

1748972

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 32 A, rated voltage (III/2): 1000 V, contact surface: Sn, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: ISPC 5/..-STF, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Screw locking mechanism, mounting method: 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
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Screwable flange for superior mechanical stability
- 600 V UL approval in the smallest of dimensions

Commercial data

Item number	1748972
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFCC
GTIN	4046356312639
Weight per piece (including packing)	12.397 g
Weight per piece (excluding packing)	12.377 g
Customs tariff number	85366990
Country of origin	IN



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Technical data

Product properties

Product type	PCB connector
Product family	ISPC 5/STF
Product line	COMBICON Connectors L
Туре	Inverted
Number of positions	2
Pitch	7.62 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting type	Screw flange

Electrical properties

Properties

Nominal current I_N 32 ANominal voltage U_N 1000 VContact resistance0.55 mΩRated voltage (III/3)1000 VRated surge voltage (III/3)8 kVRated voltage (III/2)1000 VRated voltage (III/2)8 kVRated voltage (III/2)8 kVRated voltage (III/2)6 kV	•	
Contact resistance 0.55 mΩ Rated voltage (III/3) 1000 V Rated surge voltage (III/3) 8 kV Rated voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV Rated voltage (III/2) 1000 V	Nominal current I _N	32 A
Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 1000 V	Nominal voltage U _N	1000 V
Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 8 kV Rated voltage (III/2) 1000 V	Contact resistance	0.55 mΩ
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 1000 V 1000 V	Rated voltage (III/3)	1000 V
Rated surge voltage (III/2) 8 kV Rated voltage (II/2) 1000 V	Rated surge voltage (III/3)	8 kV
Rated voltage (II/2) 1000 V	Rated voltage (III/2)	1000 V
	Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2) 6 kV	Rated voltage (II/2)	1000 V
	Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	Inverted
Connector system	COMBICON PC 5
Nominal cross section	6 mm²
Contact connection type	Pin

Interlock

Locking type	Screw locking mechanism	
Mounting type	Screw flange	
Tightening torque	0.3 Nm 0.7 Nm	

Conductor connection

Connection method	Push-in spring connection	
Conductor/PCB connection direction	0 °	
Conductor cross-section rigid	0.2 mm² 10 mm²	
Conductor cross-section flexible	0.2 mm² 6 mm²	



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24 8 0.25 mm² 6 mm² 0.25 mm² 4 mm² 0.25 mm² 1.5 mm² 4.3 mm x 4.0 mm / 4.0 mm 15 mm
0.25 mm ² 4 mm ² 0.25 mm ² 1.5 mm ² 4.3 mm x 4.0 mm / 4.0 mm
0.25 mm ² 1.5 mm ² 4.3 mm x 4.0 mm / 4.0 mm
4.3 mm x 4.0 mm / 4.0 mm
15 mm
1212034 CRIMPFOX 6
1213144 CRIMPFOX CENTRUS 6S
1213146 CRIMPFOX CENTRUS 6H
Cross section: 0.5 mm²; Length: 10 mm 15 mm
Cross section: 0.75 mm²; Length: 10 mm 15 mm
Cross section: 1 mm²; Length: 10 mm 15 mm
Cross section: 1.5 mm²; Length: 12 mm 15 mm
Cross section: 2.5 mm²; Length: 12 mm 15 mm
Cross section: 4 mm²; Length: 12 mm 15 mm
Cross section: 6 mm²; Length: 12 mm 15 mm
1212034 CRIMPFOX 6
1213144 CRIMPFOX CENTRUS 6S
1213146 CRIMPFOX CENTRUS 6H
Cross section: 0.5 mm²; Length: 10 mm 15 mm
Cross section: 0.75 mm²; Length: 12 mm 15 mm
Cross section: 1 mm²; Length: 12 mm 15 mm
Cross section: 1.5 mm²; Length: 12 mm 15 mm
Cross section: 2.5 mm²; Length: 12 mm 15 mm
Cross section: 4 mm²; Length: 12 mm 15 mm

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 (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600



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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

D

Dimensional drawing	h
Pitch	7.62 mm
Width [w]	30.46 mm
Height [h]	19.8 mm
Length [I]	40.5 mm

Mounting

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Tightening torque	0.3 Nm 0.7 Nm

Notes

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.

Mechanical tests

Conductor connection Specification

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			

IEC 60999-1:1999-11

Test passed

Result 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		
	10 mm² / solid / > 90 N		



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sertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7.5 N
Withdraw strength per pos. approx.	5 N
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
imension check	
Specification	IEC 60512-1-2:2002-02
Result rironmental and real-life conditions	IEC 60512-1-2:2002-02 Test passed
Result vironmental and real-life conditions ibration test	Test passed
Result vironmental and real-life conditions libration test Specification	
Result vironmental and real-life conditions ibration test Specification Frequency	Test passed IEC 60068-2-6:2007-12
Result vironmental and real-life conditions libration test Specification Frequency Sweep speed	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
Result vironmental and real-life conditions ibration test Specification Frequency	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
Result vironmental and real-life conditions libration test Specification Frequency Sweep speed Amplitude Acceleration	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz)
Result vironmental and real-life conditions fibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h
Result vironmental and real-life conditions fibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions urability test Specification	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Result rironmental and real-life conditions fibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions furability test Specification Impulse withstand voltage at sea level	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV 0.55 mΩ
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions furability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV 0.55 mΩ 0.6 mΩ
Result vironmental and real-life conditions fibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions furability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV 0.55 mΩ 0.6 mΩ
Result vironmental and real-life conditions ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions vurability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV 0.55 mΩ 0.6 mΩ 25
Result Pironmental and real-life conditions Tibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Test directions	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 9.8 kV 0.55 mΩ 0.6 mΩ 25



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Ambient conditions

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	12	

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	>10 ¹² Ω

Temperature cycles

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

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Packaging specifications

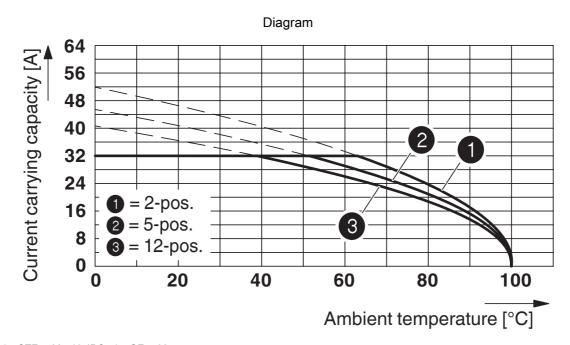
Type of packaging	packed in cardboard
,, , , , , , , , , , , , , , , , , , ,	•



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Drawings



Type: ISPC 5/...-STF-7,62 with IPC 5/...-GF-7,62



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1748972

c 711 us	cULus Recognized Approval ID: E60425-19920722				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		600 V	35 A	24 - 8	-
С					
		600 V	35 A	24 - 8	-



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
ETIM			
	ETIM 9.0	EC002638	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

EU RoHS

20 1010			
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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