

# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

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PCB connector, nominal current: 8 A, number of positions: 12, 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

## Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Screwable flange for superior mechanical stability



## Key Commercial Data

Packing unit	50 pc
GTIN	 4 017918 050269
GTIN	4017918050269
Weight per Piece (excluding packing)	9.323 g
Custom tariff number	85366990
Country of origin	Germany
Sales Key	AAAEAA

## Technical data

### Dimensions

Length [ l ]	16.1 mm
Width [ w ]	56.11 mm
Height [ h ]	11.1 mm
Pitch	3.81 mm
Dimension a	41.91 mm

### General

Range of articles	MC 1,5/...STF
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# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

## Technical data

### General

Number of positions	12
Connection method	Screw connection with tension sleeve
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	7 mm
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 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.	0.5 mm <sup>2</sup>
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
2 conductors with same cross section, solid min.	0.08 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.	0.08 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>

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## Technical data

### Connection data

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	14

### Standards and Regulations

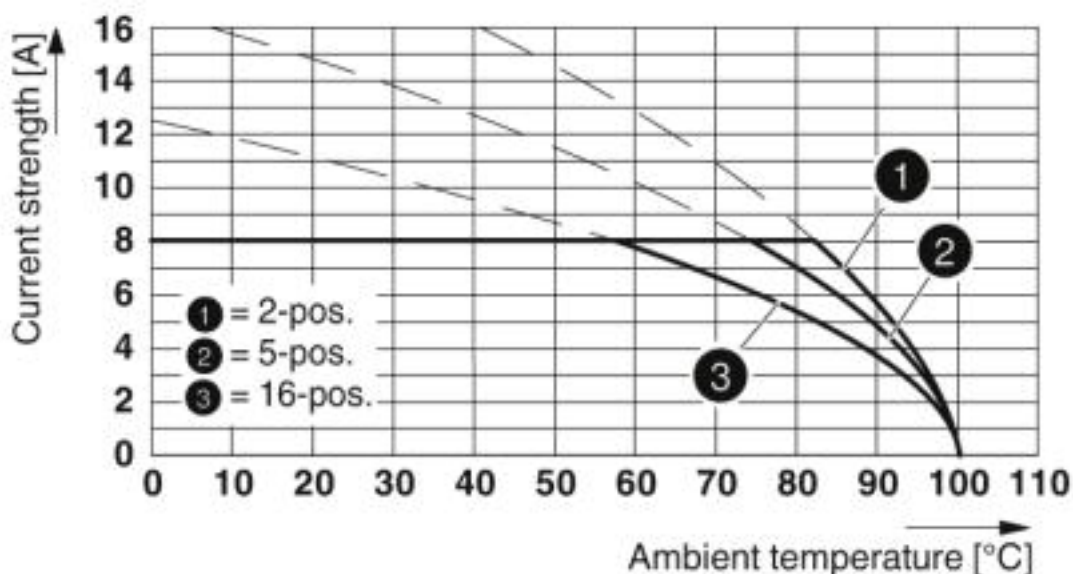
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

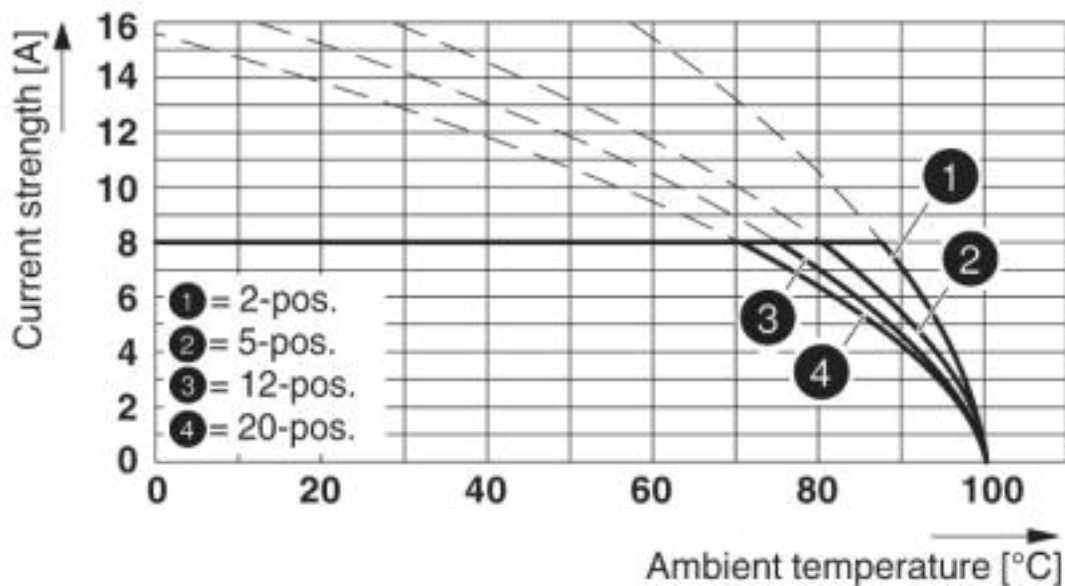
Diagram



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

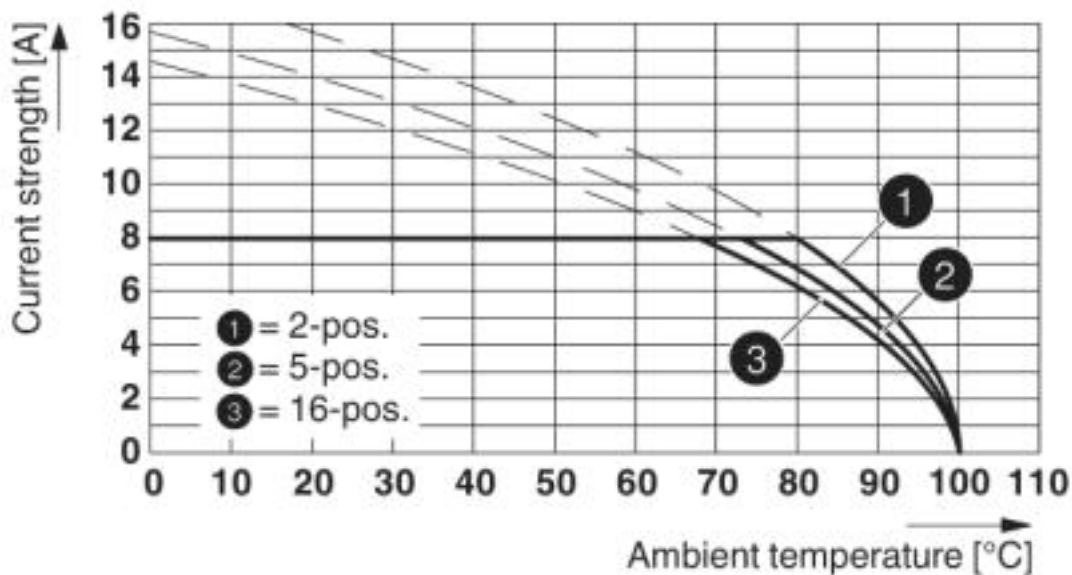
# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

Diagram



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

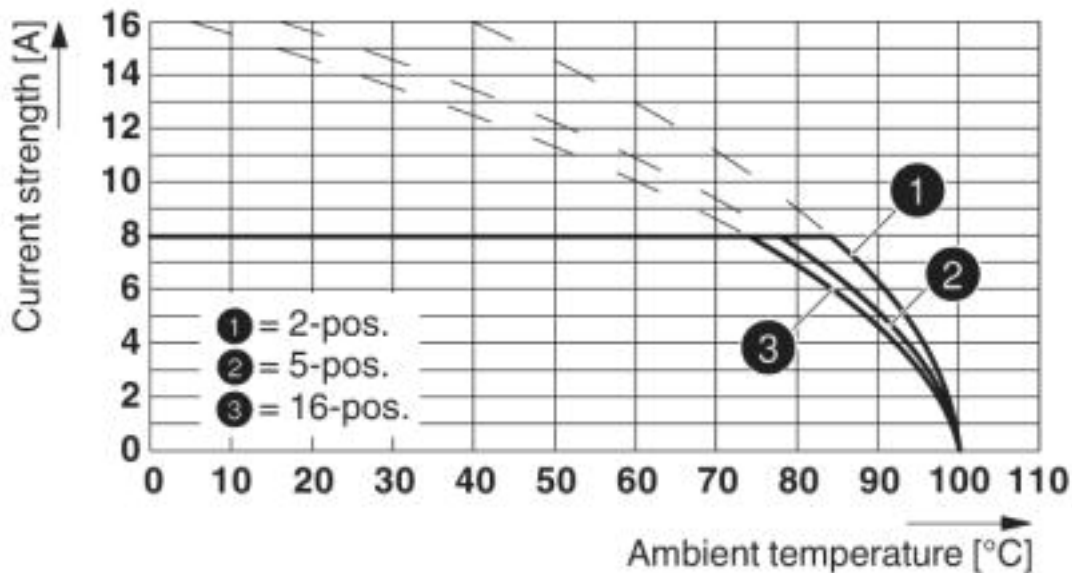
Diagram



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

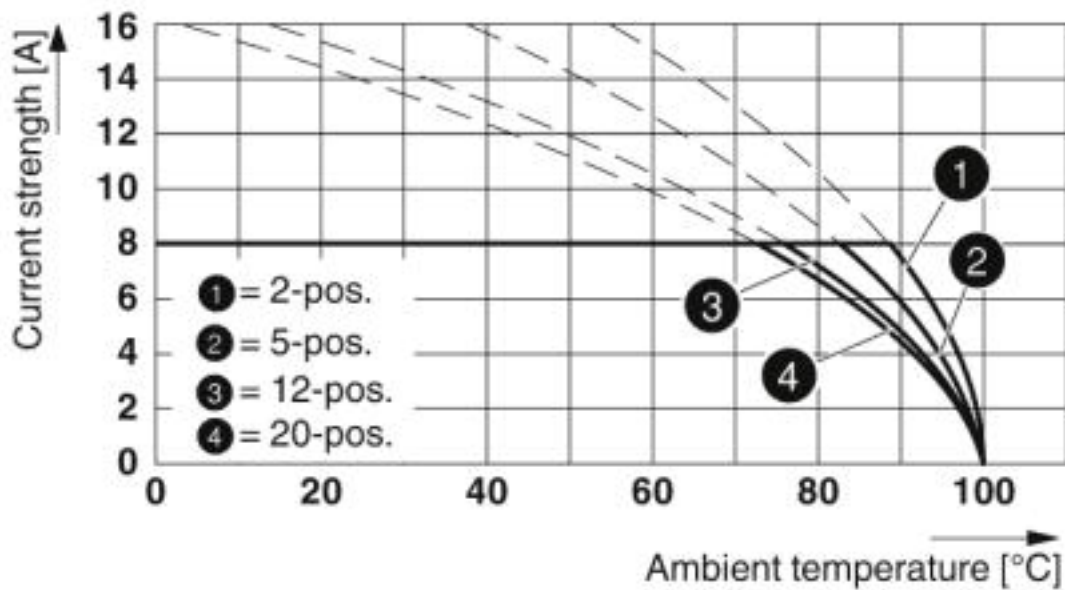
# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

Diagram



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

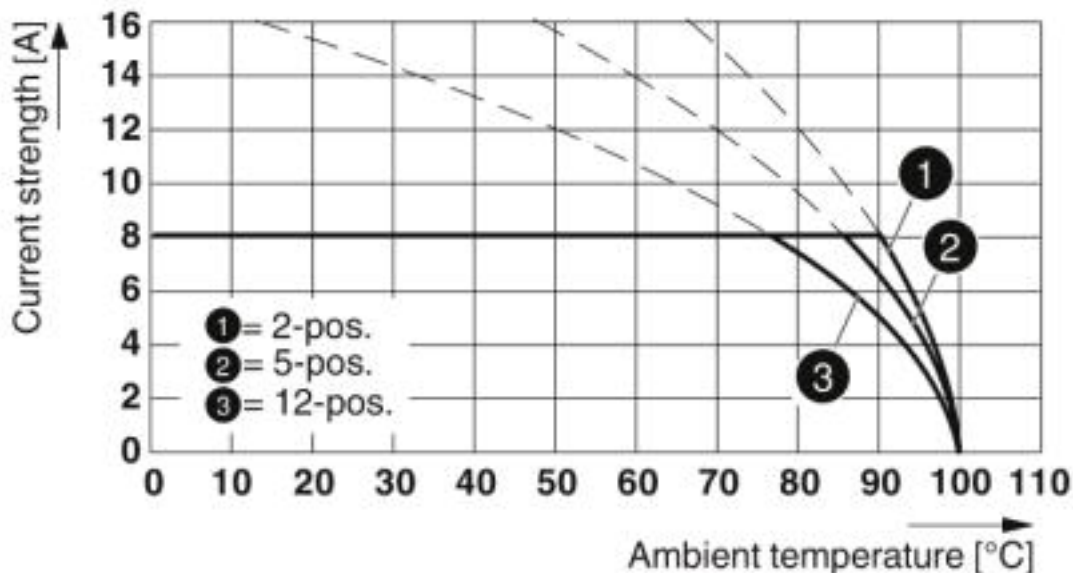
Diagram



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

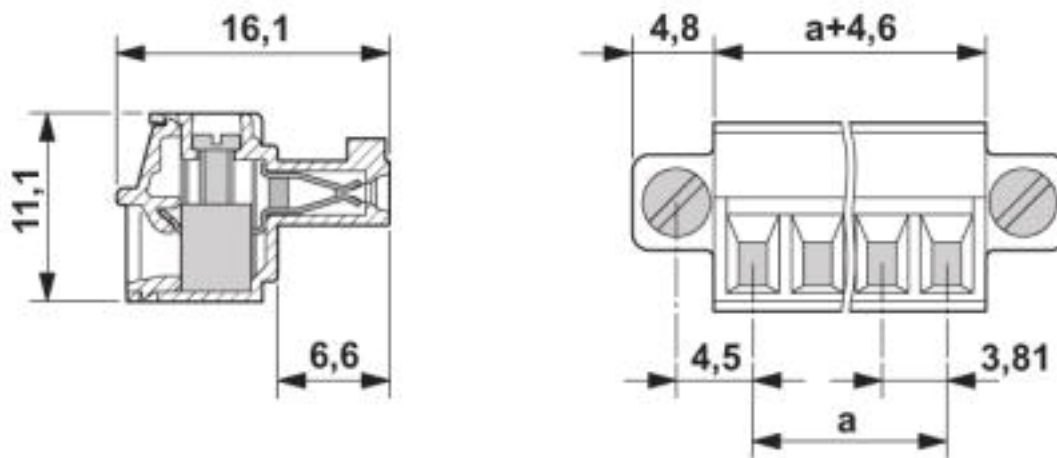
# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

Diagram



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

Dimensional drawing



## Classifications

eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309

# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

## Classifications

### eCl@ss

eCl@ss 9.0	27440309
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### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	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 / IECCEB CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

#### Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	8 A	8 A	
mm <sup>2</sup> /AWG/kcmil	28-16	28-16	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-60987-B1B2
Nominal voltage UN	160 V		

# Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

## Approvals

Nominal current IN	8 A
mm <sup>2</sup> /AWG/kcmil	0.2-1.5

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40011723
Nominal voltage UN	160 V		
Nominal current IN	8 A		
mm <sup>2</sup> /AWG/kcmil	0.2-1.5		

EAC		B.01742
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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>	E60425-20110128
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	8 A	8 A	
mm <sup>2</sup> /AWG/kcmil	30-14	30-14	

## Accessories

### Accessories

#### Bridge

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



## Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

### Accessories

Insertion bridge - EBPL 4-3,81 - 1733518



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

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### Cable housing

Cable housing - KGG-MC 1,5/12 - 1834440



Cable housing, pitch: 3.81 mm, number of positions: 12, dimension a: 48.11 mm, color: green

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### 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 size: 3.81 x 2.8 mm

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### 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

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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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## Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

### Accessories

#### Additional products

##### Printed-circuit board connector - MCV 1,5/12-GF-3,81 P14 THR - 1707311

PCB headers, nominal current: 8 A, number of positions: 12, 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 - MCV 1,5/12-GF-3,81 P26 THR - 1707735

PCB headers, nominal current: 8 A, number of positions: 12, 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"



##### Feed-through header - MCV 1,5/12-GF-3,81 P26 THRR72 - 1713444

PCB headers, nominal current: 8 A, number of positions: 12, 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 1,5/12-GF-3,81 P20 THRR72 - 1782129

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering



##### Feed-through header - SMC 1,5/12-GF-3,81 - 1827525

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

### Accessories

#### Printed-circuit board connector - MC 1,5/12-GF-3,81 - 1827965

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MCD 1,5/12-GF-3,81 - 1830208

PCB headers, nominal current: 8 A, number of positions: 12, 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.



#### Feed-through header - MCDV 1,5/12-GF-3,81 - 1830350

PCB headers, nominal current: 8 A, number of positions: 12, 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.



#### Feed-through header - MCV 1,5/12-GF-3,81 - 1830693

PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MCDV 1,5/12-G1F-3,81 - 1842869

PCB headers, nominal current: 8 A, number of positions: 12, 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.



## Printed-circuit board connector - MC 1,5/12-STF-3,81 - 1827800

### Accessories

Printed-circuit board connector - MCD 1,5/12-G1F-3,81 - 1843017



PCB headers, nominal current: 8 A, number of positions: 12, 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.

Feed-through header - EMCV 1,5/12-GF-3,81 - 1879382



PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Feed-through header - EMC 1,5/12-GF-3,81 - 1897047



PCB headers, nominal current: 8 A, number of positions: 12, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Feed-through header - MC 1,5/12-GF-3,81 THT - 1909139



PCB headers, number of positions: 12, pitch: 3.81 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Feed-through header - MC 1,5/12-GF-3,81 THT-R72 - 1996634



PCB headers, number of positions: 12, pitch: 3.81 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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