Printed-circuit board connector - FMC 1,5/ 8-ST-3,81 - 1748037

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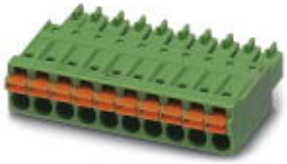
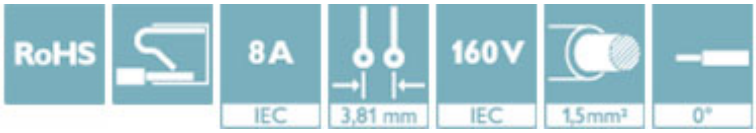
PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, connection method: Push-in spring connection, color: green, contact surface: Tin



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



Key Commercial Data

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 046356 311076
GTIN	4046356311076
Weight per Piece (excluding packing)	4.940 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length [l]	21.9 mm
Width [w]	30.92 mm
Height [h]	7.75 mm
Pitch	3.81 mm
Dimension a	26.67 mm

General

Range of articles	FMC 1,5/..-ST

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Technical data

General

Type of contact	Female connector
Number of positions	8
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 mm²
Maximum load current	8 A
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A1
Stripping length	10 mm

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Minimum AWG according to UL/CUL	24
Maximum AWG according to UL/CUL	16

Specifications for ferrules

Recommended crimping pliers	1212034 CRIMPFOX 6
Ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 5 mm ... 7 mm
	Cross section: 0.34 mm²; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm ... 10 mm
	Cross section: 0.75 mm²; Length: 8 mm ... 10 mm
	Cross section: 1 mm²; Length: 8 mm ... 10 mm

Standards and Regulations

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Technical data

Standards and Regulations

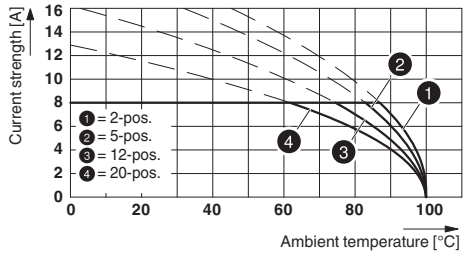
Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

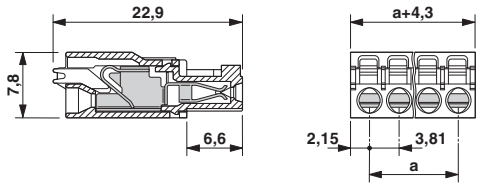
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Diagram



Dimensional drawing



Type: FMC 1,5/...-ST-3,81 with MCV 1,5/...-G-3,81 P.. THR

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
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

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409

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Classifications

UNSPSC

UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

Approvals

Approvals

Approvals

VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / EAC / cULus Recognized

Ex Approvals

Approval details

VDE Gutachten mit Fertigungsüberwachung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40011723

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

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-60604-B1B2

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

EAC	EAC	B.01742

cULus Recognized	c UL us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19920306

	B	C
Nominal voltage UN	300 V	50 V
Nominal current IN	8 A	8 A

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Approvals

	B	C
mm²/AWG/kcmil	24-16	24-16

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 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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

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

Additional products

Header - MCV 1,5/ 8-G-3,81 P14 THR - 1707065

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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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Accessories

Header - MCV 1,5/ 8-G-3,81 P26 THR - 1707489

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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”

Header - MCV 1,5/ 8-G-3,81 P26 THRR56 - 1712940

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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”

Header - MCDN 1,5/ 8-G1-3,81 P14THR - 1749395

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: Downloads".

Printed-circuit board connector - MCDN 1,5/ 8-G1-3,81 P26THR - 1749586

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 2.6 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads"

Header - MCDNV 1,5/ 8-G1-3,81 P14THR - 1750164

PCB headers, nominal current: 8 A, rated voltage (III/2): 200 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: Downloads".

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Accessories

Printed-circuit board connector - MCDNV 1,5/ 8-G1-3,81 P26THR - 1750355

PCB headers, nominal current: 8 A, rated voltage (III/2): 200 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 26 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: http: "Downloads".

Printed-circuit board connector - MC 1,5/ 8-G-3,81 P20 THRR56 - 1782637

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering

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Printed-circuit board connector - MC 1,5/ 8-G-3,81 - 1803332

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Printed-circuit board connector - MCV 1,5/ 8-G-3,81 - 1803484

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Printed-circuit board connector - SMC 1,5/ 8-G-3,81 - 1827334

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Printed-circuit board connector - FMC 1,5/ 8-ST-3,81 - 1748037

Accessories

Header - MCD 1,5/ 8-G-3,81 - 1830017

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

Header - MCDV 1,5/ 8-G-3,81 - 1830460

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

Header - MCVDU 1,5/ 8-G-3,81 - 1837492

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - MCD 1,5/ 8-G1-3,81 - 1843130

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

Header - MCDV 1,5/ 8-G1-3,81 - 1847796

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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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Accessories

Header - EMCV 1,5/ 8-G-3,81 - 1860702

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Header - MCO 1,5/ 8-GR-3,81 - 1861701

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Header - MCO 1,5/ 8-GL-3,81 - 1861785

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Wave soldering

Header - EMC 1,5/ 8-G-3,81 - 1897869

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: green, contact surface: Tin, mounting: Press-in technology

Header - MC 1,5/ 8-G-3,81 THT - 1908826

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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 - FMC 1,5/ 8-ST-3,81 - 1748037

Accessories

Header - MC 1,5/ 8-G-3,81 THT-R56 - 1943810

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, 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”

Header - MCD 1,5/ 8-G1-3,81 HT BK - 1948080

PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 8, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering, Standard component made of highly temperature resistant plastic; suitable for reflow process. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads".