

1105361

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PCB connector, nominal cross section: 2.5 mm², color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: FKIC 2,5/..-STGF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0°, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

## Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Screwable flange for superior mechanical stability
- · Can be combined with the MSTB 2,5 range

#### Commercial data

Item number	1105361
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACFKF
GTIN	4055626974897
Weight per piece (including packing)	13.488 g
Weight per piece (excluding packing)	12.556 g
Customs tariff number	85366990
Country of origin	DE



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## Technical data

## Product properties

Product type	PCB connector
Product family	FKIC 2,5/STGF
Product line	COMBICON Connectors M
Number of positions	8
Pitch	5.08 mm
Number of connections	8
Number of rows	1
Number of potentials	8
Mounting flange	Threaded flange

### Data management status

Article revision	01
7 11 11 10 10 10 10 10 11	0.1

## Electrical properties

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	320 V
Contact resistance	1.7 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Connection data

### Connection technology

Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm²
Contact connection type	Pin

#### Interlock

Locking type	Screw locking mechanism
Mounting flange	Threaded 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 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.0 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
Specifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
recommended crimping tool	1212034 GRIWIFFOX 0
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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface contact area (top layer)	Tin (5 - 7 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
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)
Insulating material	PBT
Insulating material group	I
CTI according to IEC 60112	600

V0

## Dimensions

Flammability rating according to UL 94



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Dimensional drawing	h
Pitch	5.08 mm
Width [w]	50.76 mm
Height [h]	15 mm
Length [I]	27 mm
ounting	
Flange	
Tightening torque	0.3 Nm
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
Conductor connection	IEC 60999-1:1999-11 Test passed
Conductor connection  Specification	
Conductor connection Specification Result	
Conductor connection  Specification  Result  Test for conductor damage and slackening	Test passed
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification	Test passed  IEC 60999-1:1999-11
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result	Test passed  IEC 60999-1:1999-11
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection	Test passed  IEC 60999-1:1999-11  Test passed
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N  0.2 mm² / flexible / > 10 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N  0.2 mm² / flexible / > 10 N  2.5 mm² / solid / > 50 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force setpoint/actual value	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N  0.2 mm² / flexible / > 10 N  2.5 mm² / solid / > 50 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force setpoint/actual value	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N  0.2 mm² / flexible / > 10 N  2.5 mm² / solid / > 50 N  2.5 mm² / flexible / > 50 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force setpoint/actual value  Insertion and withdrawal forces  Specification	Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  0.2 mm² / solid / > 10 N  0.2 mm² / flexible / > 10 N  2.5 mm² / solid / > 50 N  2.5 mm² / flexible / > 50 N
Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test  Specification  Conductor cross section/conductor type/tractive force setpoint/actual value  Insertion and withdrawal forces  Specification  Result	Test passed  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N  IEC 60512-13-2:2006-02 Test passed



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Specification	IEC 60068-2-70:1995-12
Result	Test passed
plarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
sual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
mension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
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	50 m/s² (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R <sub>1</sub>	1.7 mΩ
Contact resistance R <sub>2</sub>	1.7 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
imatic 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	105 °C/168 h
Power-frequency withstand voltage	2.21 kV
nocks	
nocks Specification	IEC 60068-2-27:2008-02
	IEC 60068-2-27:2008-02 Semi-sinusoidal
Specification	
Pulse shape	Semi-sinusoidal



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#### 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	10

#### Insulation resistance

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

#### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	T .
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

## Packaging specifications

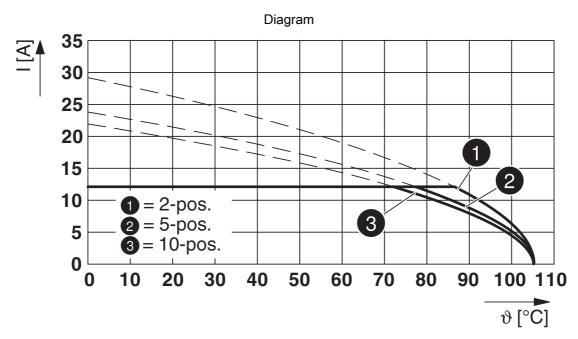
Type of packaging	packed in cardboard
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## Drawings



Type: TFKC 2,5/...-STF-5,08 with FKIC 2,5/...-STGF-5,08



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## Classifications

UNSPSC 21.0

### **ECLASS**

UNSPSC	

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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