# Printed-circuit board connector - FRONT-MC 1,5/ 5-STF-3,81 - 1850880

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The figure shows a 10-position version of the product

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

## Product Features

- Generously dimensioned wiring space
- Screwdriver axis parallel to the conductor axis
- Pitch: 3.81 mm
- Plug with front screw connection
- Individual position coding by removing the coding tab and connecting the coding profile to the header

## Key commercial data

| | |
|---|---|
| **package_quantity** | 50 |
| **GTIN** | 4017918109912 |

## Technical data

### Dimensions

| | |
|---|---|
| **Pitch** | 3.81 mm |
| **Dimension a** | 15.24 mm |

### General

| | |
|---|---|
| **Range of articles** | FRONT-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 |
| **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) |

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## Technical data

### General

| | |
|---|---|
| **Insulating material** | PA |
| **Inflammability class according to UL 94** | V0 |
| **Internal cylindrical gage** | A1 |
| **Stripping length** | 9 mm |
| **Number of positions** | 5 |
| **Screw thread** | M2 |
| **Tightening torque, min** | 0.22 Nm |
| **Tightening torque max** | 0.25 Nm |

### Connection data

| | |
|---|---|
| **Conductor cross section solid min.** | 0.14 mm² |
| **Conductor cross section solid max.** | 1.5 mm² |
| **Conductor cross section stranded min.** | 0.14 mm² |
| **Conductor cross section stranded max.** | 1.5 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve min.** | 0.25 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve max.** | 1.5 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve min.** | 0.25 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve max.** | 0.5 mm² |
| **Conductor cross section AWG/kcmil min.** | 28 |
| **Conductor cross section AWG/kcmil max** | 16 |
| **2 conductors with same cross section, solid min.** | 0.14 mm² |
| **2 conductors with same cross section, solid max.** | 0.5 mm² |
| **2 conductors with same cross section, stranded min.** | 0.14 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** | 16 |

## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 4.0** | 272607xx |

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## classifications

### eCl@ss

| | |
|---|---|
| **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** | 27440402 |

### 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

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECEE CB Scheme / GOST / CCA / cULus Recognized /

### Approval details

**CSA**

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

**UL Recognized**

| **Usegroups** | **B** | **D** |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 30-16 | 30-16 |

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## approvals

**VDE Gutachten mit Fertigungsüberwachung**

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

**cUL Recognized**

| Usegroups | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 30-16 | 30-16 |

**IECEE CB Scheme**

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

**GOST**

**CCA**

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

**cULus Recognized**

## accessories

**Screwdriver tools**

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## accessories

SZS 0,4X2,5 VDE - 1205037



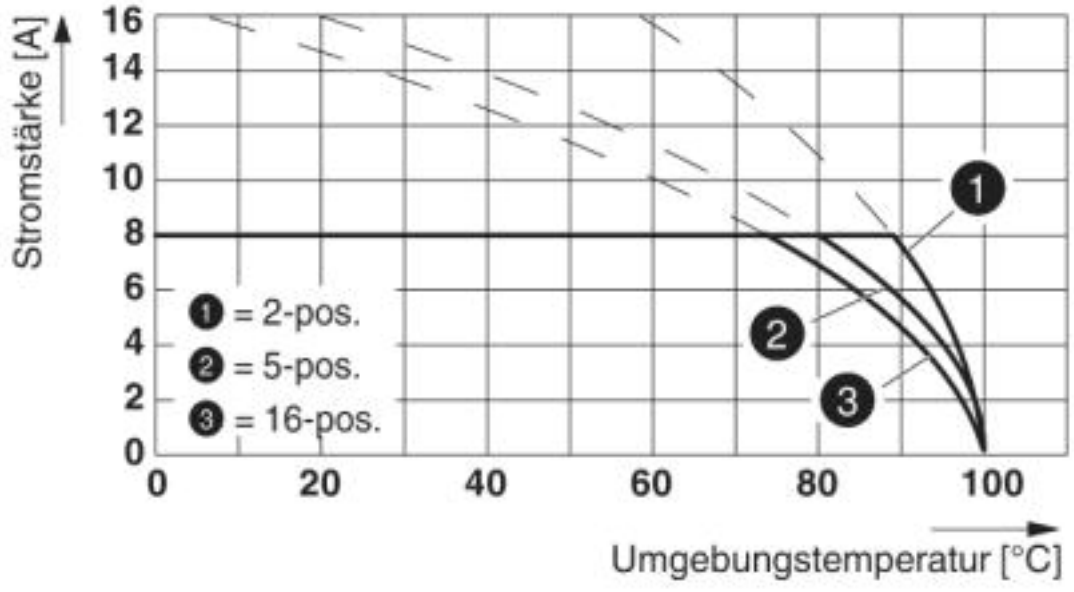
**Labeled terminal marker**

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



## Drawings

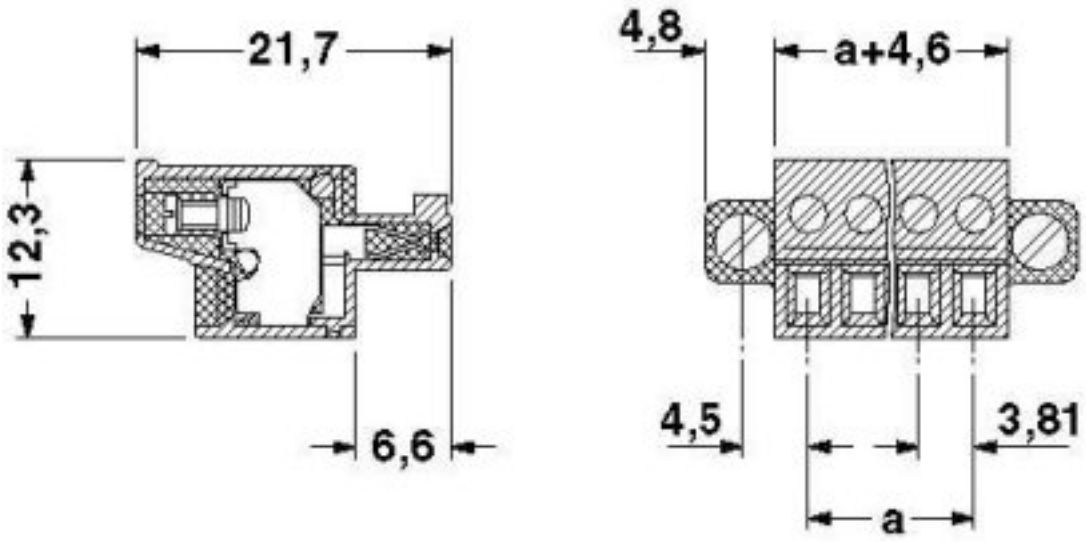
Diagram




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

# Printed-circuit board connector - FRONT-MC 1,5/ 5-STF-3,81 - 1850880

Dimensioned drawing




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