

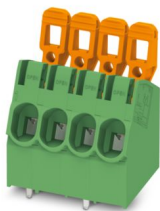
PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

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 terminal block, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of potentials: 6, number of rows: 1, number of positions per row: 6, product range: PLA 5/, pitch: 7.5 mm, connection method: Push-lock spring connection, mounting: Wave soldering, conductor/PCB connection direction: 30 °, color: green, Pin layout: Zigzag pinning M, Solder pin [P]: 3.6 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Quick and convenient testing using integrated test option

Commercial data

Item number	1792261
Packing unit	1 pc
Sales key	AA14
Product key	AANTAA
Catalog page	Page 471 (C-1-2013)
GTIN	4046356610452
Weight per piece (including packing)	26.308 g
Weight per piece (excluding packing)	22.2 g
Customs tariff number	85369010
Country of origin	SK

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Technical data

Product properties

Product line	COMBICON Terminals L
Product type	Printed circuit board terminal
Product family	PLA 5/
Number of positions	6
Pitch	7.5 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Pin layout	Zigzag pinning M
Solder pins per potential	1

Electrical properties

Nominal current I_N	41 A
Nominal voltage U_N	1000 V
Degree of pollution	3
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

Nominal cross section	6 mm ²
-----------------------	-------------------

Conductor connection

Connection method	Push-lock spring connection
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 6 mm ²
Conductor cross section AWG	24 ... 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² ... 6 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm ² ... 6 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Stripping length	12 mm

Mounting

Mounting type	Wave soldering
Pin layout	Zigzag pinning M

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Connection method	Push-lock spring connection
-------------------	-----------------------------

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 (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 µm Sn)

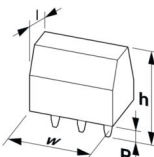
Material data - housing

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

Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	
Pitch	7.5 mm
Width [w]	46 mm
Height [h]	32.1 mm
Length [l]	26.4 mm
Installed height	28.5 mm
Solder pin length [P]	3.6 mm
Pin dimensions	1.2 x 1.5 mm

PCB design

Pin spacing	12.5 mm
-------------	---------

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Hole diameter	2 mm
---------------	------

Mechanical tests

Connection test

Specification	IEC 60998-2-2:2002-12
Result	Test passed

Test for conductor damage and slackening

Specification	IEC 60998-2-2:2002-12
Result	Test passed

Pull-out test

Specification	IEC 60998-2-2:2002-12
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	6 mm ² / solid / > 80 N
	6 mm ² / flexible / > 80 N

Flexion test

Specification	IEC 60998-2-2:2002-12
Result	Test passed

Insulation holder for crimp connections

Result	Test passed
--------	-------------

Electrical tests

Temperature-rise test

Specification	IEC 60998-2-1:2002-12
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 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)	5 mm

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

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 mm

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

Glow-wire test

Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s

Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

PLA 5/ 6-7,5-ZF - PCB terminal block

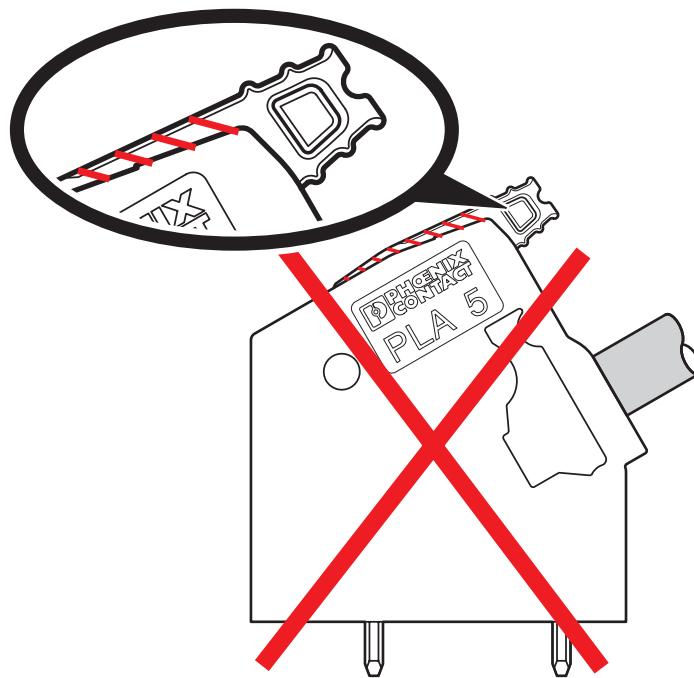
1792261

<https://www.phoenixcontact.com/us/products/1792261>

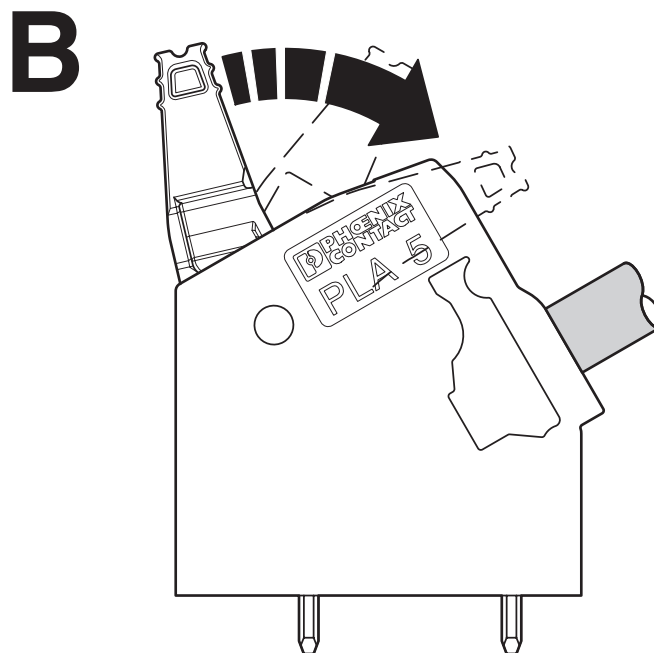


Drawings

Functional drawing



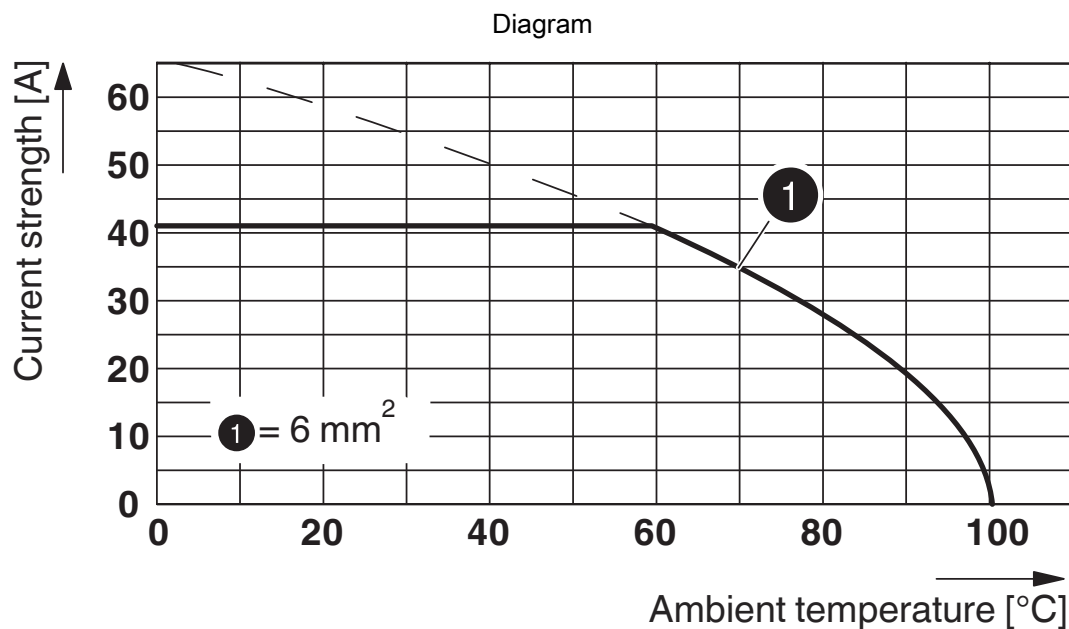
Functional drawing



PLA 5/ 6-7,5-ZF - PCB terminal block

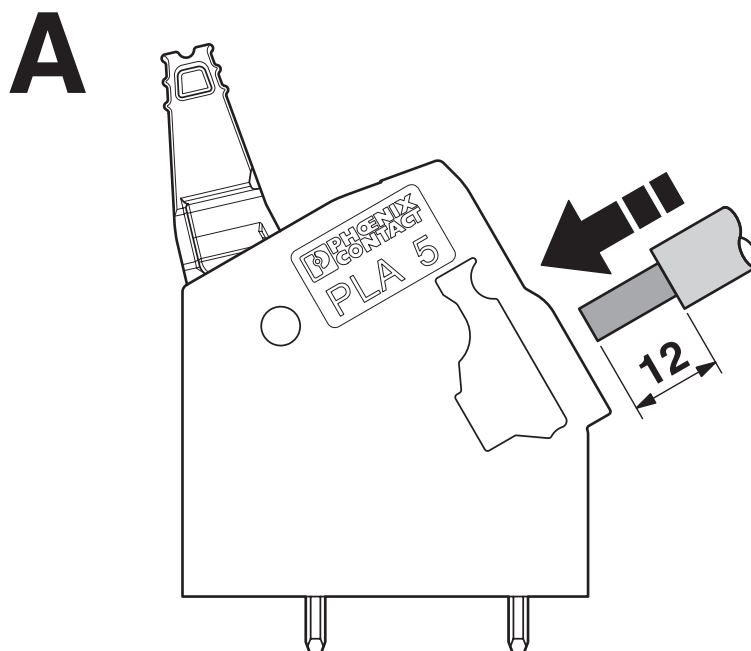
1792261

<https://www.phoenixcontact.com/us/products/1792261>



Type: PLA 5/...-7,5-(ZF)

Functional drawing

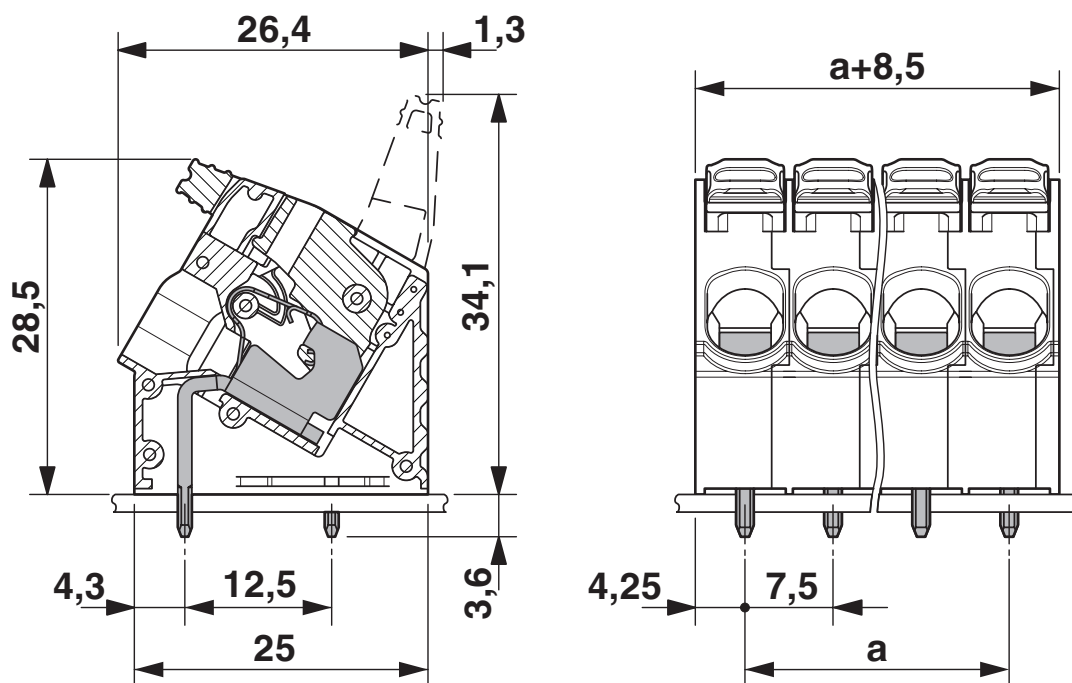


PLA 5/ 6-7,5-ZF - PCB terminal block

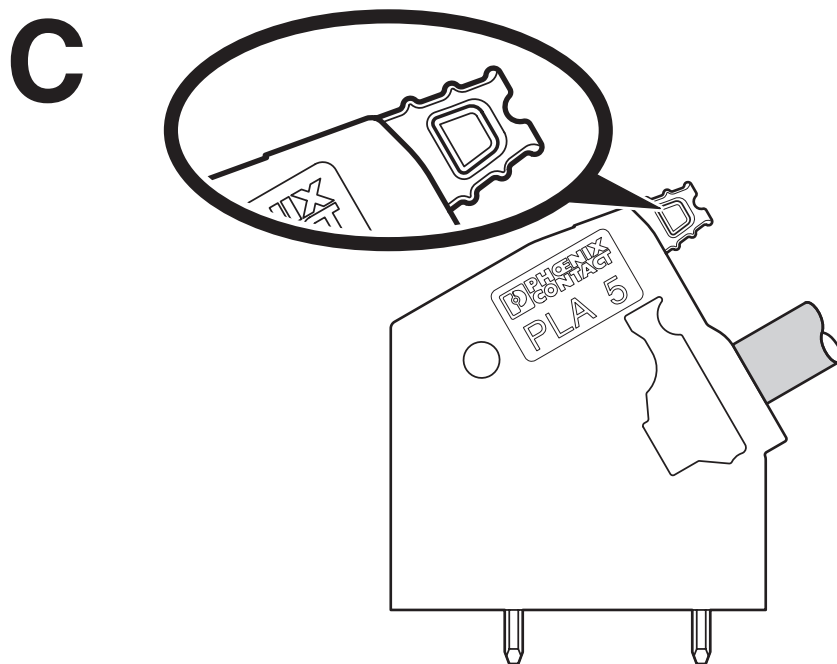
1792261

<https://www.phoenixcontact.com/us/products/1792261>

Dimensional drawing



Functional drawing



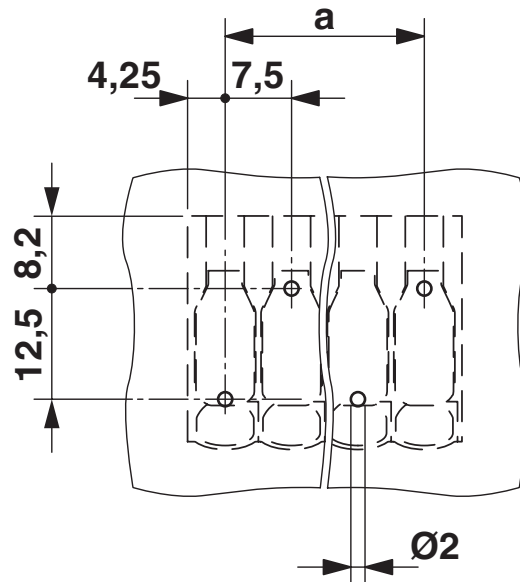
PLA 5/ 6-7,5-ZF - PCB terminal block

1792261

<https://www.phoenixcontact.com/us/products/1792261>



Drilling plan/solder pad geometry



PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1792261>

 cULus Recognized Approval ID: E60425-20110524				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	27 A	24 - 10	-
Use group C	600 V	27 A	24 - 10	-

 VDE Zeichengenehmigung Approval ID: 40041250				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	41 A	-	0.2 - 6

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Classifications

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101

ETIM

ETIM 9.0	EC002643
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

PLA 5/ 6-7,5-ZF - PCB terminal block



1792261

<https://www.phoenixcontact.com/us/products/1792261>

Environmental product compliance

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

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