

1778081

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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: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 5/..-STCL1, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting method: Click & Lock latching slide, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- 600 V UL approval in the smallest of dimensions
- The automatically locking Click and Lock system prevents accidental disconnection

Commercial data

Item number	1778081
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADABE
GTIN	4046356523219
Weight per piece (including packing)	19.034 g
Weight per piece (excluding packing)	17.867 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	PC 5/STCL1
Product line	COMBICON Connectors L
Туре	Standard
Number of positions	4
Pitch	7.62 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting type	Click & Lock latching slide

Electrical properties

Properties

Nominal current I_N 32 ANominal voltage U_N 1000 VContact resistance0.5 mΩRated voltage (III/3)1000 VRated surge voltage (III/3)8 kV
Contact resistance $0.5 \text{ m}\Omega$ Rated voltage (III/3) 1000 V
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	Standard
Connector system	COMBICON PC 5
Nominal cross section	6 mm²
Contact connection type	Socket

Interlock

Locking type	Clip locking
Mounting type	Click & Lock latching slide

Conductor connection

Conductor Commodation	
Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 10 mm²
Conductor cross-section flexible	0.2 mm² 6 mm²
Conductor cross-section AWG	24 10



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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 same cross section, solid	0.2 mm ² 2.5 mm ²
2 conductors with same cross section, flexible	0.2 mm² 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm² 2.5 mm²
Cylindrical gauge a x b / diameter	3.6 mm x 3.1 mm / 3.4 mm
Stripping length	10 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.5 Nm 0.8 Nm

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	hot-dip 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	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

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

Dimensions



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Dimensional drawing	
	h
Pitch	7.62 mm
Width [w]	38.63 mm
Height [h]	19.7 mm
Length [I]	35.3 mm
res	
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.
chanical tests	
est for conductor damage and slackening Specification	IEC 60999-1:1999-11
Result	Test passed
Toodin Toodin	Test passes
dull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
osponiusciai raiso	0.2 mm² / flexible / > 10 N
	10 mm² / solid / > 90 N 6 mm² / flexible / > 80 N
	6 mm-/ flexible / > 80 N
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	6 N
A British Control of the Control of	2 N
Withdraw strength per pos. approx.	
Forque test Specification	IEC 60999-1:1999-11
orque test	IEC 60999-1:1999-11
orque test Specification	IEC 60999-1:1999-11 IEC 60068-2-70:1995-12
Specification desistance of inscriptions	
Specification Resistance of inscriptions Specification	IEC 60068-2-70:1995-12
Specification Resistance of inscriptions Specification Result	IEC 60068-2-70:1995-12



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Specification	IEC 60512-1-1:2002-02
Result	Test passed
nancian chael	
nension check Specification	IEC 60512-1-2:2002-02
Result	Test passed
ronmental and real-life conditions	
pration 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
Test directions	X-, Y- and Z-axis (pos. and neg.)
rability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.6 mΩ
Insertion/withdrawal cycles	25
matic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	4.26 kV
ocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
abient 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 %

-5 °C ... 100 °C

Electrical tests

Thermal test | Test group C

Ambient temperature (assembly)



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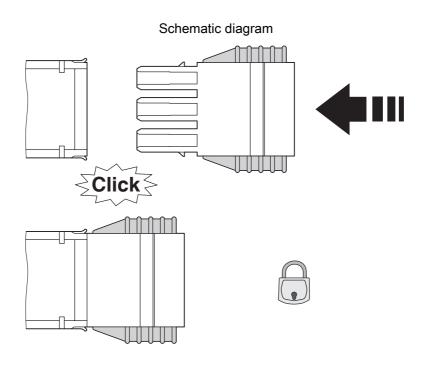
IEC 60512-5-1:2002-02
120 00312-3-1.2002-02
12
IEC 60512-3-1:2002-02
> 5 MΩ
IEC 60664-1:2007-04
T .
CTI 600
1000 V
8 kV
8 mm
12.5 mm
1000 V
8 kV
8 mm
8 mm
1000 V
6 kV
5.5 mm
5.5 mm

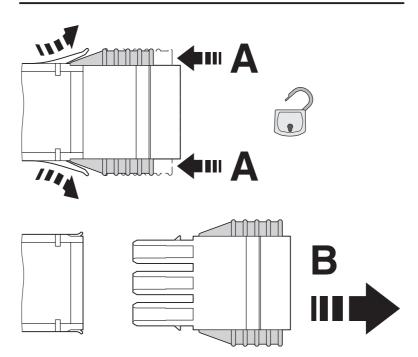
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Drawings



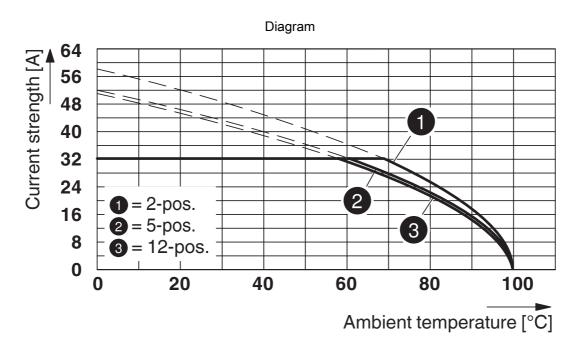


Click and Lock system method of operation

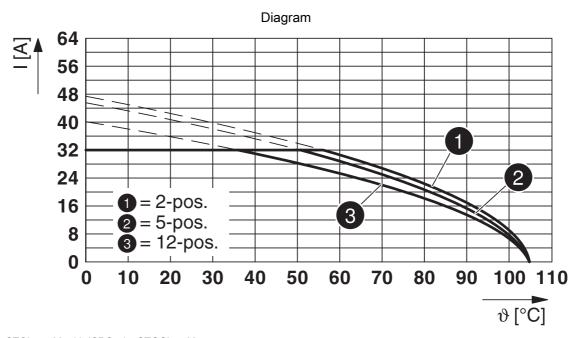


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Type: PC 5/...-STCL1-7,62 with IPC 5/...-STGCL-7,62



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



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Approvals

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cULus Recogniz Approval ID: E60425-	CULus Recognized Approval ID: E60425-19920722					
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²		
В						
Multi-conductor connection	600 V	41 A	24 - 12	-		
Screw connection	600 V	41 A	24 - 8	-		
С						
Multi-conductor connection	600 V	41 A	24 - 12	-		
Screw connection	600 V	41 A	24 - 8	-		



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Classifications

ECLASS

	ECLASS-13.0	27460202			
	ECLASS-15.0	27460202			
ETIM					
	ETIM 9.0	EC002638			
UN	ISPSC				

UNSPSC 21.0 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%
EF3.0 Climate Change	
CO2e kg	0.134 kg CO2e

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