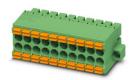


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PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: DFMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON DFMC 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
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Screwable flange for superior mechanical stability

### Commercial data

Item number	1708595
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AABFJB
Product key	AABFJB
GTIN	4055626051208
Weight per piece (including packing)	2.859 g
Weight per piece (excluding packing)	1.889 g
Customs tariff number	85366990
Country of origin	DE



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## Technical data

## Product properties

Product type	PCB connector
Product family	DFMC 1,5/STF
Product line	COMBICON Connectors S
Туре	Plug component
Number of positions	2
Pitch	3.5 mm
Number of connections	4
Number of rows	2
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	2.1 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

Туре	Plug component
Connector system	COMBICON DFMC 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	0.2 Nm

#### Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 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 / 1.6 mm
Stripping length	10 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 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
	Cross section: 1.5 mm²; Length: 10 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm 10 mm
	Cross section: 0.34 mm²; Length: 8 mm 10 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
rerial specifications	Cross section: 0.75 mm²; Length: 10 mm
·	WEEE/RoHS-compliant, free of whiskers according to IEC
aterial data - contact	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
aterial data - contact  Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy
Note  Contact material	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
laterial data - contact  Note  Contact material  Surface characteristics	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
aterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Acterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Acterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  aterial data - housing	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)
aterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  aterial data - housing  Color (Housing)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated  Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)
laterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  aterial data - housing  Color (Housing)  Insulating material	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated  Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)
aterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  aterial data - housing  Color (Housing)  Insulating material  Insulating material group	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated  Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)  black (9005)  PA
Acterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  aterial data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600
laterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  laterial data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated  Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)  black (9005)  PA  I  600  V0
Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  daterial data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn)  black (9005) PA I 600 V0 850
Adaterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Adaterial data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-13  Temperature for the ball pressure test according to EN 60695-10-2	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)  black (9005) PA  I  600 V0 850 775
Adaterial data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Adaterial data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-13  Temperature for the ball pressure test according to EN 60695-	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)  black (9005) PA  I  600 V0 850 775



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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]	14 mm
Height [h]	13.25 mm
Length [I]	23.35 mm

## Mounting

F	lar	ηg	е
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Tightening torque	0.2 Nm
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### 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 setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	$1.5 \text{ mm}^2 / \text{ solid } / > 40 \text{ N}$
	1.5 mm² / flexible / > 40 N

#### Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N



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Test directions

Withdraw strongth per pee engree	2 N
Withdraw strength per pos. approx.	Z IN
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	
Visual inspection Specification	IEC 60512-1-1:2002-02
Result	Test passed
resuit	Test passeu
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental 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)
Acceleration	5g (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 <sub>1</sub>	2.1 mΩ
Contact resistance R <sub>2</sub>	2.4 mΩ
Insertion/withdrawal cycles	25
Climatic test	
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
Shocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms

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

### Electrical tests

### Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	20

#### Insulation resistance

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

#### Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

#### Air clearances and creepage distances |

## Packaging specifications

Type of packaging	packed in cardboard
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