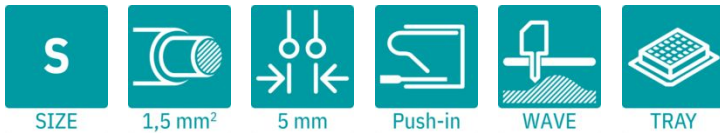


# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block

1071071

<https://www.phoenixcontact.com/us/products/1071071>

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: 16 A, nominal cross section: 1.5 mm<sup>2</sup>, number of rows: 1, number of positions per row: 6, product range: SPTAF 1/..-IL-EX, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.6 mm, number of solder pins per potential: 2, type of packaging: Tray



The figure shows 10-pos. standard item (without EX marking)

## 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
- Small component size for applications where space is at a premium
- Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- Quick and convenient testing using integrated test option

## Commercial data

Item number	1071071
Packing unit	55 pc
Minimum order quantity	55 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBGD
GTIN	4063151101039
Weight per piece (including packing)	3.88 g
Weight per piece (excluding packing)	3.536 g
Customs tariff number	85369010
Country of origin	PL

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

## Technical data

### Product properties

Product type	PCB terminal block
Product family	SPTAF 1/...IL-EX
Product line	COMBICON Terminals S
Number of positions	6
Pitch	5 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	2

### Electrical properties

#### Properties

Nominal current $I_N$	16 A
Nominal voltage $U_N$	137 V

### Ex data

#### Ex approval

Identification	0344 <sup>Ⓢ</sup> II 2G Ex eb IIC T6...T1 Gb
EU-type examination certificate	SEV 19 ATEX 0159 U
IECEx certificate	IECEx SEV 19.0026U

### Connection data

#### Connection technology

Nominal cross section	1.5 mm <sup>2</sup>
-----------------------	---------------------

#### Conductor connection

Connection method	Push-in spring connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (When connecting and possibly adjusting a solid conductor of 1.5 mm <sup>2</sup> , the mechanical lateral forces, which can affect the terminal block, have to be absorbed by lateral support.)
	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Push-in connection)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Conductor connection with open terminal point)
	0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Push-in connection)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Conductor connection with open terminal point)
	0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Push-in connection)
Stripping length	8 mm

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

## Mounting

Mounting type	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 (2 $\mu\text{m}$ - 4 $\mu\text{m}$ Sn)
Metal surface soldering area (top layer)	Tin (2 $\mu\text{m}$ - 4 $\mu\text{m}$ 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	PBT
Insulating material group	IIIa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

## Notes

Note on application	Maximum permissible outer diameter of the wire insulation $\leq 3$ mm
Note on Ex protection	Certificate of conformity and EX certificate available upon request
Note on Ex protection	Further information is to be found in the installation notes.

## Dimensions

Dimensional drawing	
---------------------	--

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

Pitch	5 mm
Width [w]	30 mm
Height [h]	10.6 mm
Length [l]	11 mm
Installed height	8 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.75 x 0.3 mm

## PCB design

Hole diameter	1.1 mm
---------------	--------

## Mechanical tests

### Test 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 setpoint/actual value	0.2 mm <sup>2</sup> / solid / > 10 N
	0.25 mm <sup>2</sup> / flexible / > 10 N
	1.5 mm <sup>2</sup> / solid / > 40 N
	1.5 mm <sup>2</sup> / flexible / > 40 N

## Electrical tests

### Temperature-rise test

Specification	IEC 60947-7-4:2013-08
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.

### Short-time withstand current

Specification	IEC 60947-7-4:2013-08
---------------	-----------------------

### Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

## Environmental and real-life conditions

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

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

## Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

## Aging

Specification	IEC 60947-7-4:2013-08
---------------	-----------------------

## Ambient conditions

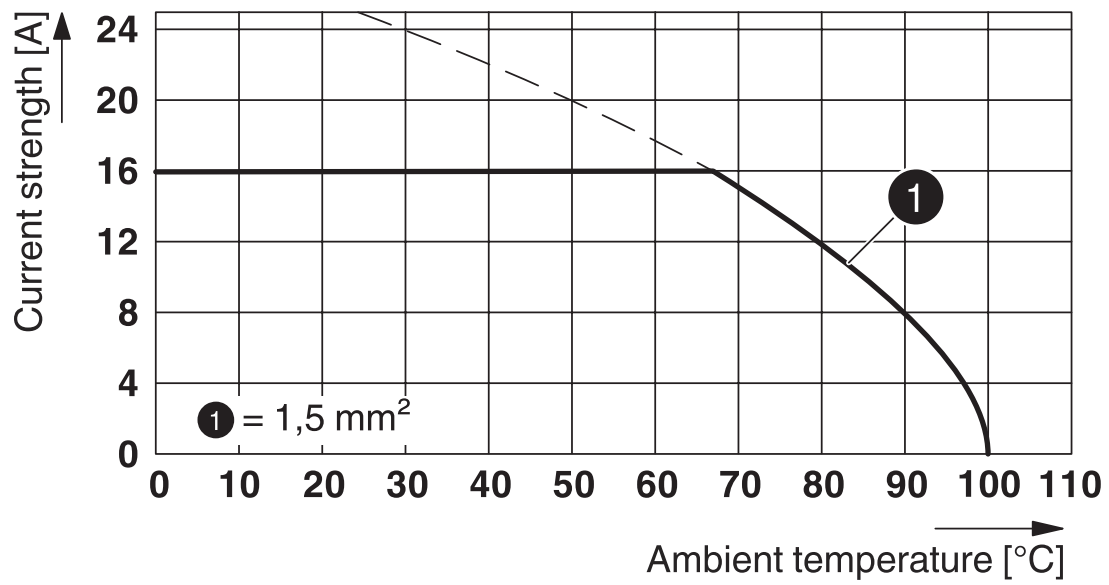
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-60 °C ... 100 °C

## Packaging specifications

Type of packaging	Tray
-------------------	------

## Drawings

Diagram



Type: SPTAF 1/...-5,0-IL(EL)

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1071071>



**IECEx**

Approval ID: IECEx SEV 19.0026U



**ATEX**

Approval ID: SEV 19 ATEX 0159 U

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

## Classifications

### ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

### ETIM

ETIM 10.0	EC002643
-----------	----------

### UNSPSC

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

# SPTAF 1/ 6-5,0-IL-EX - PCB terminal block



1071071

<https://www.phoenixcontact.com/us/products/1071071>

## 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	0.051 kg CO2e
---------	---------------

Phoenix Contact 2026 © - 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)