

# PSC 1,5/ 3-F - PCB connector



1841909

<https://www.phoenixcontact.com/us/products/1841909>

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PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PSC 1,5/-F, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: PSC 1,5, Electrical properties: shielded, locking: Screw locking mechanism, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Well-known mounting principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Shroud for professional EMC shield feed-through on the inside of the device
- Screwable flange for superior mechanical stability

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1841909             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AA02                |
| Product key                          | AABWPA              |
| Catalog page                         | Page 251 (C-1-2013) |
| GTIN                                 | 4017918105594       |
| Weight per piece (including packing) | 5.374 g             |
| Weight per piece (excluding packing) | 5.039 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                           |                             |
|---------------------------|-----------------------------|
| Product type              | PCB connector               |
| Product family            | PSC 1,5/...-F               |
| Product line              | COMBICON Connectors S       |
| Type                      | Plugs with shielded housing |
| Number of positions       | 3                           |
| Pitch                     | 3.5 mm                      |
| Number of connections     | 3                           |
| Number of rows            | 1                           |
| Number of potentials      | 3                           |
| Mounting flange           | without                     |
| Electrical characteristic | shielded                    |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### Electrical properties

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Nominal current $I_N$       | 8 A                                                                                                                           |
| Nominal voltage $U_N$       | 320 V (for applications in metal or metal-plated housings, the degree of protection "safety extra-low voltage" must be used.) |
| Rated voltage (III/3)       | 250 V                                                                                                                         |
| Rated surge voltage (III/3) | 4 kV                                                                                                                          |
| Rated voltage (III/2)       | 320 V                                                                                                                         |
| Rated surge voltage (III/2) | 4 kV                                                                                                                          |
| Rated voltage (II/2)        | 630 V                                                                                                                         |
| Rated surge voltage (II/2)  | 4 kV                                                                                                                          |
| Electrical characteristic   | shielded                                                                                                                      |

### Connection data

#### Connection technology

|                         |                             |
|-------------------------|-----------------------------|
| Type                    | Plugs with shielded housing |
| Connector system        | PSC 1,5                     |
| Nominal cross section   | 1.5 mm <sup>2</sup>         |
| Contact connection type | Socket                      |

#### Interlock

|                 |                         |
|-----------------|-------------------------|
| Locking type    | Screw locking mechanism |
| Mounting flange | without                 |

#### Conductor connection

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Connection method                  | Screw connection with tension sleeve         |
| Conductor/PCB connection direction | 0 °                                          |
| Conductor cross section rigid      | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

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|                                                                       |                                              |
|-----------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section flexible                                      | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG                                           | 28 ... 16                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> |
| Stripping length                                                      | 7 mm                                         |
| Drive form screw head                                                 | Slotted (L)                                  |
| Tightening torque                                                     | 0.22 Nm ... 0.25 Nm                          |

## Specifications for ferrules without insulating collar

|                           |                    |
|---------------------------|--------------------|
| recommended crimping tool | 1212034 CRIMPFOX 6 |
|---------------------------|--------------------|

## Specifications for ferrules with insulating collar

|                           |                    |
|---------------------------|--------------------|
| recommended crimping tool | 1212034 CRIMPFOX 6 |
|---------------------------|--------------------|

## 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                                                                         |
| Metal surface terminal point (top layer) | Tin (5 - 7 µm Sn)                                                                |
| Metal surface contact area (top layer)   | Tin (5 - 7 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       |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Pitch               | 3.5 mm                                                                               |
| Width [w]           | 30.6 mm                                                                              |
| Height [h]          | 12.5 mm                                                                              |
| Length [l]          | 16 mm                                                                                |

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## Electrical tests

Air clearances and creepage distances |

|                                  |       |
|----------------------------------|-------|
| Insulating material group        | I     |
| Rated insulation voltage (III/3) | 250 V |
| Rated surge voltage (III/3)      | 4 kV  |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2)      | 4 kV  |
| Rated insulation voltage (II/2)  | 630 V |
| Rated surge voltage (II/2)       | 4 kV  |

## Packaging specifications

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

# PSC 1,5/ 3-F - PCB connector

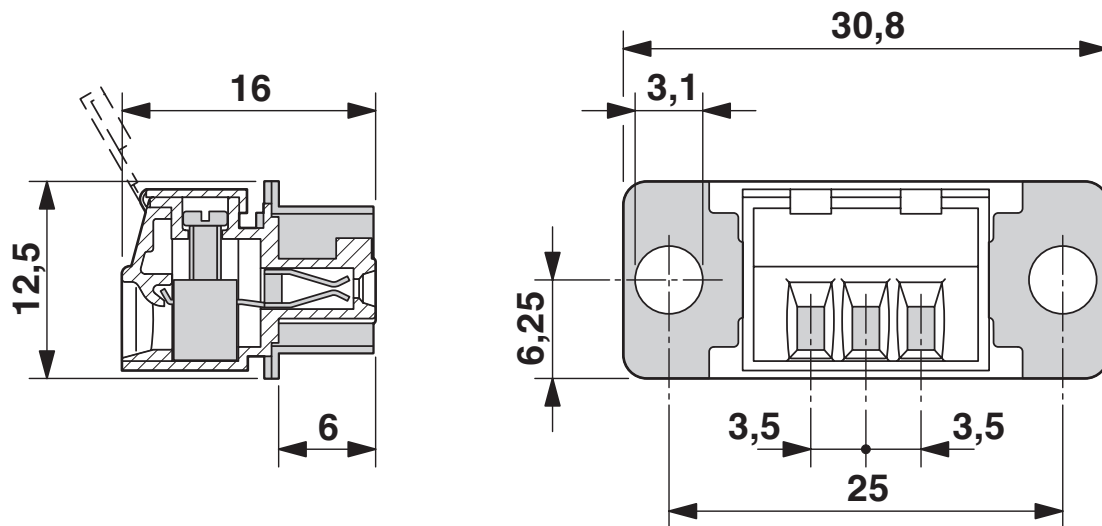
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1841909>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                        |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 8 A                   | 28 - 16           | -                           |
| Use group D                                                                                                        |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 8 A                   | 28 - 16           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-19920306 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 8 A                   | 30 - 14           | -                           |
| Use group D                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 8 A                   | 30 - 14           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27460202 |
| ECLASS-12.0 | 27460202 |
| ECLASS-13.0 | 27460202 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002638 |
|----------|----------|

### 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 0.105 kg CO2e                            |

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