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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

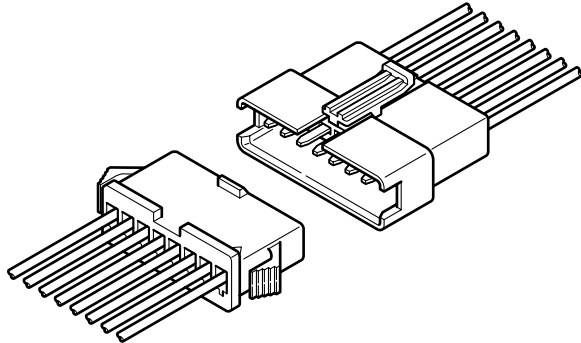
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# SM CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



**The SM series are 2.5mm pitch, wire-to-wire connectors that perform reliably in high-density, small current applications.**

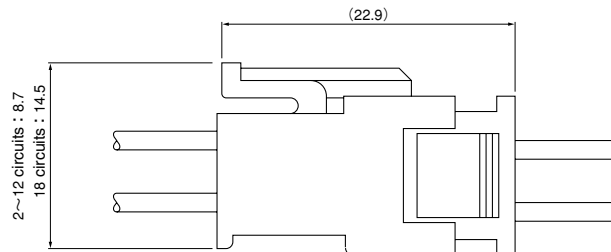
- High contact pressure
- Highly reliable housing construction
- Mountable on a variety of panels
- Arm lock mechanism

## Specifications

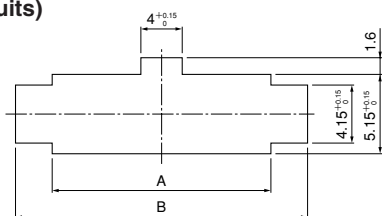
- Current rating: 3A AC, DC max.
  - Voltage rating: 250V AC, DC max.
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/ 10m Ω max.  
After environmental testing/ 20m Ω max.
  - Insulation resistance: 500M Ω min.
  - Withstanding voltage: 1,500V AC/minute
  - Applicable wire: AWG #28 to #22  
0.08 to 0.33mm<sup>2</sup>
  - Applicable panel thickness: 0.5 to 2.0mm
- \* Compliant with RoHS.  
\* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.  
\* Contact JST for details.

## Standards

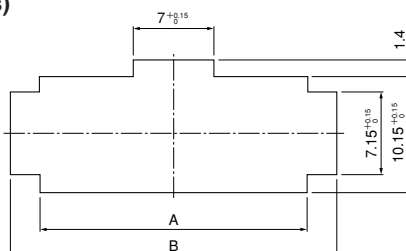
- Ⓡ Recognized E60389
- Ⓢ Certified LR20812
- Ⓡ R50120150



(2 to 12 circuits)



(18 circuits)



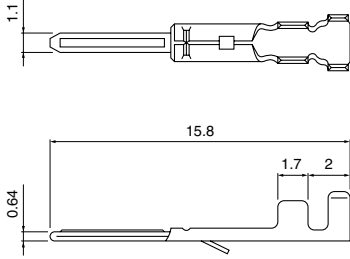
| Circuits | Plug housing Model No. | Panel thickness (mm)                         |                   |                      |                   |                      |                   |
|----------|------------------------|--|-------------------|----------------------|-------------------|----------------------|-------------------|
|          |                        | 0.5~0.9                                      |                   | 1.0~1.5              |                   | 1.5~2.0              |                   |
|          |                        | Panel hole dimensions (mm) General tolerance |                   |                      |                   |                      |                   |
|          |                        | A <sup>+0.15/0</sup>                         | B <sup>±0.1</sup> | A <sup>+0.15/0</sup> | B <sup>±0.1</sup> | A <sup>+0.15/0</sup> | B <sup>±0.1</sup> |
| 2        | SMP-02V-B(N)C          | 5.7  | 9.6               | 5.7                  | 9.8               | 5.7                  | 10.0              |
| 3        | SMP-03V-B(N)C          | 8.2  | 12.1              | 8.2                  | 12.3              | 8.2                  | 12.5              |
| 4        | SMP-04V-B(N)C          | 10.7   | 14.6              | 10.7                 | 14.8              | 10.7                 | 15.0              |
| 5        | SMP-05V-B(N)C          | 13.2   | 17.1              | 13.2                 | 17.3              | 13.2                 | 17.5              |
| 6        | SMP-06V-B(N)C          | 15.7   | 19.6              | 15.7                 | 19.8              | 15.7                 | 20.0              |
| 7        | SMP-07V-B(N)C          | 18.2   | 22.1              | 18.2                 | 22.3              | 18.2                 | 22.5              |
| 8        | SMP-08V-B(N)C          | 20.7   | 24.6              | 20.7                 | 24.8              | 20.7                 | 25.0              |
| 9        | SMP-09V-B(N)C          | 23.2   | 27.1              | 23.2                 | 27.3              | 23.2                 | 27.5              |
| 10       | SMP-10V-B(N)C          | 25.7   | 29.6              | 25.7                 | 29.8              | 25.7                 | 30.0              |
| 11       | SMP-11V-B(N)C          | 28.2   | 32.1              | 28.2                 | 32.3              | 28.2                 | 32.5              |
| 12       | SMP-12V-B(N)C          | 30.7   | 34.6              | 30.7                 | 34.8              | 30.7                 | 35.0              |
| 18       | SMP-18V-B(N)C          | 23.2   | 27.2              | 23.2                 | 27.4              | 23.2                 | 27.6              |

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.  
2. The strength of the panel must be considered when punching two or more holes.  
3. The connector must be inserted from the same side as the hole is punched.

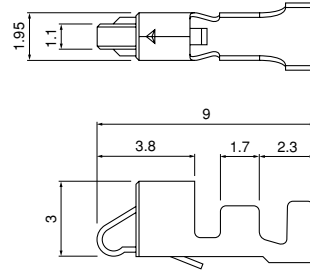
# SM CONNECTOR

## Contact

### Pin contact



### Socket contact



| Model No.            |                       | Applicable wire |       | Insulation O.D. (mm) | Q'ty / reel                                 |
|----------------------|-----------------------|-----------------|-------|----------------------|---|
| Pin contact          | Socket contact        | mm <sup>2</sup> | AWG # |                      |   |
| <b>SYM-001T-P0.6</b> | <b>SHF-001T-0.8BS</b> | 0.08~0.33       | 28~22 | 1.2~1.8              | Pin contact: 8,500<br>Socket contact: 5,000 |

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

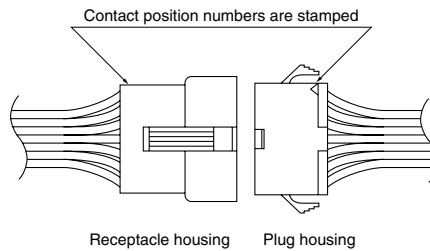
Note: 1. Contact JST for special products.  
2. Contact JST for brass products.

| Contact              | Crimping machine | Applicator       |               |                            |
|----------------------|------------------|------------------|---------------|----------------------------|
|                      |                  | Crimp applicator | Dies          | Crimp applicator with dies |
| <b>SYM-001T-P0.6</b> | AP-K2N           | MKS-L            | MK/SYM-001-06 | APLMK SYM001-06            |
|                      |                  | *MKS-SC          | SC/SYM-001-06 | APLSC SYM001-06            |

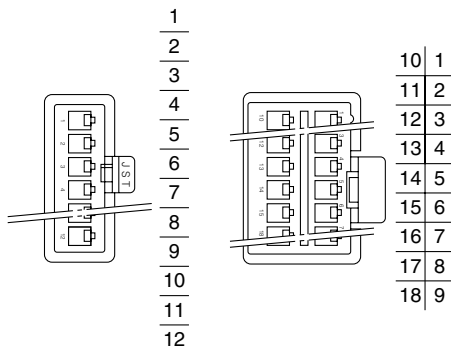
| Contact               | Crimping machine | Applicator       |                |                            |
|-----------------------|------------------|------------------|----------------|----------------------------|
|                       |                  | Crimp applicator | Dies           | Crimp applicator with dies |
| <b>SHF-001T-0.8BS</b> | AP-K2N           | MKS-L            | MK/SHF-001-08S | APLMK SHF001-08S           |
|                       |                  | *MKS-SC          | SC/SHF-001-08S | APLSC SHF001-08S           |

Note: \*Strip-crimp applicator

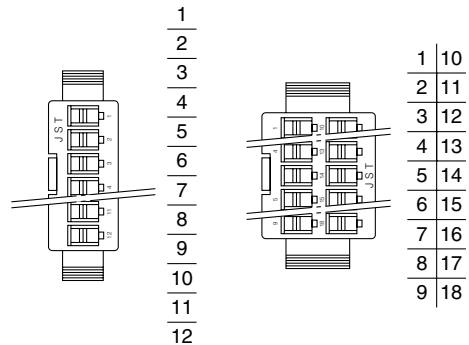
## Contact position location numbers



### Receptacle housing



### Plug housing

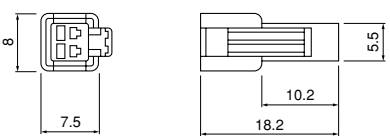
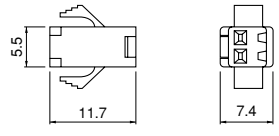
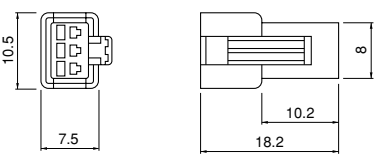
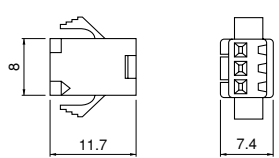
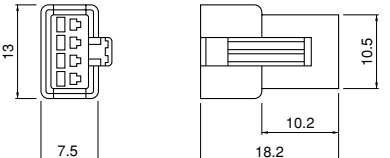
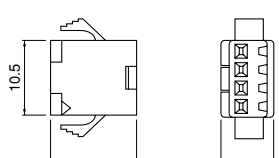
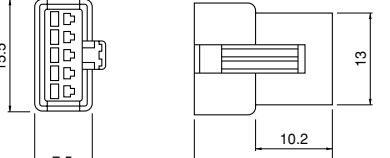
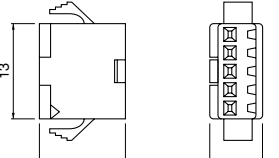
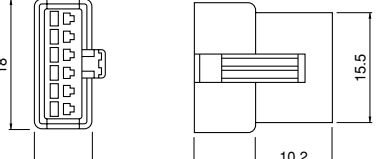
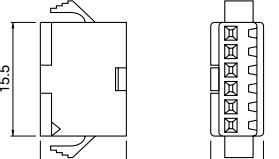




# SM CONNECTOR

## Housing

Material: PA 6, UL94V-0

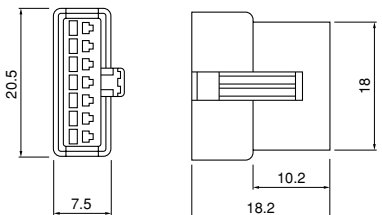
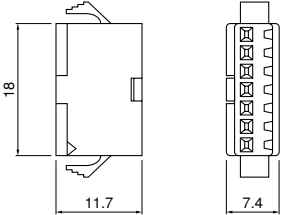
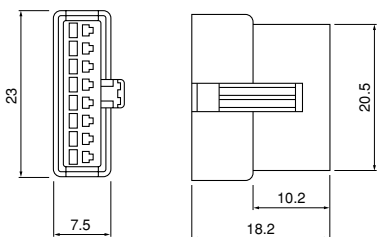
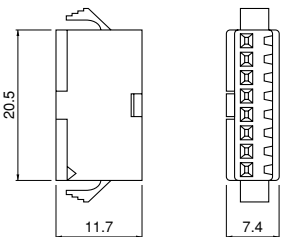
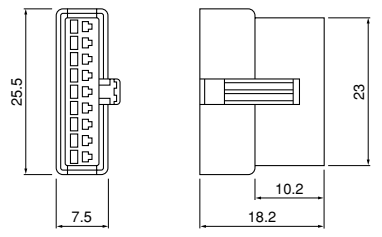
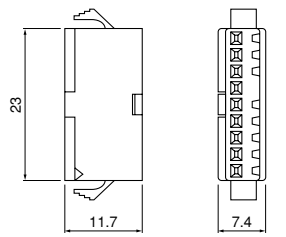
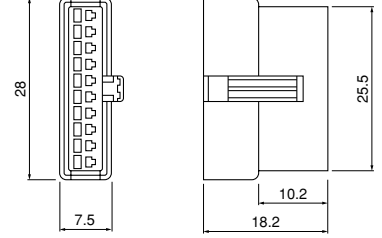
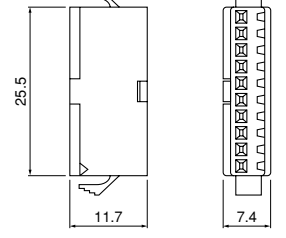
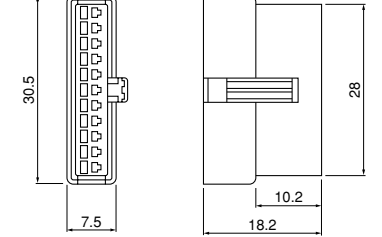
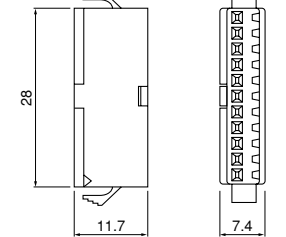
| Circuits | Current rating | Receptacle housing(for pin contact)   | Q'ty / bag | Plug housing(for socket contact)  | Q'ty / bag |
|----------|----------------|---|------------|---|------------|
| 2        | 3A             | <b>SMR-02V-B</b> , black<br><b>SMR-02V-N</b> , white (natural)<br>   | 1,000      | <b>SMP-02V-BC</b> , black<br><b>SMP-02V-NC</b> , white (natural)<br>   | 1,000      |
| 3        | 3A             | <b>SMR-03V-B</b> , black<br><b>SMR-03V-N</b> , white (natural)<br>   | 1,000      | <b>SMP-03V-BC</b> , black<br><b>SMP-03V-NC</b> , white (natural)<br>   | 1,000      |
| 4        | 3A             | <b>SMR-04V-B</b> , black<br><b>SMR-04V-N</b> , white (natural)<br> | 500        | <b>SMP-04V-BC</b> , black<br><b>SMP-04V-NC</b> , white (natural)<br> | 1,000      |
| 5        | 3A             | <b>SMR-05V-B</b> , black<br><b>SMR-05V-N</b> , white (natural)<br> | 500        | <b>SMP-05V-BC</b> , black<br><b>SMP-05V-NC</b> , white (natural)<br> | 1,000      |
| 6        | 3A             | <b>SMR-06V-B</b> , black<br><b>SMR-06V-N</b> , white (natural)<br> | 500        | <b>SMP-06V-BC</b> , black<br><b>SMP-06V-NC</b> , white (natural)<br> | 500        |

RoHS compliance

# SM CONNECTOR

## Housing

Material: PA 6, UL94V-0

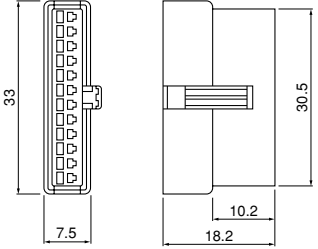
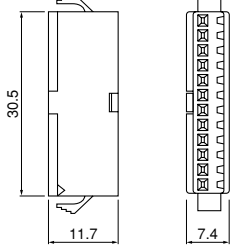
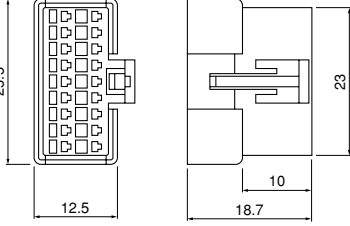
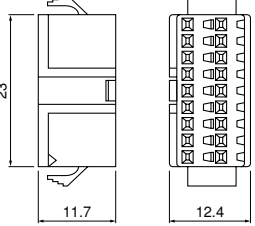
| Circuits | Current rating | Receptacle housing(for pin contact)  |                   | Plug housing(for socket contact)  |                   |
|----------|----------------|--|-------------------|---|-------------------|
| 7        | 3A             | <b>SMR-07V-B</b> , black<br><b>SMR-07V-N</b> , white (natural)    | Q'ty / bag<br>500 | <b>SMP-07V-BC</b> , black<br><b>SMP-07V-NC</b> , white (natural)    | Q'ty / bag<br>500 |
| 8        | 3A             | <b>SMR-08V-B</b> , black<br><b>SMR-08V-N</b> , white (natural)   | Q'ty / bag<br>500 | <b>SMP-08V-BC</b> , black<br><b>SMP-08V-NC</b> , white (natural)   | Q'ty / bag<br>500 |
| 9        | 3A             | <b>SMR-09V-B</b> , black<br><b>SMR-09V-N</b> , white (natural)  | Q'ty / bag<br>500 | <b>SMP-09V-BC</b> , black<br><b>SMP-09V-NC</b> , white (natural)  | Q'ty / bag<br>500 |
| 10       | 3A             | <b>SMR-10V-B</b> , black<br><b>SMR-10V-N</b> , white (natural)  | Q'ty / bag<br>200 | <b>SMP-10V-BC</b> , black<br><b>SMP-10V-NC</b> , white (natural)  | Q'ty / bag<br>500 |
| 11       | 3A             | <b>SMR-11V-B</b> , black<br><b>SMR-11V-N</b> , white (natural)  | Q'ty / bag<br>200 | <b>SMP-11V-BC</b> , black<br><b>SMP-11V-NC</b> , white (natural)  | Q'ty / bag<br>500 |

RoHS compliance

# SM CONNECTOR

## Housing

Material: PA 6, UL94V-0

| Circuits | Current rating | Receptacle housing(for pin contact)   | Q'ty / bag | Plug housing(for socket contact)  | Q'ty / bag |
|----------|----------------|---|------------|---|------------|
| 12       | 3A             | <b>SMR-12V-B, black</b><br><b>SMR-12V-N, white (natural)</b>   | 500        | <b>SMP-12V-BC, black</b><br><b>SMP-12V-NC, white (natural)</b>   | 500        |
| 18       | 2A             | <b>SMR-18V-B, black</b><br><b>SMR-18V-N, white (natural)</b>  | 200        | <b>SMP-18V-BC, black</b><br><b>SMP-18V-NC, white (natural)</b>  | 200        |

### RoHS compliance

Note: 1. SM connectors with any number of circuits can be used either panel mounted or free hanging.  
 2. Contact JST for special products.