1966114

https://www.phoenixcontact.com/us/products/1966114



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PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

### Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Operation and conductor connection from one direction enable integration into front of device
- · Screwable flange for superior mechanical stability

### Commercial data

Item number	1966114
Packing unit	50 рс
Minimum order quantity	50 рс
Sales key	AA02
Product key	AABFAB
Catalog page	Page 201 (C-1-2013)
GTIN	4017918943301
Weight per piece (including packing)	3.265 g
Weight per piece (excluding packing)	2.986 g
Customs tariff number	85366990
Country of origin	DE



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## **DPHŒNIX** CONTACT

## Technical data

### Product properties

Product type	PCB connector
Product family	FMC 1,5/STF
Product line	COMBICON Connectors S
Туре	Standard
Number of positions	4
Pitch	3.5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting flange	Screw flange

### **Electrical properties**

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	160 V
Degree of pollution	3
Contact resistance	1.6 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

#### Connection data

Connection	technology
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Туре	Standard
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm <sup>2</sup>
Contact connection type	Socket
Interlock	
Locking type	Screw locking mechanism
Mounting flange	Screw flange
Tightening torque	0.3 Nm
Conductor connection	
Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	24 16

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Conductor cross section flexible, with ferrule without plastic leeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup>
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	10 mm
ecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm <sup>2</sup> ; Length: 7 mm
	Cross section: 0.34 mm <sup>2</sup> ; Length: 7 mm
	Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 0.75 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 1 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 1.5 mm <sup>2</sup> ; Length: 10 mm
ecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm <sup>2</sup> ; Length: 8 mm
	Cross section: 0.25 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 0.34 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section. 0.5 mm, Length. 6 mm 10 mm

### Material specifications

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)
aterial data - housing	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	VO
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2- 13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C

Material data - actuating element

Color (Actuating element)	orange (2003)
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Insulating material	РВТ
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

#### Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	24.3 mm
Height [h]	7.8 mm
Length [I]	

### Mounting

Flange	
Tightening torque	0.3 Nm

#### Mechanical tests

Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Repeated connection and disconnection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	9 N



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Withdraw strength per pos. approx.	7 N	
Resistance of inscriptions		
Specification	IEC 60068-2-70:1995-12	
Result	Test passed	
Polarization and coding		
Specification	IEC 60512-13-5:2006-02	
Result	Test passed	
Visual inspection		
Specification	IEC 60512-1-1:2002-02	
Result	Test passed	
Dimension check		
Specification	IEC 60512-1-2:2002-02	
Result	Test passed	

### Environmental and real-life conditions

SpecificationIEC 60068-2-6:2007-12Frequency10 - 150 - 10 HzSweep speed1 octave/minAmplitude0.35 mm (10 Hz 60.1 Hz)Acceleration5g (60.1 Hz 150 Hz)Test duration per axis2.5 hSpecificationIEC 60512-9-1:2010-03Impulse withstand voltage at sea level2.95 kVContact resistance R11.6 mQContact resistance R21.7 mQInsertion/withdrawal cycles25SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ S02 on 300 dm³/40 °C/1 cycleThermal stress1.00 °C/168 hPower frequency withstand voltage1.39 kVSpecificationIEC 60068-2-27:2008-02Pulse shapeSemi-sinuscidalAcceleration30gShock duration18 ms	√ibration test	
Frequency10 - 150 - 10 HzSweep speed1 octave/minAnplitude0.35 mm (10 Hz 60.1 Hz)Acceleration5g (60.1 Hz 150 Hz)Test duration per axis2.5 hSpecificationIEC 60512-9-1:2010-03Impulse withstand voltage at sea level2.95 kVContact resistance R11.6 mQContact resistance R21.7 mQInsertion/withdrawal cycles25SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltageSemi-sinusoidalAccelerationIEC 60068-2-27:2008-02SpecificationIEC 60068-2-27:2008-02SpecificationSemi-sinusoidalAcceleration30gShock duration18 ms		IEC 60068-2-6:2007-12
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Acceleration5g (60.1 Hz 150 Hz)Test duration per axis2.5 hDurability testSpecificationIEC 60512-9-1:2010-03Impulse withstand voltage at sea level2.95 kVContact resistance R11.6 mQContact resistance R21.7 mQInsertion/withdrawal cycles25SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltage1.39 kVShock durationIEC 60068-2-27:2008-02Pulse shapeSemi-sinuscidalAcceleration30gShock duration18 ms		1 octave/min
Test duration per axis       2.5 h         Durability test       IEC 60512-9-1:2010-03         Impulse withstand voltage at sea level       2.95 kV         Contact resistance R1       1.6 mQ         Contact resistance R2       1.7 mQ         Insertion/withdrawal cycles       25         Specification       ISO 6988:1985-02         Corrosive stress       0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle         Thermal stress       100 °C/168 h         Power-frequency withstand voltage       1.39 kV         Specification       IEC 60068-2-27:2008-02         Pulse shape       Semi-sinusoidal         Acceleration       30g         Shock duration       18 ms	Amplitude	0.35 mm (10 Hz 60.1 Hz)
Durability test Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 2.95 kV Contact resistance R1 Contact resistance R2 Contact resistance R2 Insertion/withdrawal cycles 25 Corrosive stress Specification ISO 6988:1985-02 Corrosive stress	Acceleration	5g (60.1 Hz 150 Hz)
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SpecificationIEC 60512-9-1:2010-03Impulse withstand voltage at sea level2.95 kVContact resistance R11.6 mΩContact resistance R21.7 mΩInsertion/withdrawal cycles25SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltage1.39 kVSpecificationIEC 60068-2-27:2008-02SpecificationSemi-sinusoidalAcceleration30gShock duration18 ms	Durability toot	
Impulse withstand voltage at sea level2.95 kVContact resistance R11.6 mΩContact resistance R21.7 mΩInsertion/withdrawal cycles25SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleCorrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltage1.39 kVSpecificationIEC 60068-2-27:2008-02Pulse shapeSemi-sinusoidalAcceleration30gShock duration18 ms		IEC 60512-9-1:2010-03
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Insertion/withdrawal cycles       25         Insertion/withdrawal cycles       25         Specification       ISO 6988:1985-02         Corrosive stress       0.2 dm³ SO <sub>2</sub> on 300 dm³/40 °C/1 cycle         Thermal stress       100 °C/168 h         Power-frequency withstand voltage       1.39 kV         Specification       IEC 60068-2-27:2008-02         Pulse shape       Semi-sinusoidal         Acceleration       30g         Shock duration       18 ms		
Specification       ISO 6988:1985-02         Corrosive stress       0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle         Thermal stress       0.0 °C/168 h         Power-frequency withstand voltage       1.39 kV         Specification       IEC 60068-2-27:2008-02         Pulse shape       Semi-sinusoidal         Acceleration       30g         Shock duration       18 ms		
SpecificationISO 6988:1985-02Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltage1.39 kVShocksSpecificationIEC 60068-2-27:2008-02Pulse shapeSemi-sinusoidalAcceleration30gShock duration18 ms		
Corrosive stress0.2 dm³ SO2 on 300 dm³/40 °C/1 cycleThermal stress100 °C/168 hPower-frequency withstand voltage1.39 kVShocksIEC 60068-2-27:2008-02Pulse shapeSemi-sinusoidalAcceleration30gShock duration18 ms	Climatic test	
Thermal stress       100 °C/168 h         Power-frequency withstand voltage       1.39 kV         Shocks       IEC 60068-2-27:2008-02         Pulse shape       Semi-sinusoidal         Acceleration       30g         Shock duration       18 ms	Specification	ISO 6988:1985-02
Power-frequency withstand voltage       1.39 kV         Shocks       IEC 60068-2-27:2008-02         Pulse shape       Semi-sinusoidal         Acceleration       30g         Shock duration       18 ms	Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Shocks     IEC 60068-2-27:2008-02       Pulse shape     Semi-sinusoidal       Acceleration     30g       Shock duration     18 ms	Thermal stress	100 °C/168 h
SpecificationIEC 60068-2-27:2008-02Pulse shapeSemi-sinusoidalAcceleration30gShock duration18 ms	Power-frequency withstand voltage	1.39 kV
Specification     IEC 60068-2-27:2008-02       Pulse shape     Semi-sinusoidal       Acceleration     30g       Shock duration     18 ms	Shocks	
Pulse shape     Semi-sinusoidal       Acceleration     30g       Shock duration     18 ms		IEC 60068-2-27:2008-02
Acceleration     30g       Shock duration     18 ms		Semi-sinusoidal
Shock duration 18 ms	· ·	
Test directions X-, Y- and Z-axis (pos. and neg.)	Shock duration	
	Test directions	X-, Y- and Z-axis (pos. and neg.)

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Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
ctrical tests	
nermal test   Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
r clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

packed in cardboard

### Packaging specifications

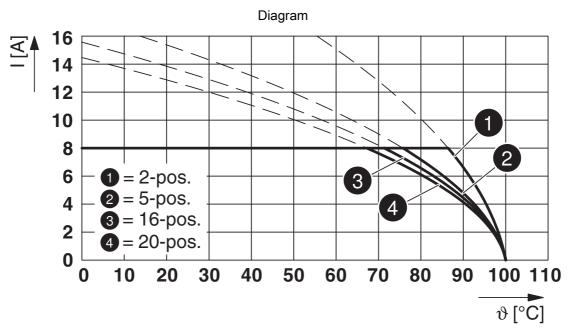
Type of packaging
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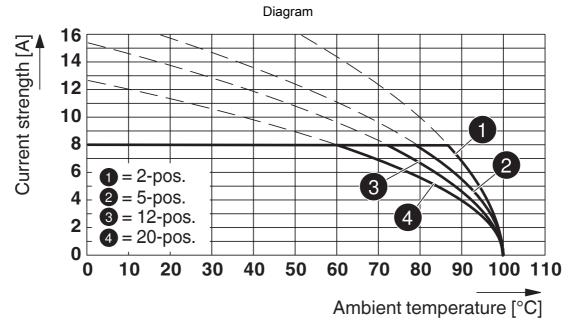
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### Drawings



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

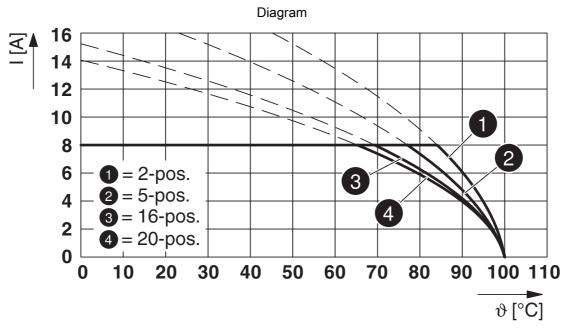


Type: FMC 1,5/...-STF-3,5 with MCV 1,5/...-GF-3,5 P... THR

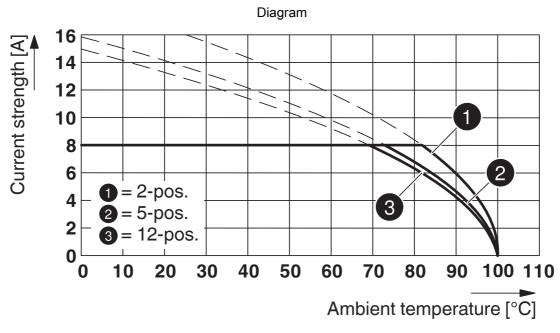


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Type: FMC 1,5/...-STF-3,5 with MCV 1,5/...-GF-3,5



Type: FMC 1,5/...-STF-3,5 with MC 1,5/...-GF-3,5 P.. THR



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### Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1966114

Approval ID: E60425-19920306				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
Field wiring	150 V	8 A	24 - 16	-
Use group C				
Factory wiring	50 V	8 A	24 - 16	-

VDE Zeichengenehmigung Approval ID: 40011723				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	160 V	8 A	-	0.2 - 1.5



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## Classifications

#### ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

### ETIM

	ETIM 9.0	EC002638			
UN	UNSPSC				
	UNSPSC 21.0	39121400			

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions			
China RoHS				
Environment friendly use period (EFUP)	EFUP-E			
	No hazardous substances above the limits			
EU REACH SVHC				
REACH candidate substance (CAS No.)	No substance above 0.1 wt%			

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Accessories

SK 3,5/2,8:FORTL.ZAHLEN - Marker card

0804073 https://www.phoenixcontact.com/us/products/0804073



Marker card, Sheet, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 . .. 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size:  $3.5 \times 2.8$  mm, Number of individual labels: 14

#### B-STIFT - Marker pen

1051993 https://www.phoenixcontact.com/us/products/1051993



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

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https://www.phoenixcontact.com/us/products/1966114



**CRIMPFOX 6 - Crimping pliers** 

1212034

https://www.phoenixcontact.com/us/products/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

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

1205037 https://www.phoenixcontact.com/us/products/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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#### MCV 1,5/ 4-GF-3,5 - PCB header

#### 1843240

https://www.phoenixcontact.com/us/products/1843240



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCV 1,5/..-GF, pitch: 3.5 mm, nounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

#### MC 1,5/ 4-GF-3,5 - PCB header

1843813 https://www.phoenixcontact.com/us/products/1843813



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-GF, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

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MCV 1,5/ 4-GF-3,5 P26 THR - PCB header

1779103

https://www.phoenixcontact.com/us/products/1779103



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCV 1,5/..-GF-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

#### MCV 1,5/ 4-GF-3,5 P14 THRR56 - PCB header

1779983

https://www.phoenixcontact.com/us/products/1779983



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCV 1,5/..-GF-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: 56 mm wide tape, For user information and design recommendations for through-hole reflow technology, go to: Downloads

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#### MC 1,5/ 4-GF-3,5 P26 THR - PCB header

1789203

https://www.phoenixcontact.com/us/products/1789203



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-GF-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

#### MC 1,5/ 4-GF-3,5 P20 THR - PCB header

1789423 https://www.phoenixcontact.com/us/products/1789423



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-GF-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

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https://www.phoenixcontact.com/us/products/1966114



#### MC 1,5/ 4-GF-3,5 P14 THR - PCB header

1789643

https://www.phoenixcontact.com/us/products/1789643



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-GF-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com