

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

## Why buy this product

- 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

Packing unit	50 pc
GTIN	4 017918 109776
Weight per Piece (excluding packing)	12.75 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Pitch	3.81 mm
Dimension a	34.29 mm

### General

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/3)	160 V

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

## Technical data

### General

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 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
Number of positions	10
Screw thread	M2
Tightening torque, min	0.22 Nm
Tightening torque max	0.25 Nm

### 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>
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

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## 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	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

### Approvals


#### Approvals

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

#### Ex Approvals

#### Approvals submitted

### Approval details

CSA 		
	B	D
mm <sup>2</sup> /AWG/kcmil	28-16	28-16
Nominal current I <sub>N</sub>	8 A	8 A

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

## Approvals

	B	D
Nominal voltage UN	300 V	300 V

UL Recognized

	B	D
mm <sup>2</sup> /AWG/kcmil	30-16	30-16
Nominal current I <sub>N</sub>	8 A	8 A
Nominal voltage UN	300 V	300 V

VDE Gutachten mit Fertigungsüberwachung

mm <sup>2</sup> /AWG/kcmil	0.2-1.5
Nominal current I <sub>N</sub>	8 A
Nominal voltage UN	160 V

cUL Recognized

	B	D
mm <sup>2</sup> /AWG/kcmil	30-16	30-16
Nominal current I <sub>N</sub>	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 I <sub>N</sub>	8 A
Nominal voltage UN	160 V

GOST

CCA

mm <sup>2</sup> /AWG/kcmil	0.2-1.5
Nominal current I <sub>N</sub>	8 A

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

## Approvals

Nominal voltage UN	160 V
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## Accessories

### Accessories

#### Labeled terminal marker

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: Adhesive, For terminal block width: 3.81 mm, Lettering field: 3.81 x 2.8 mm

#### Marker pen

Marker pen - B-STIFT - 1051993



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

#### 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

#### Terminal marking

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



Marker cards, Sheet, white, Unlabeled, Can be labeled with: Plotter, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 2.8 mm

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

## Accessories

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### Additional products

Base strip - MCO 1,5/10-GL-3,81 - 1861808



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

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Base strip - MCO 1,5/10-GR-3,81 - 1861727



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

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Base strip - MCDV 1,5/10-G-3,81 - 1830486



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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Base strip - MCDV 1,5/10-G1-3,81 - 1847819



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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Base strip - MCD 1,5/10-G1-3,81 - 1843156



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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## Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

### Accessories

#### Base strip - MCD 1,5/10-G-3,81 - 1830033



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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#### Printed-circuit board connector - IMC 1,5/10-ST-3,81 - 1857964



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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#### Base strip - MCVK 1,5/10-G-3,81 - 1832811



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin, Assembly: DIN rail

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#### Base strip - MCVDU 1,5/10-G-3,81 - 1837515



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

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#### Base strip - MCV 1,5/10-G-3,81 - 1803507



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

## Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

### Accessories

Base strip - MC 1,5/10-G-3,81 - 1803358

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering



Base strip - MC 1,5/10-G-3,81 THT - 1908842

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: black, Contact surface: Tin, Assembly: SMD/THT/THR, User information and design recommendations for through hole reflow technology can be found under "Downloads"



Base strip - SMC 1,5/10-G-3,81 - 1827350

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering



Base strip - EMCV 1,5/10-G-3,81 - 1860728

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Press-in



Base strip - EMC 1,5/10-G-3,81 - 1897885

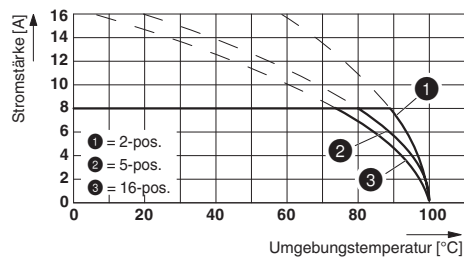
Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 10, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Press-in



### Drawings

# Printed-circuit board connector - FRONT-MC 1,5/10-ST-3,81 - 1850741

Diagram



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

Dimensioned drawing

