

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block

1071010

<https://www.phoenixcontact.com/us/products/1071010>

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 mm², number of rows: 1, number of positions per row: 2, 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

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 | 1071010 |
| Packing unit | 210 pc |
| Minimum order quantity | 210 pc |
| Sales key | AA12 |
| Product key | AALBGC |
| GTIN | 4063151100773 |
| Weight per piece (including packing) | 1.112 g |
| Weight per piece (excluding packing) | 1.036 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

Technical data

Product properties

| | |
|---------------------------|----------------------|
| Product type | PCB terminal block |
| Product family | SPTAF 1/...IL-EX |
| Product line | COMBICON Terminals S |
| Number of positions | 2 |
| 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 |

Ex data

Ex approval

| | |
|---------------------------------|----------------------------------------------|
| Identification | 0344 [Ⓢ] 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 ² |
|-----------------------|---------------------|

Conductor connection

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

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

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 | Maximum permissible outer diameter of the wire insulation ≤ 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/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

| | |
|-----------------------|---------------|
| Pitch | 3.5 mm |
| Width [w] | 8.5 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 ² / solid / > 10 N |
| | 0.25 mm ² / flexible / > 10 N |
| | 1.5 mm ² / solid / > 40 N |
| | 1.5 mm ² / 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/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

| | |
|------------------------|-----------------------------|
| 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 |
|-------------------|------|

1071010

<https://www.phoenixcontact.com/us/products/1071010>

Drawings

Diagram



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

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1071010>



IECEx

Approval ID: IECEx SEV 19.0026U



ATEX

Approval ID: SEV 19 ATEX 0159 U

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SPTAF 1/ 2-3,5-IL-EX - PCB terminal block



1071010

<https://www.phoenixcontact.com/us/products/1071010>

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 | 0.016 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