

1464110

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PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Socket, number of rows: 1, number of positions: 7, product range: XPC 1,5/..-ST, pitch: 3.5 mm, connection method: Push-X-connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Highly convenient operation thanks to direct, effortless, and tool-free conductor connection
- · Quick connection of all conductor types with and even without ferrules
- · Reliable wiring thanks to acoustic and visual feedback
- · Quick conductor release by simply pressing the orange release button
- · Plug-in compatibility with existing headers of the COMBICON portfolio
- · Quick and convenient testing using integrated test option

Commercial Data

Item number	1464110
Packing unit	50 pc
Minimum order quantity	50 pc
Product Key	AABGAA
GTIN	4063151857219
Weight per Piece (including packing)	2.22 g
Weight per Piece (excluding packing)	2.22 g
Country of origin	DE



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Technical Data

Product properties

Product line	COMBICON Connectors S
Product type	PCB connector
Product family	XPC 1,5/ST
Number of positions	7
Pitch	3.5 mm
Number of rows	1

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2.2 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

Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm ²
Type of contact	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Push-X-connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.34 mm² 1.5 mm²
Conductor cross section flexible	0.5 mm² 1.5 mm²
Conductor cross section AWG	20 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / -
Stripping length	10 mm

Specifications for ferrules without insulating collar



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recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	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
	Cross section: 1.5 mm²; Length: 10 mm
and the state of t	
pecifications for ferrules with insulating collar recommended crimping tool	1212034 CRIMPFOX 6
pecifications for ferrules with insulating collar recommended crimping tool ferrules with insulating collar, according to DIN 46228-4	1212034 CRIMPFOX 6 Cross section: 0.25 mm²; Length: 8 mm
recommended crimping tool	
recommended crimping tool	Cross section: 0.25 mm²; Length: 8 mm

Material specifications

Material data - contact

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)

Material data - housing

Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	26.13 mm
Height [h]	12.46 mm



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Length [I]	19.3 mm
otes	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load
echanical 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
Dull out took	
Pull-out test Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.34 mm² / solid / > 15 N
setpoint/actual value	0.5 mm² / flexible / > 20 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.	8 N
Withdraw strength per pos. approx.	5 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	
Dimension check Specification	IEC 60512-1-2:2002-02
Result	Test passed



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Environmental and real-life conditions

Vibration test		
	Specification	IEC 60068-2-6:2007-12
	Frequency	10 - 150 - 10 Hz

Sweep speed	1 octave/min

Amplitude 0.35 mm (10 Hz ... 60.1 Hz)
Sweep speed 50 m/s² (60.1 Hz ... 150 Hz)

Test duration per axis 2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.2 mΩ
Contact resistance R ₂	2.1 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

Climatic test

Specification	ISO 22479:2019-05
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1~cycle}$
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	16

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

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Specification	IEC 60664-1:2007-04
Insulating material group	l l
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV



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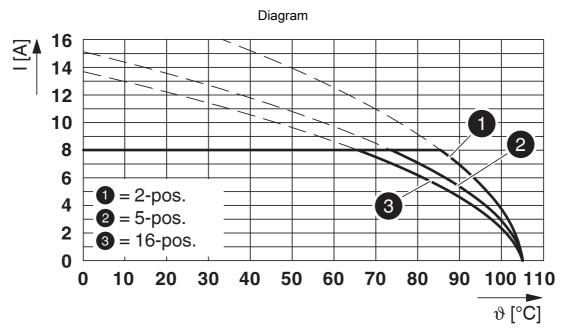
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (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



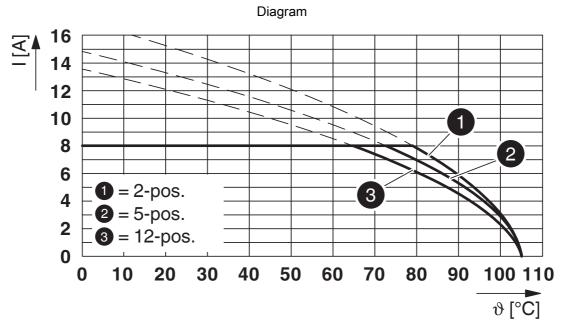
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Drawings



Type: XPC 1,5/...-ST-3,5 with MC 1,5/...-G-3,5 P... THR

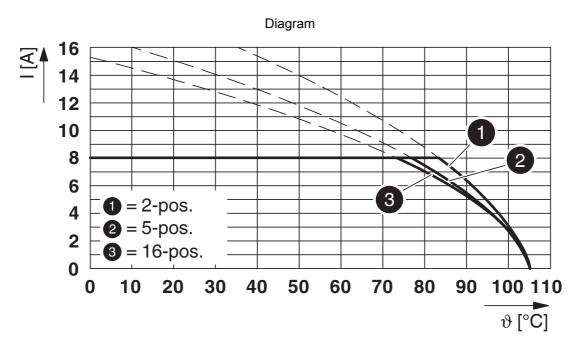


Type: XPC 1,5/...-ST-3,5 with IFMC 1,5/...-ST-3,5



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Type: XPC 1,5/...-ST-3,5 with MCV 1,5/...-G-3,5



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Classifications

ECLASS

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



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Accessories

SZS 0,4X2,5 VDE - Screwdriver

1205037

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Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

IFMC 1,5/ 7-ST-3,5 - Printed-circuit board connector

1844031

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: IFMC 1,5/..-ST, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard



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MCV 1,5/7-G-3,5 P20 THRR56 - PCB header

1780985

https://www.phoenixcontact.com/in/products/1780985



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MCV 1,5/..-G-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: without, mounting: without, type of packaging: 56 mm wide tape, For user information and design recommendations for throughhole reflow technology, go to: Downloads

MC 1,5/ 7-G-3,5 P26 THR - PCB header

1788602

https://www.phoenixcontact.com/in/products/1788602



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-G-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: without, mounting: without, type of packaging: packed in cardboard



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MC 1,5/7-G-3,5 P26 THRR56 - PCB header

1788615

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-G-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: without, mounting: without, type of packaging: 56 mm wide tape

MC 1,5/ 7-G-3,5 - PCB header

1844265

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PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-G, pitch: 3.5 mm, screw head form: L Slotted, 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: without, mounting: without, type of packaging: packed in cardboard



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MCV 1,5/7-G-3,5 - PCB header

1843651

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PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MCV 1,5/..-G, 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: without, mounting: without, type of packaging: packed in cardboard

MCV 1,5/7-G-3,5 P26 THR - PCB header

1779462

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MCV 1,5/..-G-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: without, mounting: without, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads



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MCV 1,5/7-G-3,5 P14 THR - PCB header

1780299

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MCV 1,5/..-G-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: without, mounting: without, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

MC 1,5/ 7-G-3,5 P20 THR - PCB header

1788822

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-G-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: without, mounting: without, type of packaging: packed in cardboard



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MC 1,5/ 7-G-3,5 P14 THR - PCB header

1789041

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-G-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: without, mounting: without, type of packaging: packed in cardboard

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