

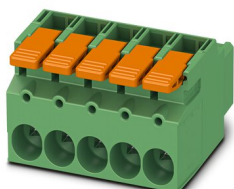
# PCB connector - LPC 16 HC/ 4-ST-10,16



1716817

<https://www.phoenixcontact.com/us/products/1716817>

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PCB connector, nominal cross section: 16 mm<sup>2</sup>, color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Female connector, number of rows: 1, number of positions: 4, product range: LPC 16 HC/..-ST, pitch: 10.16 mm, connection method: Lever Push-in connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16 advanced, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Clear lever positions provide reliable feedback on opened or closed clamping spaces
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed

## Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1716817       |
| Packing unit                         | 25 pc         |
| Minimum order quantity               | 25 pc         |
| Product Key                          | AAEBAA        |
| GTIN                                 | 4055626689876 |
| Weight per Piece (including packing) | 2.22 g        |
| Weight per Piece (excluding packing) | 2.22 g        |
| Customs tariff number                | 85366990      |

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## Technical Data

### Product properties

|                     |                        |
|---------------------|------------------------|
| Product line        | COMBICON Connectors XL |
| Product type        | PCB plug               |
| Number of positions | 4                      |
| Pitch               | 10.16 mm               |
| Number of rows      | 1                      |
| Mounting flange     | without                |

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 76 A   |
| Nominal voltage $U_N$       | 1000 V |
| Pollution degree            | 3      |
| Rated voltage (III/3)       | 1000 V |
| Rated surge voltage (III/3) | 8 kV   |
| Rated voltage (III/2)       | 1000 V |
| Rated surge voltage (III/2) | 8 kV   |

### Connection data

#### Connection technology

|                       |                         |
|-----------------------|-------------------------|
| Connector system      | COMBICON PC 16 advanced |
| Nominal cross section | 16 mm <sup>2</sup>      |
| Type of contact       | Female connector        |

#### Interlock

|                 |         |
|-----------------|---------|
| Locking type    | without |
| Mounting flange | without |

#### Conductor connection

|                                                                       |                                             |
|-----------------------------------------------------------------------|---------------------------------------------|
| Conductor/PCB connection direction                                    | 0 °                                         |
| Conductor cross section solid                                         | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section flexible                                      | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section AWG                                           | 18 ... 4                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Cylindrical gauge a x b / diameter                                    | - / 5.4 mm                                  |
| Stripping length                                                      | 18 mm                                       |

### Material specifications

#### Material data - contact

|      |                                                                                  |
|------|----------------------------------------------------------------------------------|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
|------|----------------------------------------------------------------------------------|

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|                                          |                     |
|------------------------------------------|---------------------|
| Contact material                         | Cu alloy            |
| Surface characteristics                  | hot-dip tin-plated  |
| Metal surface terminal point (top layer) | Tin (10 - 16 µm Sn) |
| Metal surface contact area (top layer)   | Tin (10 - 16 µm Sn) |

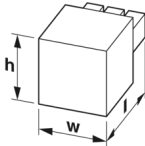
## Material data - housing

|                                        |              |
|----------------------------------------|--------------|
| Housing color                          | green (6021) |
| Insulating material                    | PA           |
| Insulating material group              | I            |
| CTI according to IEC 60112             | 600          |
| Flammability rating according to UL 94 | V0           |

## Material data – actuating element

|                                        |               |
|----------------------------------------|---------------|
| Color of the actuating lever           | orange (2003) |
| Insulating material                    | PA GF         |
| Insulating material group              | I             |
| CTI according to IEC 60112             | 600           |
| Flammability rating according to UL 94 | V0            |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Pitch               | 10.16 mm                                                                             |
| Width [w]           | 43.84 mm                                                                             |
| Height [h]          | 32.2 mm                                                                              |
| Length [l]          | 56.3 mm                                                                              |

## 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. |
| Note on the status of the technical data | These technical data are expected. Final tests to be done.                                                                                                                               |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 105 °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                                    |

## Electrical tests

# PCB connector - LPC 16 HC/ 4-ST-10,16



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## 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)                       | 1000 V              |
| Rated surge voltage (III/3)                            | 8 kV                |
| minimum clearance value - non-homogenous field (III/3) | 8 mm                |
| minimum creepage distance (III/3)                      | 12.5 mm             |
| Rated insulation voltage (III/2)                       | 1000 V              |
| Rated surge voltage (III/2)                            | 8 kV                |
| minimum clearance value - non-homogenous field (III/2) | 8 mm                |
| minimum creepage distance (III/2)                      | 8 mm                |
| Rated insulation voltage (II/2)                        | 1000 V              |
| Rated surge voltage (II/2)                             | 6 kV                |
| minimum clearance value - non-homogenous field (II/2)  | 5.5 mm              |
| minimum creepage distance (II/2)                       | 5.5 mm              |

## Packaging specifications

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

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27440309 |
| ECLASS-10.0.1 | 27440309 |
| ECLASS-11.0   | 27460202 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002638 |
|----------|----------|

### UNSPSC

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

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## Accessories

### Coding profile

Coding profile - CP-PC RD - 1701967

<https://www.phoenixcontact.com/us/products/1701967>

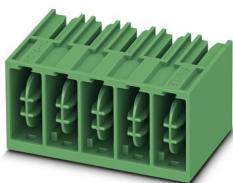
Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



### PCB header

PCB header - PC 16 HC/ 4-G-10,16 - 1716848

<https://www.phoenixcontact.com/us/products/1716848>



PCB headers, nominal cross section: 16 mm<sup>2</sup>, color: green, nominal current: 76 A, rated voltage (III/2): 690 V, contact surface: Tin, type of contact: Male connector, number of rows: 1, number of positions: 4, product range: PC 16 HC/. -G, pitch: 10.16 mm, mounting: Wave soldering, pin layout: Linear three-way pinning, solder pin [P]: 4 mm, number of solder pins per potential: 4, plug-in system: COMBICON PC 16 advanced, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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