# PST 1,0/10-H-3,5 - Pin strip

1737093

https://www.phoenixcontact.com/us/products/1737093

**PHŒNIX CONTACT**

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Pin strip, nominal cross section: 1.5 mm$^2$, color: black, nominal current: 8 A (depends on the plug used), rated voltage (III/2): 250 V, contact surface: Tin, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: PST 1,0/..-H, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 6.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON PST 1,0, locking: without, mounting: without, type of packaging: packed in cardboard, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

## Your advantages

- Suitable for wave and reflow soldering processes
- Optimum pin geometry for all COMBICON pin strip connectors

## Commercial data

| | |
|---|---|
| Item number | 1737093 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA02 |
| Product key | AABTKB |
| Catalog page | Page 433 (C-1-2013) |
| GTIN | 4046356183505 |
| Weight per piece (including packing) | 1.416 g |
| Weight per piece (excluding packing) | 1.4 g |
| Customs tariff number | 85366930 |
| Country of origin | SK |

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## Technical data

### Product properties

| | |
|---|---|
| Type | Pin strip |
| Product line | COMBICON Connectors S |
| Product type | Pin strip |
| Product family | PST 1,0/..-H |
| Number of positions | 10 |
| Pitch | 3.5 mm |
| Number of connections | 10 |
| Number of rows | 1 |
| Mounting flange | without |
| Number of potentials | 10 |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

### Electrical properties

| | |
|---|---|
| Nominal current $I_N$ | 8 A (depends on the plug used) |
| Nominal voltage $U_N$ | 250 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 250 V |
| Rated surge voltage (II/2) | 2.5 kV |

### Mounting

| | |
|---|---|
| Mounting type | THR 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 | Tin-plated |
| Metal surface contact area (top layer) | Tin (3 - 5 µm Sn) |
| Metal surface contact area (middle layer) | Nickel (1 - 3 µm Ni) |
| Metal surface soldering area (top layer) | Tin (3 - 5 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (1 - 3 µm Ni) |

#### Material data - housing

| | |
|---|---|
| Color (Housing) | black (9005) |

| | |
|---|---|
| Insulating material | PA |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 250 |
| 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 |
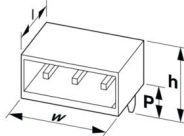
## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Pitch | 3.5 mm |
| Width [w] | 35 mm |
| Height [h] | 9.4 mm |
| Length [l] | 10.5 mm |
| Installed height | 2.8 mm |
| Solder pin length [P] | 6.6 mm |
| Pin dimensions | ø 1 mm |

PCB design

| | |
|---|---|
| Hole diameter | 1.2 mm |

## Electrical tests

Air clearances and creepage distances |

| | |
|---|---|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | IIIa |
| Comparative tracking index (IEC 60112) | CTI 250 |
| Rated insulation voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2.5 mm |
| Rated insulation voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 2.5 mm |
| Rated insulation voltage (II/2) | 250 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 2.5 mm |

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## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 100 °C (dependent on the 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

| | |
|---|---|
| Type of packaging | packed in cardboard |

# PST 1,0/10-H-3,5 - Pin strip

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27460201 |
| ECLASS-12.0 | 27460201 |
| ECLASS-13.0 | 27460201 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002637 |

### UNSPSC

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

## Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|----------------------------------------------------------|
|            | No hazardous substances above threshold values           |

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