

# SPTAF 1/ 4-3,5-IL-EX - PCB terminal block

1071012

<https://www.phoenixcontact.com/us/products/1071012>

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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: 4, product range: SPTAF 1/...-IL-EX, pitch: 3.5 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. Suitable for CAT5

## Your advantages

- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1071012                        |
| Packing unit                         | 110 pc                         |
| Minimum order quantity               | 110 pc                         |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA12                           |
| Product key                          | AALBGC                         |
| GTIN                                 | 4063151100797                  |
| Weight per piece (including packing) | 2.18 g                         |
| Weight per piece (excluding packing) | 2.09 g                         |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                           |                      |
|---------------------------|----------------------|
| Product type              | PCB terminal block   |
| Product family            | SPTAF 1/...IL-EX     |
| Product line              | COMBICON Terminals S |
| Number of positions       | 4                    |
| Pitch                     | 3.5 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 $U_N$ | 44 V |

#### Data transmission

|   |                  |
|---|------------------|
| Signal type                             | Ethernet         |
| Frequency range                         | to 100 MHz       |
| Transmission medium                     | Copper           |
| Transmission characteristics (category) | CAT5 (IEC 11801) |
| Data transmission rate                  | 100 Mbps         |

### 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 | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Conductor connection with open terminal)   |

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|  |   |
|--|---|
| sleeve   | point)<br>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  |

## 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 µm - 4 µm Sn)   |
| Metal surface soldering area (top layer) | Tin (2 µm - 4 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                    | PBT           |
| Insulating material group              | IIIa          |
| CTI according to IEC 60112             | 275           |
| Flammability rating according to UL 94 | V0            |

## Notes

|                     |   |
|---------------------|---|
| Note on application | The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices. |
|---------------------|---|

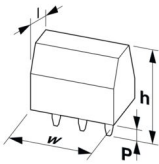
## Dimensions

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|                       |  |
|-----------------------|--|
| Dimensional drawing   |  |
| Pitch                 | 3.5 mm   |
| Width [w]             | 15.5 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                |

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## 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           |

### 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 |
|-------------------|------|

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## Drawings

Diagram



Type: SPTAF 1/...-3,5-IL(EL)

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1071012>



**IECEx**

Approval ID: IECEx SEV 19.0026U



**ATEX**

Approval ID: SEV 19 ATEX 0159 U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460101 |
| ECLASS-15.0 | 27460101 |

### ETIM

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

### UNSPSC

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

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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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.032 kg CO2e |
|---------|---------------|

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