

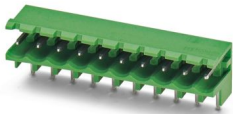
# MSTBW 2,5/ 3-G BU - PCB header



1965672

<https://www.phoenixcontact.com/us/products/1965672>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: blue, nominal current: 12 A, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTBW 2,5/-G, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- Well-known mounting principle allows worldwide use
- Stand-offs enable the PCB to be cleaned or sealed

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1965672                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA03                           |
| Product key                          | AACSGL                         |
| GTIN                                 | 4017918910761                  |
| Weight per piece (including packing) | 1.431 g                        |
| Weight per piece (excluding packing) | 1.138 g                        |
| Customs tariff number                | 85366930                       |
| Country of origin                    | DE                             |

# MSTBW 2,5/ 3-G BU - PCB header



1965672

<https://www.phoenixcontact.com/us/products/1965672>

## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB headers           |
| Product family            | MSTBW 2,5/..-G        |
| Product line              | COMBICON Connectors M |
| Number of positions       | 3                     |
| Pitch                     | 5 mm                  |
| Number of connections     | 3                     |
| Number of rows            | 1                     |
| Number of potentials      | 3                     |
| Mounting flange           | without               |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 1                     |

### Electrical properties

|                       |      |
|-----------------------|------|
| Nominal current $I_N$ | 12 A |
| Degree of pollution   | 3    |

### 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                     | Tin-plated   |
| Metal surface contact area (top layer)      | Tin (5 - 7 $\mu\text{m}$ Sn)   |
| Metal surface contact area (middle layer)   | Nickel (2 - 3 $\mu\text{m}$ Ni)  |
| Metal surface soldering area (top layer)    | Tin (5 - 7 $\mu\text{m}$ Sn)   |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)  |

#### Material data - housing

|  |             |
|--|-------------|
| Color (Housing)  | blue (5015) |
| 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         |

# MSTBW 2,5/ 3-G BU - PCB header



1965672

<https://www.phoenixcontact.com/us/products/1965672>

|   |
|---|
| Temperature for the ball pressure test according to EN 60695-10-2 |
|---|

|        |
|--------|
| 125 °C |
|--------|

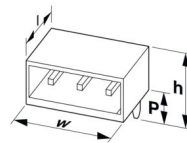
## Notes

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

|      |
|------|
| 5 mm |
|------|

|           |
|-----------|
| Width [w] |
|-----------|

|       |
|-------|
| 15 mm |
|-------|

|            |
|------------|
| Height [h] |
|------------|

|          |
|----------|
| 15.95 mm |
|----------|

|            |
|------------|
| Length [l] |
|------------|

|       |
|-------|
| 12 mm |
|-------|

|                  |
|------------------|
| Installed height |
|------------------|

|          |
|----------|
| 12.45 mm |
|----------|

|                       |
|-----------------------|
| Solder pin length [P] |
|-----------------------|

|        |
|--------|
| 3.5 mm |
|--------|

|                |
|----------------|
| Pin dimensions |
|----------------|

|       |
|-------|
| 11 mm |
|-------|

## PCB design

|               |
|---------------|
| Hole diameter |
|---------------|

|        |
|--------|
| 1.4 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 |
|---------------------|

# MSTBW 2,5/ 3-G BU - PCB header





1965672

<https://www.phoenixcontact.com/us/products/1965672>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1965672>

|  <b>CSA</b><br>Approval ID: 13631-2585951 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B  |                       |                       |                   |                             |
|  | 300 V                 | 15 A                  | -                 | -                           |
| Use group D  |                       |                       |                   |                             |
|  | 300 V                 | 10 A                  | -                 | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-19931011 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B   |                       |                       |                   |                             |
|   | 300 V                 | 15 A                  | -                 | -                           |
| Use group D   |                       |                       |                   |                             |
|   | 300 V                 | 10 A                  | -                 | -                           |

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40050648 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 250 V                 | 12 A                  | -                 | -                           |

# MSTBW 2,5/ 3-G BU - PCB header



1965672

<https://www.phoenixcontact.com/us/products/1965672>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# MSTBW 2,5/ 3-G BU - PCB header



1965672  
<https://www.phoenixcontact.com/us/products/1965672>

## 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%               |

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)