

# Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

## Product description


Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

## Why buy this product

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



## Key commercial data

Packing unit	1
Minimum order quantity	50
Catalog page	Page 182 (CC-2011)
GTIN	 4 017918 109837
Weight per piece (including packing)	0.0 GRM
Weight per Piece (excluding packing)	7.5 GRM
Country of origin	GERMANY

## Technical data

### Dimensions / positions

Pitch	3.81 mm
Dimension a	19.05 mm
Number of positions	6
Screw thread	M2

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## Technical data

### Dimensions / positions

Tightening torque, min	0.22 Nm
Tightening torque max	0.25 Nm

### Technical data

Range of articles	FRONT-MC 1,5/...-ST
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/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	160 V
Nominal cross section	1.5 mm <sup>2</sup>
Maximum load current	8 A (with 1.5 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Inflammability class according to UL 94	V0
Internal cylindrical gage	A1
Stripping length	9 mm
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A

### Connection data

Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	0.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
2 conductors with same cross section, solid min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, solid max.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	0.75 mm <sup>2</sup>

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## Technical data

### Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.34 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	16

## Classifications

### eclass

eClass 4.0	272607xx
eClass 4.1	27260701
eClass 5.0	27260701
eClass 5.1	27260701
eClass 6.0	27260704

### etim

ETIM 3.0	EC001121
ETIM 4.0	EC002638

### unspsc

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

## Approvals

### Certificates

#### Certification

CSA / UL Recognized / VDE report with production monitoring / cUL Recognized / IECCE CB Scheme / cULus Recognized

#### Certification EX

#### Certification submitted

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## Approvals

### Approval details

CSA		
	B	D
mm <sup>2</sup> /AWG/kcmil	28-16	28-16
Nominal current IN	8 A	8 A
Nominal voltage UN	300 V	300 V

UL Recognized		
	B	D
mm <sup>2</sup> /AWG/kcmil	30-16	30-16
Nominal current IN	8 A	8 A
Nominal voltage UN	300 V	300 V

VDE report with production monitoring	
mm <sup>2</sup> /AWG/kcmil	0.2-1.5
Nominal current IN	8 A
Nominal voltage UN	160 V

cUL Recognized		
	B	D
mm <sup>2</sup> /AWG/kcmil	30-16	30-16
Nominal current IN	8 A	8 A
Nominal voltage UN	300 V	300 V

IECEE CB Scheme	
mm <sup>2</sup> /AWG/kcmil	0.2-1.5
Nominal current IN	8 A
Nominal voltage UN	160 V

cULus Recognized

## Accessories

Accessories

Marking

## Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

### Accessories

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

Marker cards, Card, white, Labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type:



Marker cards - SK 3,81/2,8:SO - 0805056

Marker cards, white, Mounting type: Adhesive, For terminal block width: 3.81 mm



Marker cards - SK U/2,8 WH:UNBEDRUCKT - 0803883

Marker cards, Sheet, white, Unlabeled, Can be labeled with: Plotter, Office-Drucksysteme, Mounting type: Adhesive



Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



### Tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037

Screwdriver, bladed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip



### Additional products

## Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

### Accessories

Base strip - MCO 1,5/ 6-GL-3,81 - 1861769

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MCO 1,5/ 6-GR-3,81 - 1861688

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MCDV 1,5/ 6-G1-3,81 - 1847767

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MCDV 1,5/ 6-G-3,81 - 1830444

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MCD 1,5/ 6-G1-3,81 - 1843114

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



## Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

### Accessories

Base strip - MCD 1,5/ 6-G-3,81 - 1829992

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Printed-circuit board connector - IMC 1,5/ 6-ST-3,81 - 1857922

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Connection meth



Base strip - MCVK 1,5/ 6-G-3,81 - 1832772

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Connection meth



Base strip - MCVDU 1,5/ 6-G-3,81 - 1837476

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MCV 1,5/ 6-G-3,81 - 1803468

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



## Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

### Accessories

Base strip - MC 1,5/ 6-G-3,81 - 1803316

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - MC 1,5/ 6-G-3,81 THT - 1908800

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: Black, Contact sur



Base strip - SMC 1,5/ 6-G-3,81 - 1827318

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - EMCV 1,5/ 6-G-3,81 - 1860689

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur



Base strip - EMC 1,5/ 6-G-3,81 - 1897843

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 6, Pitch: 3.81 mm, Color: green, Contact sur

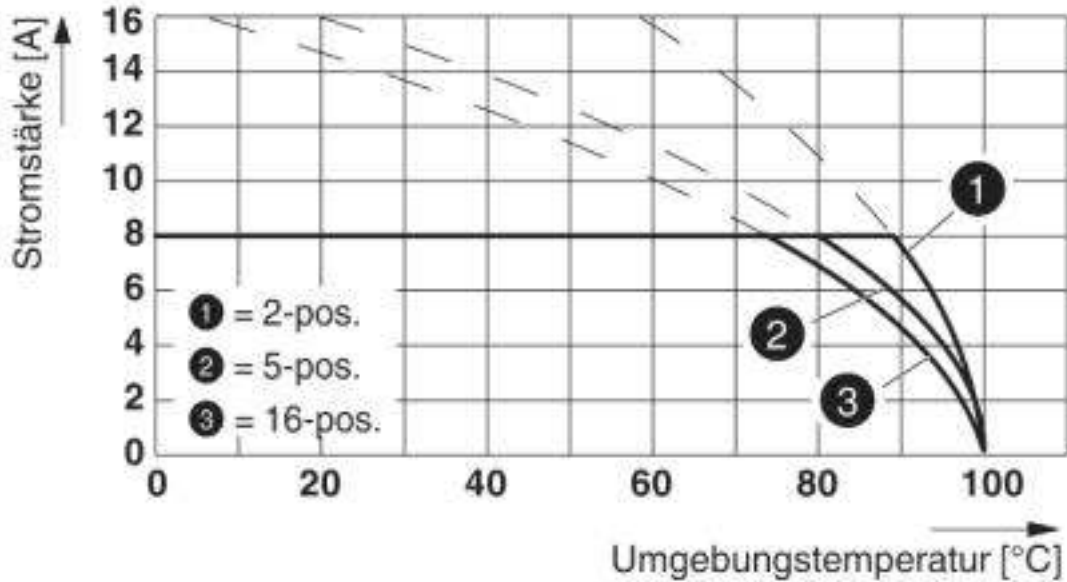


### Drawings



# Printed-circuit board connector - FRONT-MC 1,5/ 6-ST-3,81 - 1850709

Diagram



Type: FRONT-MC 1,5/...-ST-3,81 with SMC 1,5/...-G-3,81

Dimensioned drawing

