

1475114

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 16 A, rated voltage (III/2): 320 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: ICC..-PPC2,5/..-5,0, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: ICC 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard, Color of the spring lever: orange

Your advantages

- · Time saving push-in connection, tools not required
- · Variable coding, for reliable protection against incorrect connection
- · Push-in technology for quick and easy wiring
- · Quick and easily coded when initially connecting the connector and header
- · Intuitive operation due to color-coded actuating push button

Commercial data

Item number	1475114
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	ACHAFC
Product key	ACHAFC
GTIN	4063151887834
Weight per piece (including packing)	5.2 g
Weight per piece (excluding packing)	4.45 g
Country of origin	CN



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Technical data

Product properties

Product type	PCB connector
Product family	ICCPPC2,5/5,0
Туре	Standard
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 _N	16 A
Nominal voltage U _N	320 V
Contact resistance	1.56 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 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

Connector system	ICC 2,5
Nominal cross section	2.5 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	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
2 conductors with same cross section, flexible, with ferrule	0.25 mm² 0.34 mm²



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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	10 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	Tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (Sn)
Metal surface soldering area (middle layer)	Nickel (Ni)

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

Color (Actuating element)	orange (2003)
Insulating material	PBT GF
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	5 mm
Width [w]	19.95 mm
Height [h]	15 mm
Length [I]	22 mm



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Notes

Coding	For details, refer to the product drawing in the "Downloads" tab.
afety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	 WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	 The item is intended to be an unencapsulated plug for installation in a housing.
	Operate the connector only when it is fully plugged in.

Mechanical tests

Test for conductor damage and slackening

Withdraw strength per pos. approx.

IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
0.2 mm² / solid / > 10 N
0.2 mm² / flexible / > 10 N
$2.5 \text{ mm}^2 / \text{ solid } / > 50 \text{ N}$
2.5 mm² / flexible / > 50 N
IEC 60512-13-2:2006-02
Test passed
25
12 N

Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed

11 N



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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

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

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.56 mΩ
Contact resistance R ₂	1.59 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 1 TΩ

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm}^3~\mathrm{SO}_2$ on 300 $\mathrm{dm}^3/40~^\circ\mathrm{C}/1$ cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 kV

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Electrical tests

Thermal test | Test group C

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Specification	IEC 60512-5-1:2002-02



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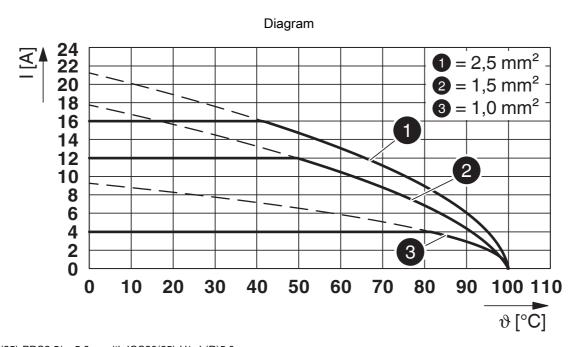
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 1 TΩ
clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	1.6 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 mm



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Drawings



 $\label{type: ICC20(25)-PPC2,5/...-5,0-...} Type: ICC20(25)-PPC2,5/...-5,0-... with ICC20(25)-H/...L(R)5,0-...$



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Classifications

ECLASS

	ECLASS-13.0	27460202
ΕΊ	TIM	
	ETIM 9.0	EC002638



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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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