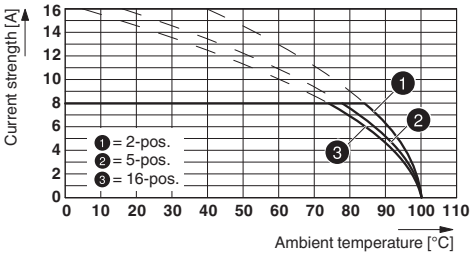

Type: MC 1,5/...-STF-3,81 with MC 1,5/...-GF-3,81

Diagram




Type: MC 1,5/...-STF-3,81 with DFK-MC 1,5/...-GF-3,81 (with flat plug)

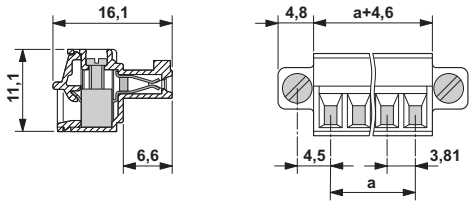
Diagram



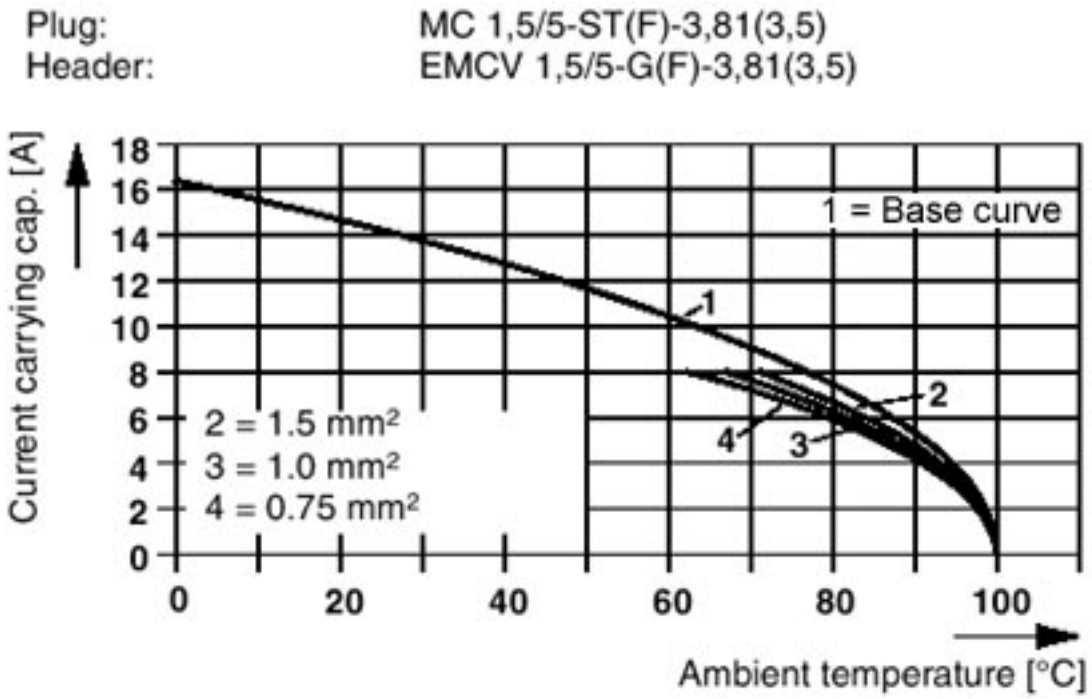

Type: MC 1,5/...-STF-3,81 with DFK-MC 1,5/...-GF-3,81 (with solder connection)

# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

Dimensional drawing

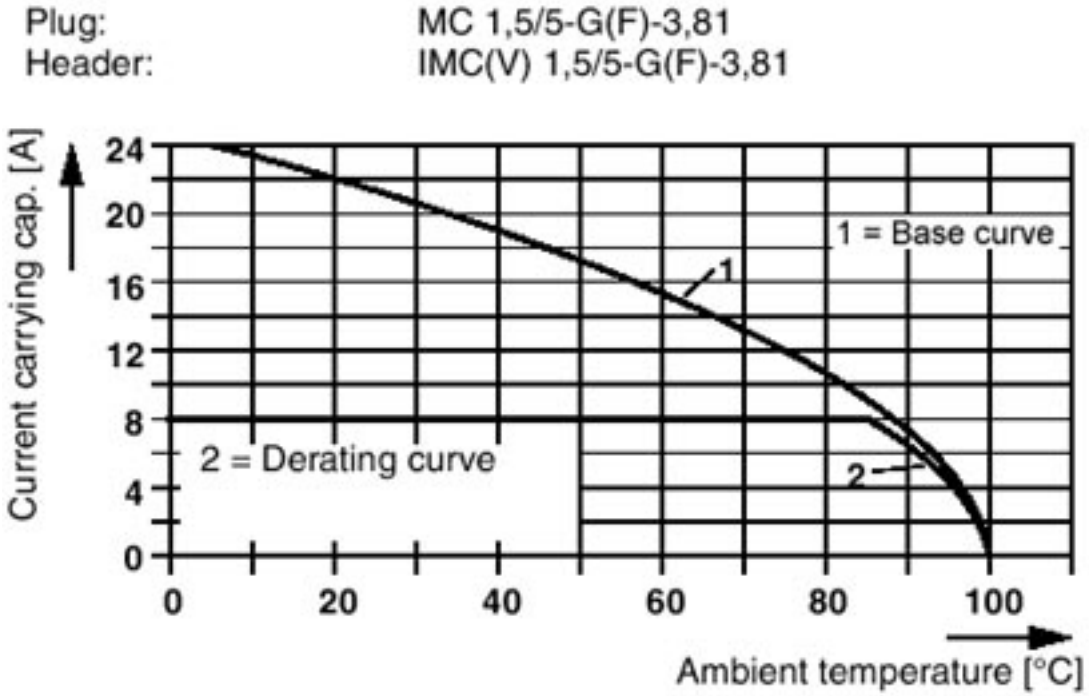



Diagram

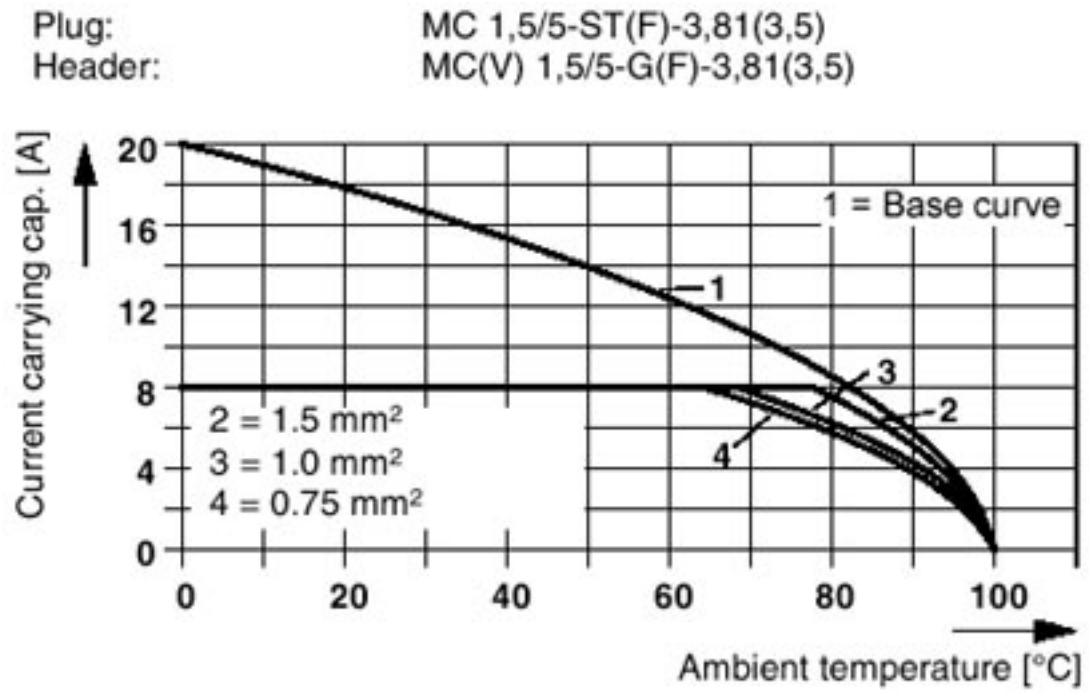


# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

Diagram




Diagram



# Printed-circuit board connector - MC 1,5/ 5-STF-3,81 - 1827732

Diagram