

1704176

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PCB connector, nominal cross section: 1.5 mm², color: red, nominal current: 12 A, rated voltage (III/2): 400 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: PT 1,5/..-PVH-A, pitch: 5 mm, connection method: Screw connection with wire protector, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,3, locking: without, mounting method: without, type of packaging: packed in cardboard

# Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · High terminal block capacity thanks to rectangular terminal block space
- · Allows connection of two conductors
- · Horizontal and vertical connection option for optimum conductor routing
- Items that can be aligned in various pitches support flexible and space-saving PCB assembly

#### Commercial data

Item number	1704176
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Product key	AABAJC
GTIN	4046356680820
Weight per piece (including packing)	4.76 g
Weight per piece (excluding packing)	4.728 g
Country of origin	CN



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# Technical data

## Product properties

Product type	PCB connector
Product family	PT 1,5/PVH-A
Product line	COMBICON Connectors S
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4

## Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	400 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

### Connection data

### Connection technology

Туре	PC termination block
Connector system	COMBICON PST 1,3
Nominal cross section	1.5 mm²
Contact connection type	Socket

#### Interlock

Locking type	without
Mounting type	without

## Conductor connection

Connection method	Screw connection with wire protector
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	26 14
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> 0.75 mm <sup>2</sup>



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2 conductors with same cross section, flexible	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.75 mm²
Stripping length	5 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.4 Nm 0.4 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
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)	red (3001)
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	5 mm
Width [w]	20 mm
Height [h]	11.4 mm
Length [I]	15 mm

## Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C



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Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

### Electrical tests

#### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
•	1
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Note on connection cross section	With connected conductor 2.5 mm² (solid).
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

## Packaging specifications

Type of packaging	packed in cardboard
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# **Approvals**

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CULus Recog Approval ID: E60	CULus Recognized Approval ID: E60425-20030211			
	Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В				
	300 V	15 A	26 - 12	-
D				
	300 V	10 A	26 - 12	-



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# Classifications

### **ECLASS**

	ECLASS-13.0	27460202		
	ECLASS-15.0	27460202		
ETIM				
	ETIM 9.0	EC002638		
LINODOO				
UNSPSC				
	UNSPSC 21.0	39121409		



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# Environmental product compliance

#### EU RoHS

	616		
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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