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PCB connector, nominal cross section: 16 mm<sup>2</sup>, color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: SPC 16/..-ST, pitch: 10.16 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: without, mounting: without, 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

#### Commercial data

Item number	1711268
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA05
Product key	AAEFAA
Catalog page	Page 562 (C-1-2013)
GTIN	4046356080842
Weight per piece (including packing)	17.312 g
Weight per piece (excluding packing)	15.863 g
Customs tariff number	85366990
Country of origin	IN



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## Technical data

### Product properties

Туре	Standard
Product line	COMBICON Connectors XL
Product type	PCB connector
Product family	SPC 16/ST
Number of positions	2
Pitch	10.16 mm
Number of connections	2
Number of rows	1
Mounting flange	without
Number of potentials	2

### Electrical properties

Nominal current I <sub>N</sub>	76 A
Nominal voltage U <sub>N</sub>	1000 V
Degree of pollution	3
Contact resistance	0.5 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 16
Nominal cross section	16 mm²
Contact connection type	Socket

#### Interlock

Locking type	without
Mounting flange	without

#### Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.75 mm² 16 mm²
Conductor cross section flexible	0.75 mm² 16 mm²
Conductor cross section AWG	18 4
Conductor cross section flexible, with ferrule without plastic	0.75 mm² 16 mm²



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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm <sup>2</sup> 10 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm <sup>2</sup> 4 mm <sup>2</sup>
Cylindrical gauge a x b / diameter	- / 5.4 mm
Stripping length	18 mm

### 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	Silver-plated strip
Metal surface terminal point (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)

#### 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

#### **Dimensions**

Dimensional drawing	h
Pitch	10.16 mm
Width [w]	20.32 mm
Height [h]	25.1 mm
Length [I]	44.5 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



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Conductor	connection

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
Dull out toot	
Pull-out test  Specification	IEC 60999-1:1999-11
Specification	0.75 mm² / solid / > 30 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.75 mm² / flexible / > 30 N
	16 mm² / solid / > 100 N
	16 mm² / flexible / > 100 N
	TO THIS / HEALDIE / P TOO IN
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	7 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
roout	i ost passou

### Environmental and real-life conditions

#### Vibration 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)



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Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
rability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R <sub>1</sub>	0.5 mΩ
Contact resistance R <sub>2</sub>	0.5 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ
natic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	4.26 kV
nbient 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 %
	30 % 70 % -5 °C 100 °C
Ambient temperature (assembly)  trical tests  ermal test   Test group C	-5 °C 100 °C
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification	-5 °C 100 °C  IEC 60512-5-1:2002-02
Ambient temperature (assembly)  crical tests  ermal test   Test group C  Specification	-5 °C 100 °C
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions	-5 °C 100 °C  IEC 60512-5-1:2002-02
Ambient temperature (assembly)  crical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance	-5 °C 100 °C  IEC 60512-5-1:2002-02
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification	-5 °C 100 °C  IEC 60512-5-1:2002-02 9
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 ΜΩ
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 ΜΩ  IEC 60999-1:1999-11
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result  clearances and creepage distances	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 ΜΩ  IEC 60999-1:1999-11
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result  clearances and creepage distances    Specification	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result  clearances and creepage distances    Specification  Insulating material group	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  ulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result  clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04 I
Relative humidity (storage/transport)  Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04 I CTI 600
Ambient temperature (assembly)  trical tests  ermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  mperature cycles  Specification  Result  clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04 I CTI 600 1000 V
Ambient temperature (assembly)  Itrical tests  Iternal test   Test group C  Specification  Tested number of positions  Iterated number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Insulation resistance  Specification  Result  Iterated number of positions  Insulation resistance  Specification  Result  Iterated number of positions  Insulation resistance  Insulation resistance  Insulation (IEC 60112)  Insulation voltage (III/3)	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04 I CTI 600 1000 V 8 kV
Ambient temperature (assembly)  Itrical tests  Iternal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Insulation resistance    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  minimum clearance value - non-homogenous field (III/3)	-5 °C 100 °C  IEC 60512-5-1:2002-02 9  IEC 60512-3-1:2002-02 > 5 MΩ  IEC 60999-1:1999-11 Test passed  IEC 60664-1:2007-04 I CTI 600 1000 V 8 kV 8 mm



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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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## Classifications

UNSPSC 21.0

#### **ECLASS**

27460202
27460202
27460202
EC002638

39121400



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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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