1718520

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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: Tin, contact connection type: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: SPC 5/..-STCL, 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 slide, 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
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · The automatically locking Click and Lock system prevents accidental disconnection
- 600 V UL approval in the smallest of dimensions

Commercial data

Item number	1718520
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFBF
Catalog page	Page 531 (C-1-2013)
GTIN	4046356175197
Weight per piece (including packing)	30.603 g
Weight per piece (excluding packing)	30.603 g
Customs tariff number	85366990
Country of origin	IN



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Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors L
Product type	PCB connector
Product family	SPC 5/STCL
Number of positions	6
Pitch	7.62 mm
Number of connections	6
Number of rows	1
Mounting flange	Click & Lock latching slide
Number of potentials	6

Electrical properties

Nominal current I _N	41 A
Nominal voltage U _N	1000 V
Degree of pollution	3
Contact resistance	0.8 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	Standard	
Connector system	COMBICON PC 5	
Nominal cross section	6 mm ²	
Contact connection type	Socket	
Interlock		
Locking type	Clip locking	
Mounting flange	Click & Lock latching slide	
Conductor connection		

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 10 mm ²
Conductor cross section flexible	0.2 mm ² 6 mm ²
Conductor cross section AWG	24 8
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 6 mm²

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm ² 1.5 mm ²
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 mm ² ; Length: 10 mm 15 mm
	Cross section: 0.75 mm ² ; Length: 10 mm 15 mm
	Cross section: 1 mm ² ; 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 mm ² ; 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 mm ² ; Length: 10 mm 15 mm
	Cross section: 0.75 mm ² ; Length: 12 mm 15 mm
	Cross section: 1 mm ² ; Length: 12 mm 15 mm
	Cross section: 1.5 mm ² ; Length: 12 mm 15 mm

Material specifications

lote	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)
aterial data - housing Color (Housing)	green (6021)
•	green (6021) PA
Color (Housing)	
Color (Housing) Insulating material	



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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)
Color (Actuating element) Insulating material	orange (2003) PA
Insulating material	

Dimensions

Dimensional drawing	h w
Pitch	7.62 mm
Width [w]	53.72 mm
Height [h]	19.8 mm
Length [I]	38.45 mm

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	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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N

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	10 mm² / solid / > 90 N
	6 mm² / flexible / > 80 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

 Vibration test
 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)

 Sweep speed
 5g (60.1 Hz ... 150 Hz)

 Test duration per axis
 2.5 h

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	0.8 mΩ
Contact resistance R ₂	0.8 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ

Climatic 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	3.31 kV



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mbient 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
trical tests	
ermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
mperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	СТІ 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

Packaging specifications

packed in cardboard

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