

1925728

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FKC 2,5/. .-ST-RF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0°, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard, Article with self-locking flange

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Quick and convenient testing using integrated test option
- · Can be combined with the MSTB 2,5 range
- · Intuitive locking mechanism prevents accidental disconnection

Commercial data

Item number	1925728
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AA03
Product key	AACFBG
Catalog page	Page 275 (C-1-2013)
GTIN	4017918819781
Weight per piece (including packing)	9.751 g
Weight per piece (excluding packing)	9.751 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	FKC 2,5/ST-RF
Product line	COMBICON Connectors M
Туре	Standard
Number of positions	5
Pitch	5.08 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting flange	without

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	0.8 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

Туре	Standard
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

Conductor connection

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
Conductor cross section flexible, with ferrule without plastic	0.25 mm ² 2.5 mm ²



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Material data – actuating element

Color (Actuating element)

sleeve	
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
pecifications for ferrules without insulating collar	
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: 8 mm 10 mm
	Cross section: 2.5 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: 0.5 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
	, 9
	Cross section: 1.5 mm²; Length: 8 mm 10 mm
erial specifications	
erial specifications aterial data - contact	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm
·	Cross section: 1.5 mm²; Length: 8 mm 10 mm
aterial data - contact	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC
aterial data - contact Note	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
aterial data - contact Note Contact material	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy
aterial data - contact Note Contact material Surface characteristics	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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)	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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)
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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)
Aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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)	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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) green (6021)
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	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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) green (6021)
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	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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) green (6021) PA I
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 CTI according to IEC 60112	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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) green (6021) PA I 600
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 CTI according to IEC 60112 Flammability rating according to UL 94	Cross section: 1.5 mm²; Length: 8 mm 10 mm Cross section: 2.5 mm²; Length: 10 mm 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) green (6021) PA I 600 V0

orange (2003)



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Insulating material	PBT
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	5.08 mm
Width [w]	38.34 mm
Height [h]	15 mm
Length [I]	25.23 mm

Notes

General	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.

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
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N



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Ambient temperature (operation)

Ambient temperature (storage/transport)

Relative humidity (storage/transport)
Ambient temperature (assembly)

esistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
olarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Frequency	10 - 150 - 10 Hz
Specification	IEC 60068-2-6:2007-12
Sweep speed	1 octave/min
Sweep speed	
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Amplitude Sweep speed Test duration per axis	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz)
Amplitude Sweep speed Test duration per axis	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz)
Amplitude Sweep speed Test duration per axis Durability test	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h
Amplitude Sweep speed Test duration per axis Durability test Specification	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25 > 5 MΩ
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25 > 5 MΩ ISO 6988:1985-02
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm 3 SO $_2$ on 300 dm 3 /40 °C/1 cycle
Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h IEC 60512-9-1:2010-03 4.8 kV 0.8 mΩ 0.9 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h

-40 °C ... 100 °C (dependent on the derating curve)

-40 °C ... 70 °C

-5 °C ... 100 °C

30 % ... 70 %



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Electrical tests

Thermal test	t Test group ()
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Specification	IEC 60512-5-1:2002-02
Tested number of positions	18

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	1
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)	1.6 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
Type of puckaging	packed in caraboard

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