

SPTAF 1/10-3,5-IL-EX - PCB terminal block



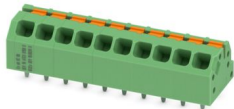
1071018

<https://www.phoenixcontact.com/us/products/1071018>

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PCB terminal block, nominal current: 16 A, nominal cross section: 1.5 mm², number of rows: 1, number of positions per row: 10, 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 | 1071018 |
| Packing unit | 80 pc |
| Minimum order quantity | 80 pc |
| Sales key | AA12 |
| Product key | AALBGC |
| GTIN | 4063151100858 |
| Weight per piece (including packing) | 4.95 g |
| Weight per piece (excluding packing) | 4.206 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 | 10 |
| 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 |

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

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| | |
|-----------------------|---------------|
| Pitch | 3.5 mm |
| Width [w] | 36.5 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 |

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

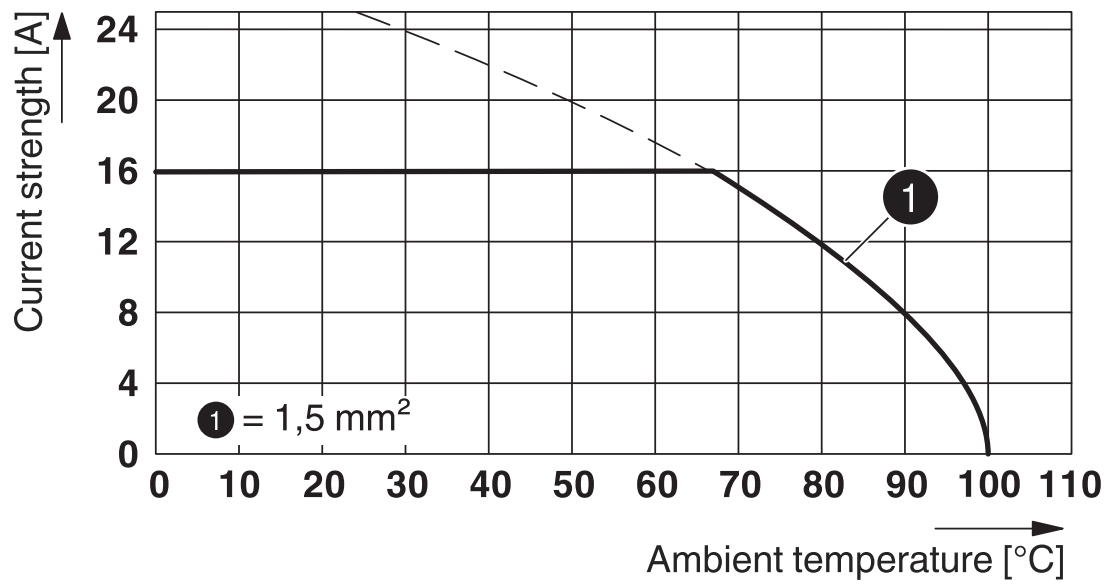
| | |
|---|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -60 °C ... 100 °C |

Packaging specifications

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

Drawings

Diagram



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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1071018>



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 | 0.076 kg CO2e |
|---------|---------------|

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