

1748875

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Sn, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: ISPC 5/..-STGCL, 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: Clip locking, mounting: Click & Lock latching window, 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
- Standard header also suitable for connectors with automatically locking Click and Lock system
- 600 V UL approval in the smallest of dimensions

Commercial data

Item number	1748875
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFCA
Catalog page	Page 534 (C-1-2013)
GTIN	4046356312523
Weight per piece (including packing)	14.39 g
Weight per piece (excluding packing)	13.526 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/STGCL
Product line	COMBICON Connectors L
Туре	Inverted
Number of positions	3
Pitch	7.62 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Mounting flange	Click & Lock latching window
Data management status	
Article revision	03

Electrical properties

Nominal current I _N	41 A
Nominal voltage U _N	1000 V
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 (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

Mounting flange Click & Lock latching window	Locking type	Clip locking
	Mounting flange	Click & Lock latching window

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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Conductor cross section AWG	24 8
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	15 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules without insulating collar, according to DIN 46228-1	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 mm ² ; Length: 12 mm 15 mm
	Cross section: 2.5 mm ² ; Length: 12 mm 15 mm
	Cross section: 4 mm ² ; Length: 12 mm 15 mm
	Cross section: 6 mm²; Length: 12 mm 15 mm
Specifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules with insulating collar, according to DIN 46228-4	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 mm ² ; Length: 12 mm 15 mm
terial specifications	
Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC

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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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Result

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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
mensions	
Dimensional drawing	h
Pitch	7.62 mm
Width [w]	25.66 mm
Height [h]	19.8 mm
Length [I]	40.5 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
. Cook	root passoca
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	10 mm² / solid / > 90 N
	6 mm² / flexible / > 80 N
	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
Insertion and withdrawal forces	
Insertion and withdrawal forces	IEC 60512 12 2:2006 02
Specification	IEC 60512-13-2:2006-02

Test passed



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	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 60512-7:1993-08 (Polarization)
Result	Test passed
iqual increation	
isual inspection Specification	IEC 60512-1-1:2002-02
Result	Test passed
Nesull	i esi passeu
imension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Frequency	10 - 150 - 10 Hz
Specification	IEC 60068-2-6:1995-03
	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Amplitude Acceleration	5g (60.1 Hz 150 Hz)
Amplitude Acceleration Test duration per axis	5g (60.1 Hz 150 Hz) 2.5 h
Amplitude Acceleration	5g (60.1 Hz 150 Hz)
Amplitude Acceleration Test duration per axis Test directions urability test	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Amplitude Acceleration Test duration per axis Test directions urability test Specification	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles limatic test Specification Corrosive stress	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle
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	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles limatic test Specification Corrosive stress	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle
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 Specification Corrosive stress Thermal stress	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h
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 Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h
Amplitude Acceleration Test duration per axis Test directions Purability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Plimatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h 4.26 kV
Amplitude Acceleration Test duration per axis Test directions urability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles limatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage mbient conditions Ambient temperature (operation)	5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-5:1992-08 9.8 kV 0.55 mΩ 0.6 mΩ 25 ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 100 °C/168 h 4.26 kV -40 °C 100 °C (dependent on the derating curve)



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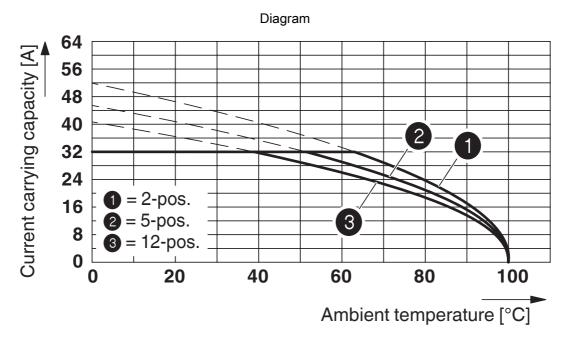
Ambient temperature (assembly)	-5 °C 100 °C
Electrical tests	
Libertical tools	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	$10^{12}\Omega$
Temperature cycles	
Specification	IEC 60999-1:1999-11
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
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



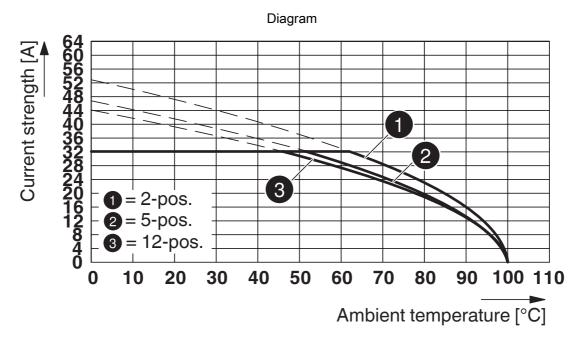
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Drawings



Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62

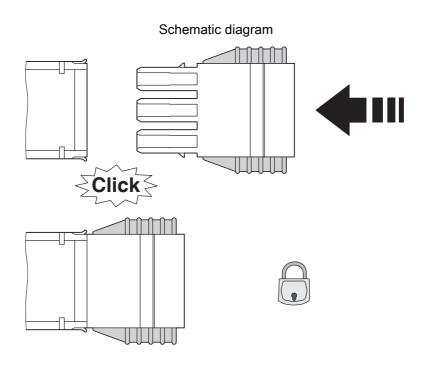


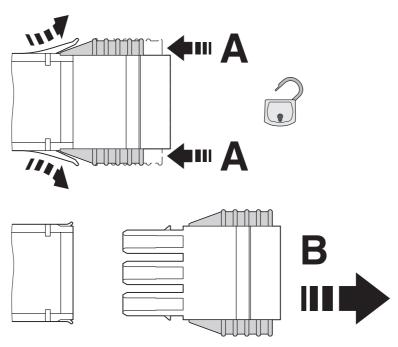
Type: SPC 5/...-STCL-7,62 with ISPC 5/...-STGCL-7,62



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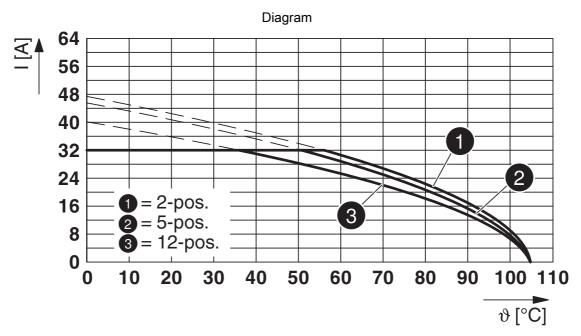


Click and Lock system method of operation



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Type: PC 5/...-STCL1-7,62 with ISPC 5/...-STGCL-7,62



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1748875

CULus Recognized Approval ID: E60425-19920722					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	600 V	35 A	24 - 8	-	
Use group C					
	600 V	35 A	24 - 8	-	



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202
ETIM	
ETIM 9.0	EC002638
UNSPSC	

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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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