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PCB connector, nominal cross section: 1 mm<sup>2</sup>, color: light grey, nominal current: 8 A, rated voltage (III/2): 200 V, contact surface: Gold, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ZEC 1,0/..-LPV, pitch: 3.5 mm, mounting: Direct plug-in method, conductor/PCB connection direction: 0 °, number of solder pins per potential: 2, plug-in system: ZEC, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Easy component connection
- Inexpensive direct plug-in connection with just one component

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1751697       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | AABEBA        |
| GTIN                                 | 4046356317580 |
| Weight per piece (including packing) | 3.062 g       |
| Weight per piece (excluding packing) | 2.68 g        |
| Customs tariff number                | 85366930      |
| Country of origin                    | GR            |

## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB connector         |
| Product family            | ZEC 1,0/..-LPV        |
| Product line              | COMBICON Connectors S |
| Number of positions       | 4                     |
| Pitch                     | 3.5 mm                |
| Number of connections     | 4                     |
| Number of rows            | 1                     |
| Number of potentials      | 4                     |
| Mounting flange           | without               |
| Solder pins per potential | 2                     |

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 8 A    |
| Nominal voltage $U_N$       | 200 V  |
| Degree of pollution         | 3      |
| Rated voltage (III/3)       | 160 V  |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2)       | 200 V  |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2)        | 320 V  |
| Rated surge voltage (II/2)  | 2.5 kV |

### Mounting

|               |                       |
|---------------|-----------------------|
| Mounting type | Direct plug-in method |
|---------------|-----------------------|

### 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 contact area (top layer)    | Gold (0.8 - 1.4 $\mu\text{m}$ Au)  |
| Metal surface contact area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)  |

| Material data - housing                                      |                   |
|--|-------------------|
| Color (Housing)  | light grey (7035) |
| 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               |

# ZEC 1,0/ 4-LPV-3,5 GY35AUC2CI1 - PCB connector



1751697

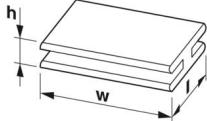
<https://www.phoenixcontact.com/pc/products/1751697>

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

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|--|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 3.5 mm   |
| Installed height    | 7 mm   |

## Electrical tests

| Air clearances and creepage distances                  |                     |
|--|---------------------|
| Specification  | IEC 60664-1:2007-04 |
| Insulating material group                              | I                   |
| Comparative tracking index (IEC 60112)                 | CTI 600             |
| 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 mm                |
| Rated insulation voltage (III/2)                       | 200 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)                      | 1.5 mm              |
| Rated insulation voltage (II/2)                        | 320 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)                       | 1.6 mm              |

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

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1751697>

|  <b>cULus Recognized</b><br>Approval ID: E60425-19941110 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| Use group B   | 150 V                 | 8 A                   | -                 | -                    |
|   |                       |                       |                   |                      |

|  <b>VDE Gutachten mit Fertigungsüberwachung</b><br>Approval ID: 40020343 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|   | 160 V                 | 8 A                   | -                 | -                    |
|   |                       |                       |                   |                      |

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002637 |
|----------|----------|

### UNSPSC

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

## 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% |
|-------------------------------------|----------------------------|

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