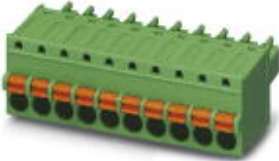


## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

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Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, connection method: Push-in spring connection, Color: green, Contact surface: Tin




The figure shows a 10-position version of the product

### 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
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Quick and convenient testing using integrated test option



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 109684
GTIN	4017918109684
Weight per Piece (excluding packing)	8.540 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Length	21 mm
Height	12.4 mm
Width	35.08 mm
Pitch	3.81 mm

# Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

## Technical data

### Dimensions

Dimension a	30.48 mm
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### General

Range of articles	FK-MCP 1,5/...-ST
Type of contact	Female connector
Number of positions	9
Connection method	Push-in spring connection
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 mm <sup>2</sup>
Maximum load current	8 A (with 1.5 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A1
Stripping length	9 mm

### 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 flexible min.	0.14 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.	26
Conductor cross section AWG max.	16
Minimum AWG according to UL/CUL	28
Maximum AWG according to UL/CUL	16

### Standards and Regulations

Connection in acc. with standard	EN-VDE
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# Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

## Technical data

### Standards and Regulations

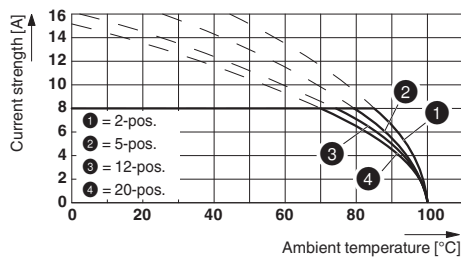
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

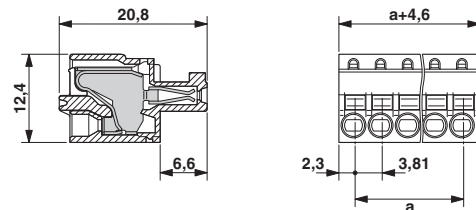
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Diagram



Dimensional drawing



Type: FK-MCP 1,5/...-ST(F)-3,81 with MC 1,5/...-G(F)-3,81 P.. THR(R...)

## 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
eCl@ss 9.0	27440309

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638

# Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

## Classifications

### 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 / IEC60335 CB Scheme / CCA / cULus Recognized / EAC

#### Ex Approvals


### Approval details

CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
		B	
mm <sup>2</sup> /AWG/kcmil		28-16	
Nominal current I <sub>N</sub>		8 A	
Nominal voltage U <sub>N</sub>		300 V	


VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40011723
		0.2-1.5	
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	


# Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

## Approvals

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58415-B1B2
mm <sup>2</sup> /AWG/kcmil		0.2-1.5	
Nominal current IN		8 A	
Nominal voltage UN		160 V	

CCA		CCA/ DE1 34219
mm <sup>2</sup> /AWG/kcmil		0.2-1.5
Nominal current IN		8 A
Nominal voltage UN		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
		B	
mm <sup>2</sup> /AWG/kcmil		28-16	
Nominal current IN		8 A	
Nominal voltage UN		300 V	

EAC		B.01742
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## Accessories

### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

### Labeled terminal marker

## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

### Accessories

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

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### 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

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### Terminal marking

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



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 2.8 mm

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Test plugs - MPS-MT 1-S - 1944372



Test plugs, consisting of  $\varnothing$  1 mm test pin, 150 mm conductor length, and  $\varnothing$  2 mm socket

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### Additional products

## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

### Accessories

#### Base strip - MCV 1,5/ 9-G-3,81 P14 THR - 1707078

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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/ 9-G-3,81 P26 THR - 1707492

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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/ 9-G-3,81 P26 THRR56 - 1713567

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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/ 9-G-3,81 P20 THRR56 - 1782640

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: black, Contact surface: Tin, mounting: THR soldering



#### Base strip - MC 1,5/ 9-G-3,81 - 1803345

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

### Accessories

#### Base strip - MCV 1,5/ 9-G-3,81 - 1803497



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

#### Base strip - SMC 1,5/ 9-G-3,81 - 1827347



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

#### Base strip - MCD 1,5/ 9-G-3,81 - 1830020



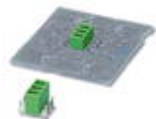
Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

#### Base strip - MCDV 1,5/ 9-G-3,81 - 1830473



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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.

#### Base strip - MCVDU 1,5/ 9-G-3,81 - 1837502



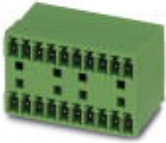
Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

### Accessories

#### Base strip - MCD 1,5/ 9-G1-3,81 - 1843143



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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/ 9-G1-3,81 - 1847806



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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/ 9-G-3,81 - 1860715



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Press-in technology

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#### Base strip - MCO 1,5/ 9-GR-3,81 - 1861714



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

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#### Base strip - MCO 1,5/ 9-GL-3,81 - 1861798



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - FK-MCP 1,5/ 9-ST-3,81 - 1851119

### Accessories

#### Base strip - EMC 1,5/ 9-G-3,81 - 1897872

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, pitch: 3.81 mm, Color: green, Contact surface: Tin, mounting: Press-in technology



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#### Base strip - MC 1,5/ 9-G-3,81 THT - 1908839

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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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#### Base strip - MC 1,5/ 9-G-3,81 THT-R56 - 1943823

Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 9, 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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