

# PTSPLO-6/1-2X2 2,1 R32 - PCB terminal block



1705081

<https://www.phoenixcontact.com/us/products/1705081>

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 for tin-plated flexible cables, e.g., type PV 1-F, nominal current: 41 A, number of positions: 1, connection method: spring-cage connection, mounting: THT/THR, for user information for through-hole reflow technology, go to: [combicon.com](http://combicon.com)

## Your advantages

- Able to perform without insulating elements: ideal for easy integration into the SMT soldering process
- Tool-free spring principle enables time-saving connection of conductors with ferrules and tinned conductors
- Defined contact force ensures that contact remains stable over the long term

## Commercial data

Item number	1705081
Packing unit	220 pc
Minimum order quantity	220 pc
Note	Made to order (non-returnable)
Sales key	AA14
Product key	AANCBA
Catalog page	Page 475 (C-1-2013)
GTIN	4046356752831
Weight per piece (including packing)	3.4 g
Weight per piece (excluding packing)	1.849 g
Customs tariff number	85369010
Country of origin	DE

1705081

<https://www.phoenixcontact.com/us/products/1705081>

## Technical data

### Product properties

Product line	COMBICON Terminals L
Product type	Printed circuit board terminal
Product family	PTSPL 6/..
Number of positions	1
Pitch	0 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	4

### Electrical properties

Nominal current $I_N$	41 A
Degree of pollution	3

### Connection data

#### Connection technology

Type	Circular conductor connection, single-pos.
Nominal cross section	6 mm <sup>2</sup>

#### Conductor connection

Connection method	Push-in spring connection
Conductor cross section flexible	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> (Conductors with tin-plated litz wires are to be used, for example type PV1-F.)
Conductor cross section flexible, with ferrule without plastic sleeve	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Stripping length	12 mm ... 15 mm

### Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

### 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 soldering area (top layer)	Tin (4 - 8 µm Sn)

# PTSPLO-6/1-2X2 2,1 R32 - PCB terminal block



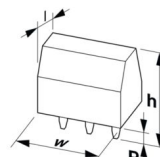
1705081

<https://www.phoenixcontact.com/us/products/1705081>

## Material data - housing

Color ()	()
----------	----

## Dimensions

Dimensional drawing	
Pitch	0 mm
Width [w]	8.7 mm
Height [h]	12.9 mm
Length [l]	14.95 mm
Installed height	10.8 mm
Solder pin length [P]	2.1 mm
Pin dimensions	0.6 x 1 mm

## PCB design

Hole diameter	1.3 mm
---------------	--------

## Mechanical tests

### 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

### Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	2.5 mm <sup>2</sup> / stranded PV1-F / > 50 N
	6 mm <sup>2</sup> / stranded PV1-F / > 80 N

## Electrical tests

### Temperature-rise test

Specification	60947-7-4/FDIS © IEC 2012
Requirement temperature-rise test	Increase in temperature ≤ 45 K

### Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

## Environmental and real-life conditions

# PTSPLO-6/1-2X2 2,1 R32 - PCB terminal block



1705081

<https://www.phoenixcontact.com/us/products/1705081>

## 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

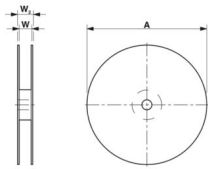
## Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

## 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

Dimensional drawing	
Type of packaging	32 mm wide tape
[W] tape width	32 mm
[W2] coil overall dimension	38.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

# PTSPLO-6/1-2X2 2,1 R32 - PCB terminal block



1705081

<https://www.phoenixcontact.com/us/products/1705081>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# PTSPLO-6/1-2X2 2,1 R32 - PCB terminal block



1705081

<https://www.phoenixcontact.com/us/products/1705081>

## 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](mailto:info@phoenixcon.com)