

1848600

https://www.phoenixcontact.com/us/products/1848600

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 400 V, contact surface: Tin, contact connection type: Socket, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: PTS 1,5/. .-PH CLIP, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,3, locking: 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
- · Intuitive operation due to color-coded actuating push button
- · Can be snapped into device housing thanks to CLIP geometry
- · Largest possible clamping space in a small component size

Commercial data

Item number	1848600
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABFRB
GTIN	4055626282374
Weight per piece (including packing)	6.38 g
Weight per piece (excluding packing)	2.23 g
Customs tariff number	85366990
Country of origin	BG



1848600

https://www.phoenixcontact.com/us/products/1848600

Technical data

Product properties

Product line	COMBICON Connectors S
Product type	PCB connector
Product family	PTS 1,5/PH CLIP
Number of positions	9
Pitch	5 mm
Number of connections	9
Number of rows	1
Number of potentials	9

Electrical properties

Nominal current I _N	10 A
Nominal voltage U_N	400 V
Degree of pollution	3
Contact resistance	1.6 mΩ
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

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

Interlock

Locking type	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	26 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	8 mm



1848600

https://www.phoenixcontact.com/us/products/1848600

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

Color (Actuating element)	orange (2003)
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]	45 mm
Height [h]	14.25 mm
Length [I]	15.21 mm

Mechanical tests



1848600

https://www.phoenixcontact.com/us/products/1848600

Specification	IEC 60999-1:1999-11
Result	Test passed
est 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
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	5 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
1 COURT	1001 pa0004
Dimension check	
Specification	IEC 60512-1-2:2002-02 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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test



1848600

https://www.phoenixcontact.com/us/products/1848600

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.6 mΩ
Contact resistance R ₂	1.7 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic 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	2.21 kV
mbient 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 %
Ambient temperature (assembly)	-5 °C 100 °C
hermal test Test group C	
hermal test Test group C Specification	IEC 60512-5-1:2002-02
	IEC 60512-5-1:2002-02
Specification	
Specification Tested number of positions	
Specification Tested number of positions sulation resistance	12
Specification Tested number of positions sulation resistance Specification	12 IEC 60512-3-1:2002-02
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	12 IEC 60512-3-1:2002-02
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles	12 IEC 60512-3-1:2002-02 > 5 MΩ
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances Specification	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances Specification Insulating material group	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances 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)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances 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) minimum creepage distance (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances 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) minimum creepage distance (III/3) Rated insulation voltage (III/2)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm 400 V
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances 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) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm 400 V 4 kV
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result ir clearances and creepage distances 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) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum clearance value - non-homogenous field (III/2)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60999-1:1999-11 Test passed IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm 400 V 4 kV 3 mm



1848600

https://www.phoenixcontact.com/us/products/1848600

Type of packaging

	minimum clearance value - non-homogenous field (II/2)	3 mm
	minimum creepage distance (II/2)	3.2 mm
Pad	ckaging specifications	

packed in cardboard

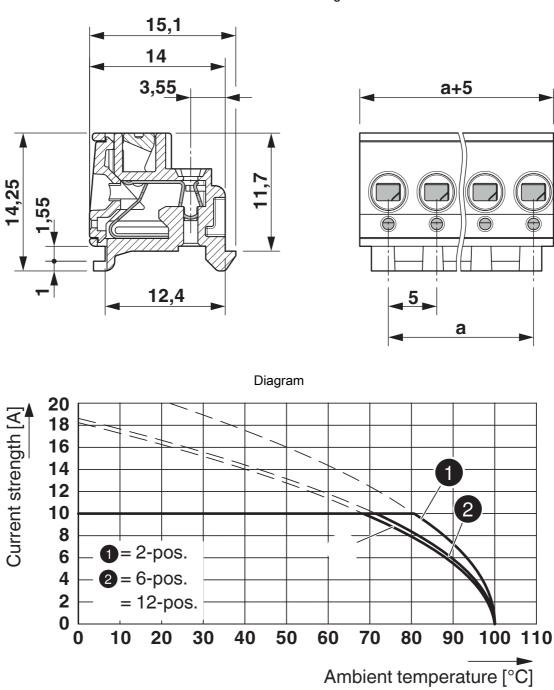


1848600

https://www.phoenixcontact.com/us/products/1848600

Drawings

Dimensional drawing



Type: PTS 1,5/...-PH-5,0 CLIP with PST 1,3/...-5,0



1848600

https://www.phoenixcontact.com/us/products/1848600

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1848600

cULus Recognized Approval ID: E60425-20030211				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	7 A	26 - 14	-
Use group D				
	300 V	7 A	26 - 14	-

VDE	VDE Gutachten mit Fertigungsüberwachung Approval ID: 40040542				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		320 V	10 A	-	0.2 - 2.5



1848600

https://www.phoenixcontact.com/us/products/1848600

Classifications

ECLASS

	ECLASS-11.0	27460202		
	ECLASS-12.0	27460202		
	ECLASS-13.0	27460202		
ET	ETIM			
	IIVI			
	ETIM 9.0	EC002638		
UN	NSPSC			
	UNSPSC 21.0	39121400		



1848600

https://www.phoenixcontact.com/us/products/1848600

Environmental product compliance

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



1848600

https://www.phoenixcontact.com/us/products/1848600

Accessories

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

PST 1,3/ 9-5,0 - Pin strip

1933257

https://www.phoenixcontact.com/us/products/1933257



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: PST 1,3/..-V, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: packed in cardboard, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.



1848600

https://www.phoenixcontact.com/us/products/1848600

PST 1,3/9-H-5,0 - Pin strip

1717327

https://www.phoenixcontact.com/us/products/1717327



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: PST 1,3/..-H, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 6.8 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: packed in cardboard, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

PST 1,3/9-5,0 R72 - Pin strip

1845564

https://www.phoenixcontact.com/us/products/1845564



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: PST 1,3/..-V, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: 72 mm wide tape, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com