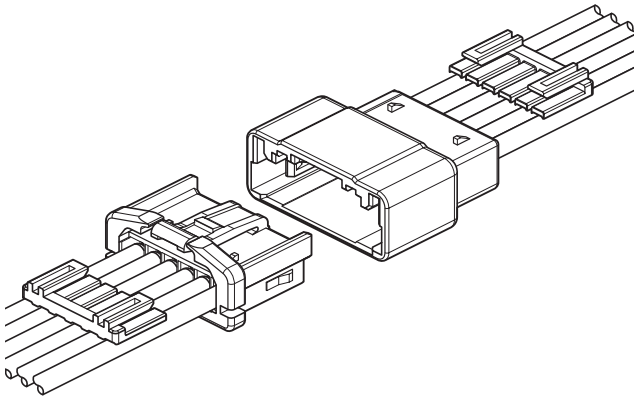


# XMA CONNECTOR

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



***This connector is a 2.5mm pitch wire-to-wire connector, having incomplete mating prevention mechanism. 2-circuit and 3-circuit connectors have control key to prevent connector from mating with incorrect circuits, thus, several same circuit connectors can be used.***

- ***Inertial lock structure with side lock mechanism***
- ***3 type combination of control key with one kind of circuit***
- ***Secure locking structure***
- ***Finger-friendly design***

## Specifications

- Current rating: 3A AC, DC (AWG#22)
- Voltage rating: 250V AC, DC
- 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#26 to #22  
0.13mm<sup>2</sup> to 0.33mm<sup>2</sup>
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

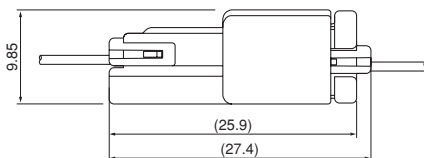
## Standards

Ⓜ Recognized E 60389

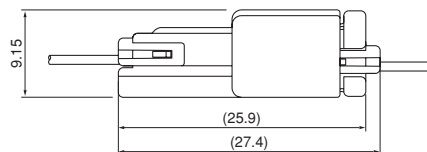
Ⓢ Certified LR20812

## Assembly layout

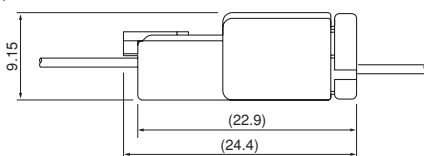
〈2, 3 circuits〉



〈4, 5 circuits〉



〈6 circuits〉

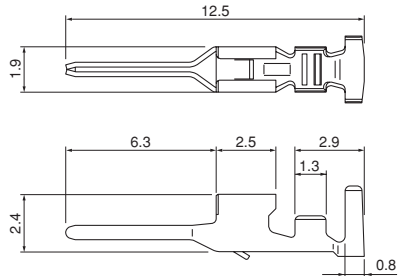


Note: The dimensions above should serve as a guideline. Contact JST for details.

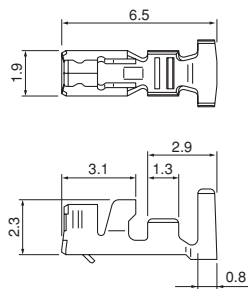
# XMA CONNECTOR

## Contact

### ● Pin contact



### ● Socket contact



| Model No.            |                       | Applicable wire |       | Insulation O.D.<br>(mm) | Q'ty / reel |                |
|----------------------|-----------------------|-----------------|-------|-------------------------|-------------|----------------|
| Pin contact          | Socket contact        | mm <sup>2</sup> | AWG # |                         | Pin contact | Socket contact |
| <b>SXM-001T-P0.6</b> | <b>SXA-001T-P0.6L</b> | 0.13~0.33       | 26~22 | 1.3~1.9                 | 7,000       | 8,000          |

### Material and Finish

Copper alloy, tin-plated (reflow treatment)

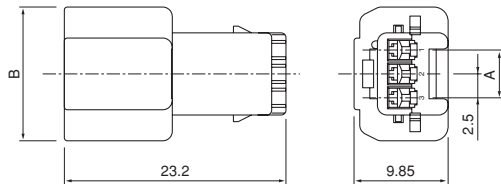
### RoHS compliance

| Contact               | Crimping machine | Applicator       |                 |                            |
|-----------------------|------------------|------------------|-----------------|----------------------------|
|                       |                  | Crimp applicator | Dies            | Crimp applicator with dies |
| <b>SXM-001T-P0.6</b>  | AP-K2N           | MKS-L            | MK/SXA/M-001-06 | APLMK SXA/M001-06          |
|                       |                  | *MKS-SC          | SC/SXA/M-001-06 | APLSC SXA/M001-06          |
| <b>SXA-001T-P0.6L</b> |                  | MKS-L            | MK/SXA-001-06L  | APLMK SXA001-06L           |
|                       |                  | *MKS-SC          | SC/SXA-001-06L  | APLSC SXA001-06L           |

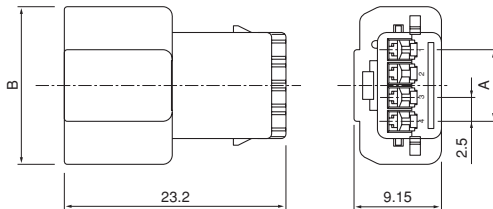
Note: \*Strip-crimp applicator

## Receptacle housing (for pin contact)

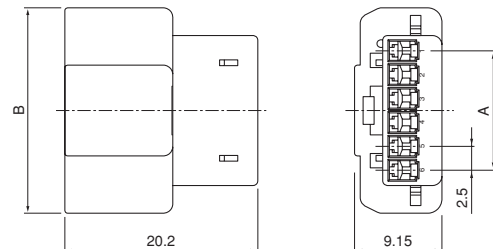
### <2, 3 circuits>



### <4, 5 circuits>



### <6 circuits>



| Circuits | Model No.            | Color           | Dimensions (mm) |      | Q'ty / bag |
|----------|----------------------|-----------------|-----------------|------|------------|
|          |                      |                 | A               | B    |            |
| 2        | <b>XMAR-02VF-1-S</b> | Natural (white) | 2.5             | 12.5 | 1,000      |
|          | <b>XMAR-02VF-2-R</b> | Red             |                 |      |            |
|          | <b>XMAR-02VF-3-E</b> | Blue            |                 |      |            |
| 3        | <b>XMAR-03VF-1-S</b> | Natural (white) | 5.0             | 14.0 | 1,000      |
|          | <b>XMAR-03VF-2-R</b> | Red             |                 |      |            |
|          | <b>XMAR-03VF-3-E</b> | Blue            |                 |      |            |
| 4        | <b>XMAR-04VF-S</b>   | Natural (white) | 7.5             | 16.5 | 500        |
| 5        | <b>XMAR-05VF-S</b>   | Natural (white) | 10.0            | 19.0 | 500        |
| 6        | <b>XMAR-06VF-S</b>   | Natural (white) | 12.5            | 21.5 | 500        |

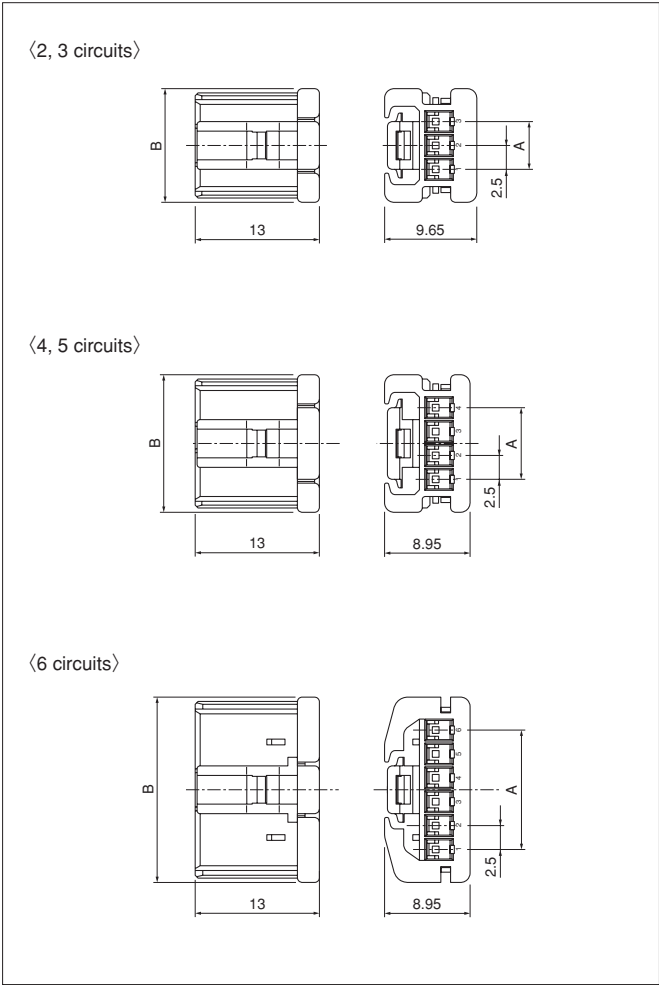
### Material

Glass-filled PBT, UL94V-0

### RoHS compliance

# XMA CONNECTOR

## Plug housing (for socket contact)



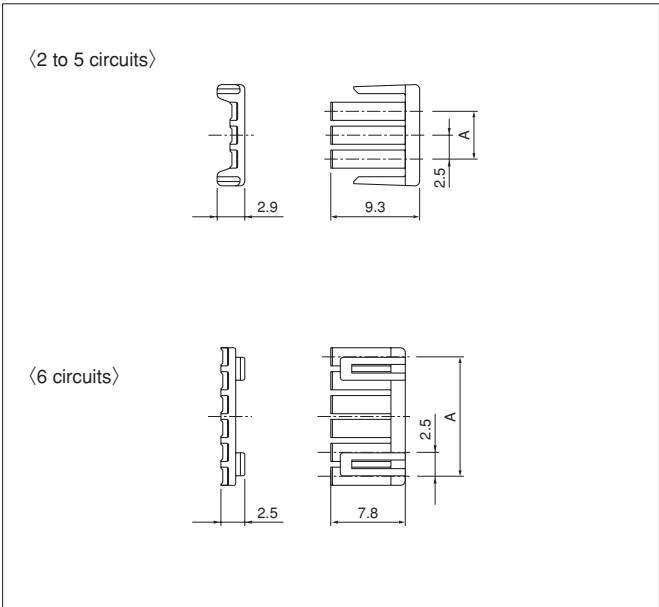
| Circuits | Model No.    | Color           | Dimensions (mm) |      | Q'ty / bag |
|----------|--------------|-----------------|-----------------|------|------------|
|          |              |                 | A               | B    |            |
| 2        | XMAP-02V-1-S | Natural (white) | 2.5             | 9.4  | 1,000      |
|          | XMAP-02V-2-R | Red             |                 |      |            |
|          | XMAP-02V-3-E | Blue            |                 |      |            |
| 3        | XMAP-03V-1-S | Natural (white) | 5.0             | 11.9 | 1,000      |
|          | XMAP-03V-2-R | Red             |                 |      |            |
|          | XMAP-03V-3-E | Blue            |                 |      |            |
| 4        | XMAP-04V-S   | Natural (white) | 7.5             | 14.4 | 1,000      |
| 5        | XMAP-05V-S   | Natural (white) | 10.0            | 16.9 | 500        |
| 6        | XMAP-06V-S   | Natural (white) | 12.5            | 19.4 | 500        |

### Material

Glass-filled PBT, UL94V-0

RoHS compliance

## Retainer



| Circuits | Model No.  | Color           | Dimensions (mm) | Q'ty / bag |
|----------|------------|-----------------|-----------------|------------|
|          |            |                 | A               |            |
| 2        | XMAS-02V-S | Natural (ivory) | 2.5             | 1,000      |
| 3        | XMAS-03V-S | Natural (ivory) | 5.0             | 1,000      |
| 4        | XMAS-04V-S | Natural (ivory) | 7.5             | 1,000      |
| 5        | XMAS-05V-S | Natural (ivory) | 10.0            | 1,000      |
| 6        | XMS-06V    | Natural (ivory) | 12.5            | 1,000      |

### Material

Glass-filled PA 66, UL94V-0

RoHS compliance

Note: 6 circuits of retainer is interchangeable with those of the XM and XA connectors.