

# FS 0,635/ 60-MV-R- 5,0 - SMD male connectors

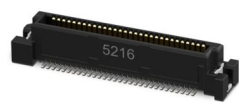


1332122

<https://www.phoenixcontact.com/us/products/1332122>

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SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 60, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



## Your advantages

- Design-in support during device development through M-CAD/E-CAD data and a free sample service
- Cost and space savings with the comprehensive portfolio available in various stack heights
- Easy mating with integrated keyways and tolerance compensation for error-free production
- Time savings during the development process with customer-specific simulations for data integrity
- High-speed data transmission up to 30 Gbps for various possible applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1332122       |
| Packing unit                         | 850 pc        |
| Minimum order quantity               | 850 pc        |
| Sales key                            | AA23          |
| Product key                          | AAWGCA        |
| GTIN                                 | 4063151626594 |
| Weight per piece (including packing) | 1.295 g       |
| Weight per piece (excluding packing) | 1.295 g       |
| Customs tariff number                | 85366930      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                     |                        |
|---------------------|------------------------|
| Product type        | SMD male connector     |
| Product family      | FS 0,635/...-MV-R- 5,0 |
| Number of positions | 60                     |
| Pitch               | 0.635 mm               |
| Number of rows      | 2                      |
| Pin layout          | Linear pad geometry    |

### Electrical properties

|                           |                             |
|---------------------------|-----------------------------|
| Nominal current $I_N$     | 0.5 A (40-pos. / 60-pos.)   |
| Degree of pollution       | 3                           |
| Contact resistance        | 40 mΩ                       |
| Test voltage              | 500 V AC IEC 60512-4-1:2003 |
| Rated voltage (I/I)       | 125 V                       |
| Rated surge voltage (I/I) | 0.8 kV                      |

### Mounting

|               |                     |
|---------------|---------------------|
| Mounting type | SMD soldering       |
| Pin layout    | Linear pad geometry |

### Processing notes

|                                  |                  |
|----------------------------------|------------------|
| Process                          | Reflow soldering |
| Moisture Sensitive Level         | MSL 1            |
| Classification temperature $T_c$ | 260 °C           |
| Solder cycles in the reflow      | 3                |

### 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                     | Selective coating  |
| Metal surface contact area (top layer)      | Gold (Au)  |
| Metal surface contact area (middle layer)   | Nickel (Ni)  |
| Metal surface soldering area (top layer)    | Tin (Sn)   |
| Metal surface soldering area (middle layer) | Nickel (Ni)  |

#### Material data - housing

|                     |              |
|---------------------|--------------|
| Color (Housing)     | black (9005) |
| Insulating material | LCP          |

### Notes

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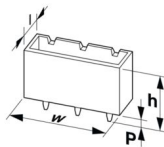


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|                    |  |
|--------------------|--|
| Notes on operation | The permissible voltage during operation depends on the application, taking into consideration the air clearances and creepage distances within the scope of insulation requirements in accordance with IEC 60664-1. |
|--------------------|--|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 0.635 mm   |
| Width [w]           | 25.92 mm   |
| Height [h]          | 5.6 mm   |
| Length [l]          | 5.2 mm   |
| Installed height    | 5 mm   |

## Application

|                   |   |
|-------------------|---|
| Contact cover     | 0.6 mm  |
| Center offset     | ± 0.5 mm in longitudinal and transverse direction   |
| Stack height      | 6 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/...-FV-R- 4,0)<br>12 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/...-FV-R-10,0) |
| Wipe length       | 0.6 mm  |
| Angular tolerance | ± 10 ° in longitudinal and transverse direction (when plugging in)<br>± 2 ° in longitudinal and transverse direction (when plugged in)  |

## PCB design

|               |               |
|---------------|---------------|
| Pad geometry  | 0.35 x 1.8 mm |
| Hole diameter | 0.9 mm        |

## Electrical tests

### Thermal test | Test group C

|                            |                       |
|----------------------------|-----------------------|
| Specification              | IEC 60512-5-2:2002-02 |
| Tested number of positions | 60                    |

### Insulation resistance

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | ≥ 5 GΩ                |

### Air clearances and creepage distances |

|   |                     |
|---|---------------------|
| Specification                                     | IEC 60664-1:2007-04 |
| Minimum value for clearance and creepage distance | 0.19 mm             |

## Environmental and real-life conditions

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## Vibration test

|                        |                       |
|------------------------|-----------------------|
| Specification          | IEC 60068-2-6:2007-12 |
| Frequency              | 10 - 55 - 10 Hz       |
| Sweep speed            | 1 octave/min          |
| Amplitude              | 1.52 mm               |
| Sweep speed            | 181 m/s <sup>2</sup>  |
| Test duration per axis | 2 h                   |

## Durability test

|  |                                   |
|--|-----------------------------------|
| Specification                                | IEC 60512-9-1:2010-03 (following) |
| Contact resistance R <sub>1</sub>            | 40 mΩ                             |
| Contact resistance R <sub>2</sub>            | 40 mΩ                             |
| Insertion/withdrawal cycles                  | 50                                |
| Insulation resistance, neighboring positions | ≥ 5 GΩ                            |

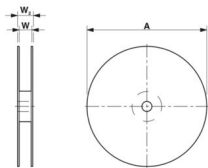
## Climatic test

|                                   |                        |
|-----------------------------------|------------------------|
| Specification                     | IEC 60068-2-60:2015-06 |
| Corrosive stress                  | Method 4, 10 days      |
| Thermal stress                    | 125 °C/168 h           |
| Power-frequency withstand voltage | 500 V                  |

## Ambient conditions

|   |                   |
|---|-------------------|
| Ambient temperature (operation)         | -55 °C ... 125 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Relative humidity (storage/transport)   | 30 % ... 70 %     |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |

## Packaging specifications

|                             |  |
|-----------------------------|--|
| Dimensional drawing         |  |
| Type of packaging           | 44 mm wide tape  |
| [W] tape width              | 44 mm  |
| [W2] coil overall dimension | 50.4 mm  |
| [A] coil diameter           | 330 mm   |
| Outer packaging type        | Transparent-Bag  |
| ESD level                   | (D) electrostatically conductive   |
| Specification               | DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07   |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## Environmental product compliance

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

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