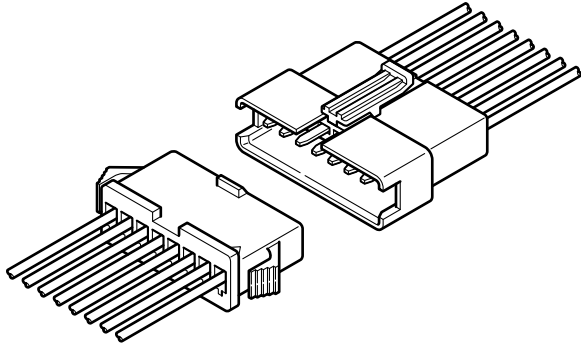




SM CONNECTOR

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



The SM series are 2.5 mm 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

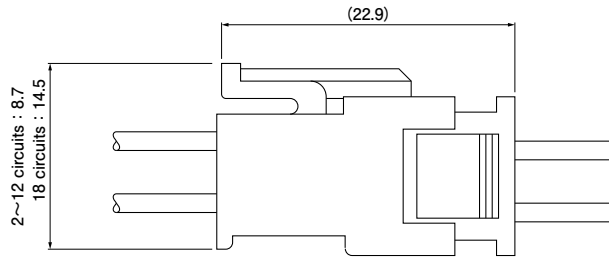
Specifications

- Current rating: 3 A AC/DC max.
 - Voltage rating: 250 V AC/DC max.
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
 - Insulation resistance: 500 MΩ min.
 - Withstanding voltage: 1,500 VAC/minute
 - Applicable wire: AWG #28 to #22
0.08 to 0.33 mm²
 - Applicable panel thickness: 0.5 to 2.0 mm
- * In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

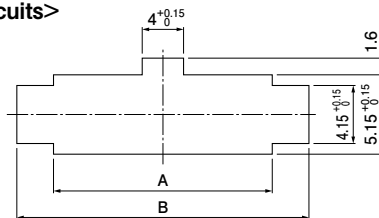
Standards

- Recognized E60389
- R50120150

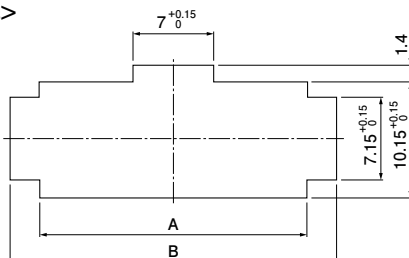
Panel Layout and Assembly layout



<2 to 12 circuits>



<18 circuits>



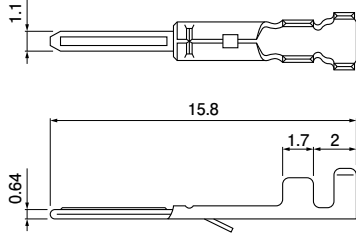
| No. of circuits | Model No. Plug housing | Panel thickness (mm) | | | | | |
|-----------------|---------------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|
| | | 0.5~0.9 | | 1.0~1.5 | | 1.5~2.0 | |
| | | Panel hole dimensions (mm) | | General tolerance | | | |
| | | A ^{+0.15} ₀ | B ^{±0.1} | A ^{+0.15} ₀ | B ^{±0.1} | A ^{+0.15} ₀ | B ^{±0.1} |
| 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.

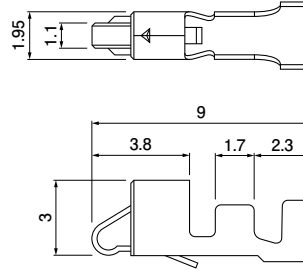
SM CONNECTOR

Contact

Pin contact



Socket contact



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

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

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

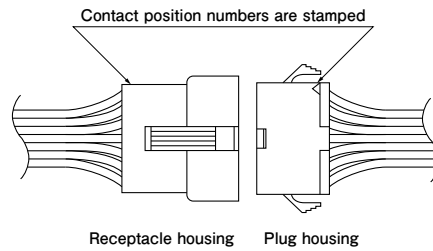
| Contact | Crimping machine | Applicator | | |
|---------------|------------------|------------------|---------------|----------------------------|
| | | Crimp applicator | Dies | Crimp applicator with dies |
| SYM-001T-P0.6 | AP-K2N | MKS-L | MK/SYM-001-06 | APLMK SYM001-06 |

Note: Contact JST for fully automatic crimping applicator.

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

Note: Contact JST for fully automatic crimping applicator.

Contact position location numbers



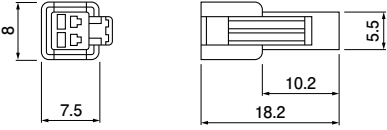
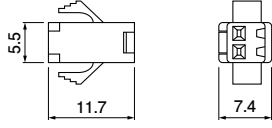
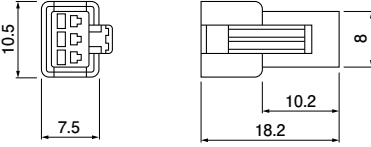
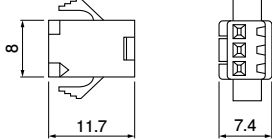
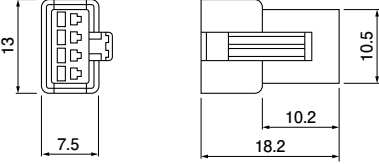
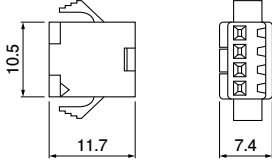
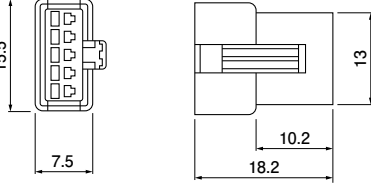
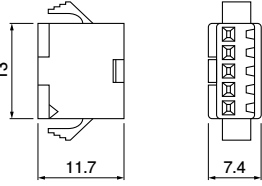
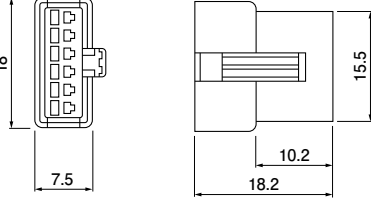
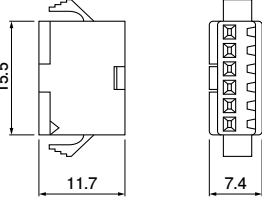
| Receptacle housing | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|--|----|--|----|--|
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| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 9 | | | | | | | | | | | | | | | | | | | | | | | | |

| Plug housing | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|--|----|--|----|--|
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| 1 | 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 18 | | | | | | | | | | | | | | | | | | | | | | | | |

SM CONNECTOR

Housing

Material: PA 6, UL94V-0

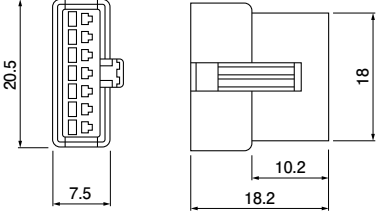
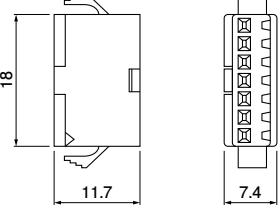
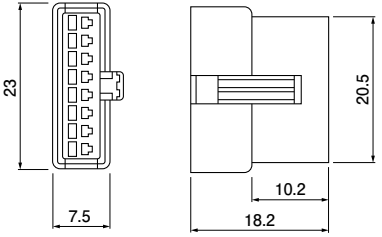
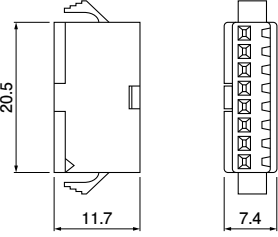
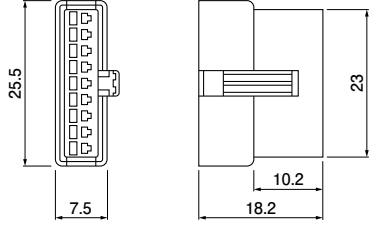
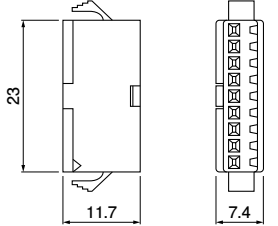
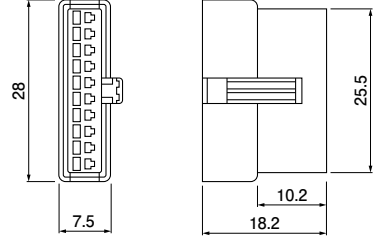
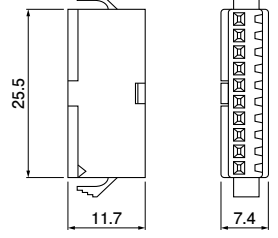
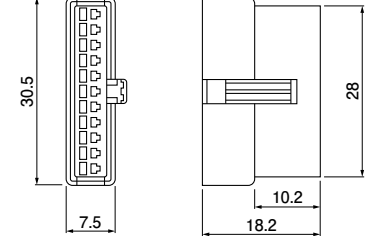
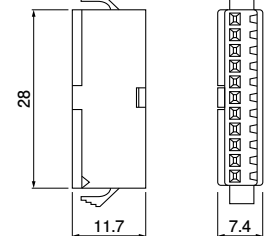
| No. of circuits | Current rating | Receptacle housing (for pin contact) | | Plug housing (for socket contact) | | |
|-----------------|----------------|---|-------|---|--|--------------|
| 2 | 3 A | SMR-02V-B, black SMR-02V-N, white (natural) | | Q'ty/ bag | SMP-02V-BC, black SMP-02V-NC, white (natural) | Q'ty/ bag |
| | |  | 1,000 |  | 1,000 | |
| 3 | 3 A | SMR-03V-B, black SMR-03V-N, white (natural) | | Q'ty/ bag | SMP-03V-BC, black SMP-03V-NC, white (natural) | Q'ty/ bag |
| | |  | 1,000 |  | 1,000 | |
| 4 | 3 A | SMR-04V-B, black SMR-04V-N, white (natural) | | Q'ty/ bag | SMP-04V-BC, black SMP-04V-NC, white (natural) | Q'ty/ bag |
| | |  | 500 |  | 1,000 | |
| 5 | 3 A | SMR-05V-B, black SMR-05V-N, white (natural) | | Q'ty/ bag | SMP-05V-BC, black SMP-05V-NC, white (natural) | Q'ty/ bag |
| | |  | 500 |  | 1,000 | |
| 6 | 3 A | SMR-06V-B, black SMR-06V-N, white (natural) | | Q'ty/ bag | SMP-06V-BC, black SMP-06V-NC, white (natural) | Q'ty/ bag |
| | |  | 500 |  | 500 | |

RoHS2 compliance

SM CONNECTOR

Housing

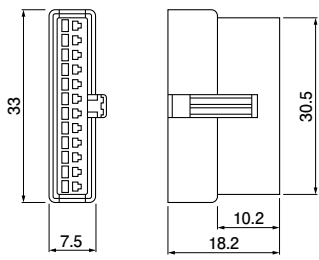
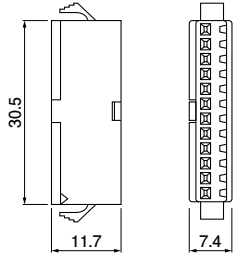
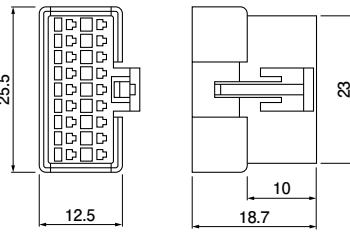
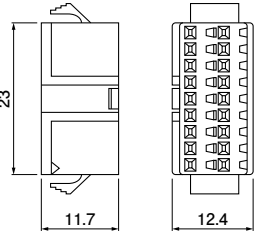
Material: PA 6, UL94V-0

| No. of circuits | Current rating | Receptacle housing (for pin contact) | | Plug housing (for socket contact) | | | |
|-----------------|----------------|--|---|-----------------------------------|--|--|--------------|
| 7 | 3 A | SMR-07V-B, black SMR-07V-N, white (natural) |  | Q'ty/ bag | SMP-07V-BC, black SMP-07V-NC, white (natural) |  | Q'ty/ bag |
| | | | | 500 | | | |
| 8 | 3 A | SMR-08V-B, black SMR-08V-N, white (natural) |  | Q'ty/ bag | SMP-08V-BC, black SMP-08V-NC, white (natural) |  | Q'ty/ bag |
| | | | | 500 | | | |
| 9 | 3 A | SMR-09V-B, black SMR-09V-N, white (natural) |  | Q'ty/ bag | SMP-09V-BC, black SMP-09V-NC, white (natural) |  | Q'ty/ bag |
| | | | | 500 | | | |
| 10 | 3 A | SMR-10V-B, black SMR-10V-N, white (natural) |  | Q'ty/ bag | SMP-10V-BC, black SMP-10V-NC, white (natural) |  | Q'ty/ bag |
| | | | | 200 | | | |
| 11 | 3 A | SMR-11V-B, black SMR-11V-N, white (natural) |  | Q'ty/ bag | SMP-11V-BC, black SMP-11V-NC, white (natural) |  | Q'ty/ bag |
| | | | | 200 | | | |

RoHS2 compliance

Housing

Material: PA 6, UL94V-0

| No. of circuits | Current rating | Receptacle housing (for pin contact) | | Plug housing (for socket contact) | |
|-----------------|----------------|---|--------------|---|--------------|
| 12 | 3 A | SMR-12V-B, black SMR-12V-N, white (natural)  | Q'ty/ bag | SMP-12V-BC, black SMP-12V-NC, white (natural)  | Q'ty/ bag |
| | | | | | |
| 18 | 2 A | SMR-18V-B, black SMR-18V-N, white (natural)  | Q'ty/ bag | SMP-18V-BC, black SMP-18V-NC, white (natural)  | Q'ty/ bag |
| | | | | | |

RoHS2 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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