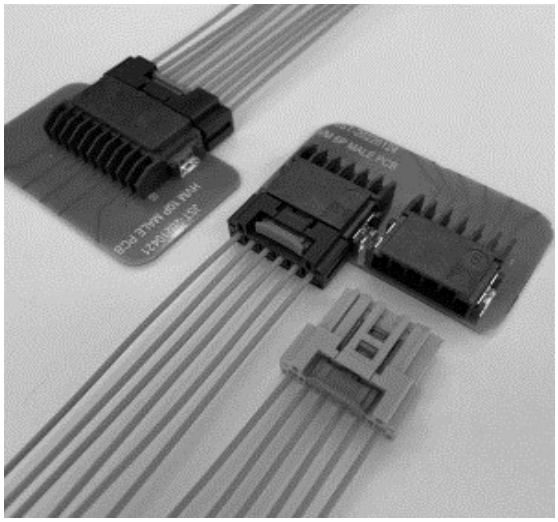
# HVM CONNECTOR

*Board-to-wire*



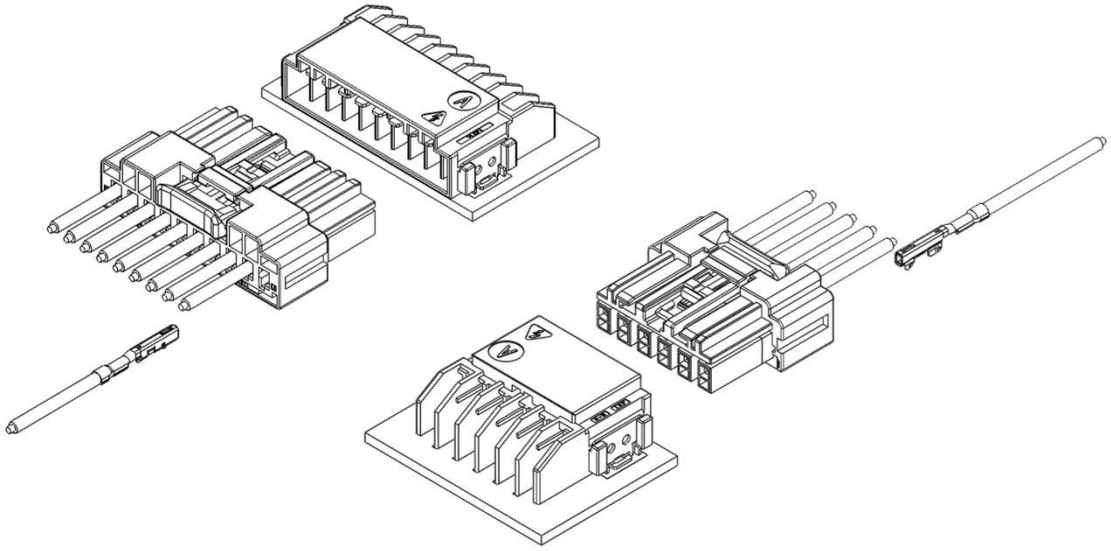
Developed in pursuit of withstanding high voltage, miniaturization and low profile as surface mounting type connector for automotive.
To realize the withstanding voltage and miniaturization by flange structure and pitch 3.5/4.0mm design.

## ■ Features

**●Withstanding high voltage·Miniaturization·Low profile**
Flange structure design enable withstanding high voltage.
The miniaturization is realized.

**●Connector Position Assurance (CPA) Design**

**●UL94 V-0 material**
In response to increasingly stringent requirements for flammability.
Use resin that supports UL94 V-0.



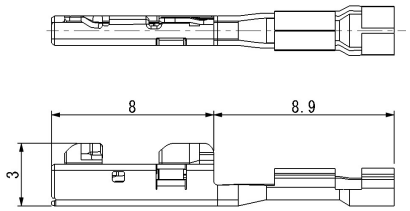
## ■ Specifications

●Current rating : 5A AC, DC max
●Rated voltage : 1,000V AC / DC (10 circuits)
1,250V AC / DC (6 circuits)
●Withstanding voltage : 3,000VAC / minute (10 circuits)
3,500 VAC / minute (6 circuits)
●Temperature range : -40℃ to +125℃ (gold- plated)
-40℃ to +105℃ (tin- plated)
(including temperature rise in applying electrical current)
●Contact resistance : Initial value / 20 mΩ max.
After environmental tests/ 20 mΩ max.
●Insulation resistance : 200 MΩ min.
●Applicable wire : 0.3mm$^2$ to 0.5mm$^2$ , O.D. Ø1.4 to 1.8mm
(High voltage cable)

*Compliant with ELV/RoHS.
*Contact JST for details.

## Female terminal

● **0.64 Female terminal S**

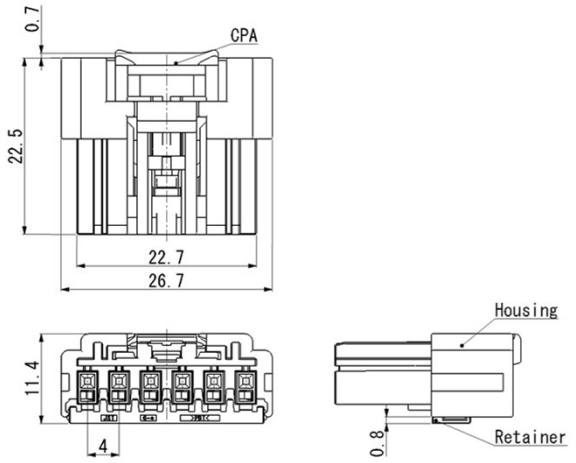



| Model No. | Applicable wire range | | Q'ty/reel |
|---|---|---|---|
| | Conductor (mm²) | Insulation O.D. (mm) | |
| ①**SNAC3-A021T-M0.64** | 0.3 to 0.5 | 1.4 to 1.8 | 5,000 |
| ②**SNAC3-A021GF-M0.64-1** | 0.3 to 0.5 | 1.4 to 1.8 | 5,000 |

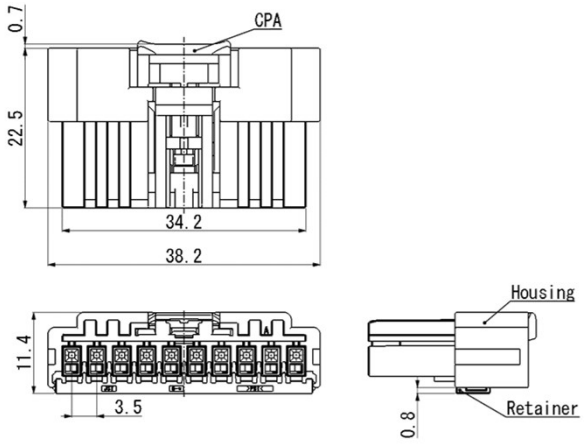
| Material and Finish |
|---|
| ①Copper alloy, nickel-undercoated, tin-plated<br>②Copper alloy, nickel-undercoated, Contact area: gold-plated<br>Barrel area: tin-plated |

## Female connector

● **6 circuits**




● **10 circuits**




| Circuits | Model No. | Housing Color | Q'ty/box |
|---|---|---|---|
| 6 | **06HVM-BC-1A-K-A** | Black | 550 |
| | **06HVM-BC-1A-D-B** | Orange | 550 |
| 10 | **10HVM-BC-1A-K-A** | Black | 400 |
| | **10HVM-BC-1A-D-B** | Orange | 400 |

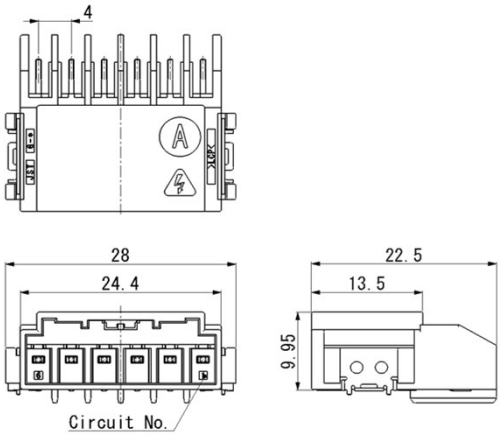
| Material and Finish |
|---|
| Housing: Glass-filled PBT (UL94 V-0)<br>Retainer: Glass-filled PBT, Blue (UL94 V-0)<br>CPA: Glass-filled PBT, Green (UL94 V-0) |

Note: Color/Key codes other than above mentioned housing are also available.
Contact JST for details.

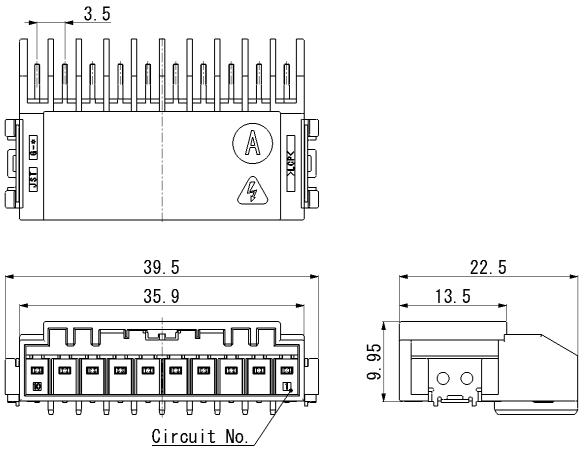
## Male connector

### SMT type

● **6 circuits**




● **10 circuits**

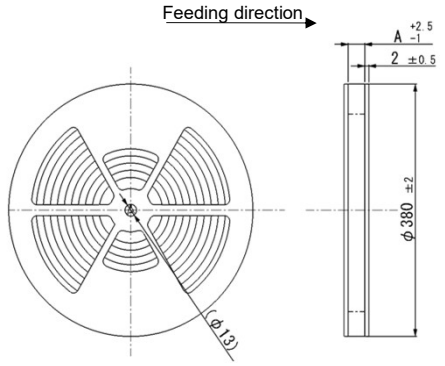



| Circuits | Model No. | Housing Color | Q'ty/box |
|---|---|---|---|
| 6 | ①**SM06B-HVMK-1A-A** | Black | 800 |
| | ②**SM06B-HVMK-1AGF-A** | Black | 800 |
| | ①**SM06B-HVMK-1A-B** | Black | 800 |
| | ②**SM06B-HVMK-1AGF-B** | Black | 800 |
| 10 | ①**SM10B-HVMK-1A-A** | Black | 510 |
| | ②**SM10B-HVMK-1AGF-A** | Black | 510 |
| | ①**SM10B-HVMK-1A-B** | Black | 510 |
| | ②**SM10B-HVMK-1AGF-B** | Black | 510 |

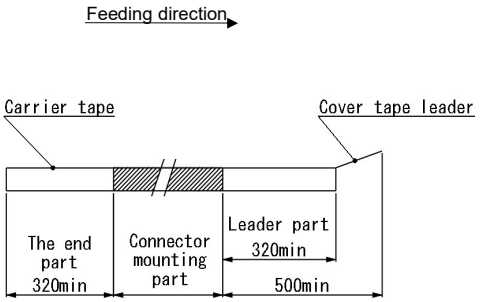
| Material and Finish |
|---|
| Housing: Glass-filled LCP, Black (UL94 V-0)<br>Pin: ①Copper alloy, nickel-undercoated, tin-plated<br>②Copper alloy, nickel-undercoated, Contact area: gold-plated<br>Solder tail: tin-plated<br>Tab: Brass, nickel-undercoated, tin-plated |

Note: Key codes other than above mentioned housing are also available.
Contact JST for details.

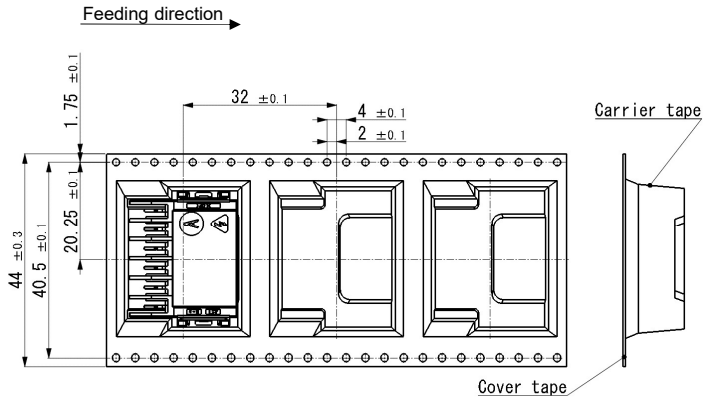
## Taping specifications



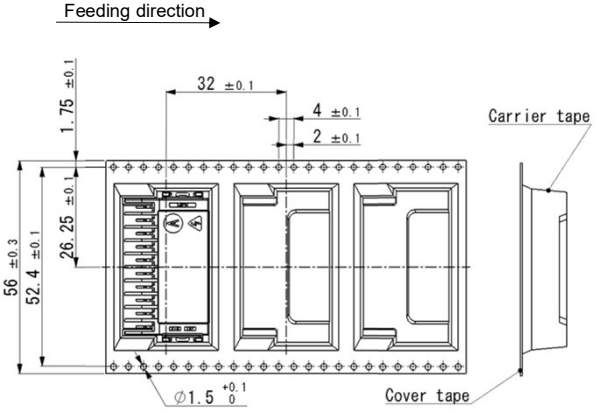

| Circuits | A |
|---|---|
| 10 | 57 |
| 6 | 45 |




● 6 circuits

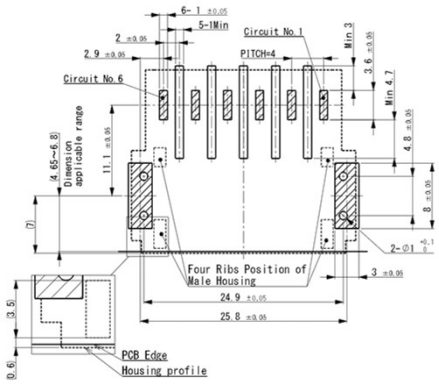



● 10 circuits

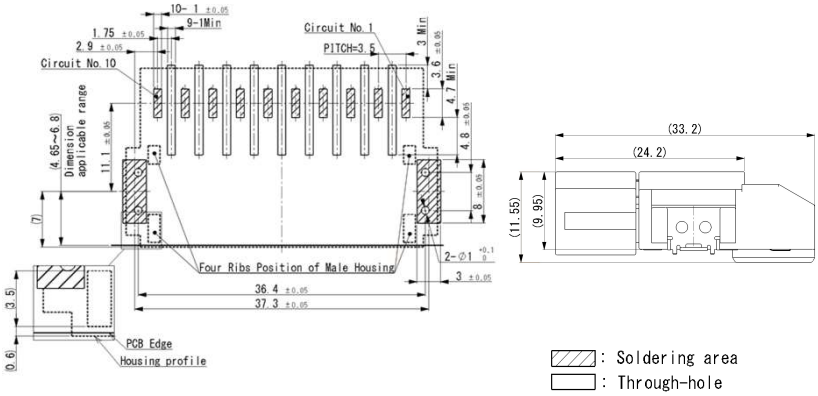



## PC board layout, Assembly layout

● 6 circuits




● 10 circuits




Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as guideline. Contact JST for details.

## Crimping machine, Applicator

| Strip terminal | Crimping machine | Crimp applicator MKS-L | |
|---|---|---|---|
| | | Dies | Crimp applicator with dies |
| **SNAC3-A021T-M0.64** | AP-K2N | MK/SNAC3-A021-064 | APLMK SNAC3-A021-064 |
| **SNAC3-A021GF-M0.64-1** | | | |

Note: 1. Contact JST for details.
2. When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.