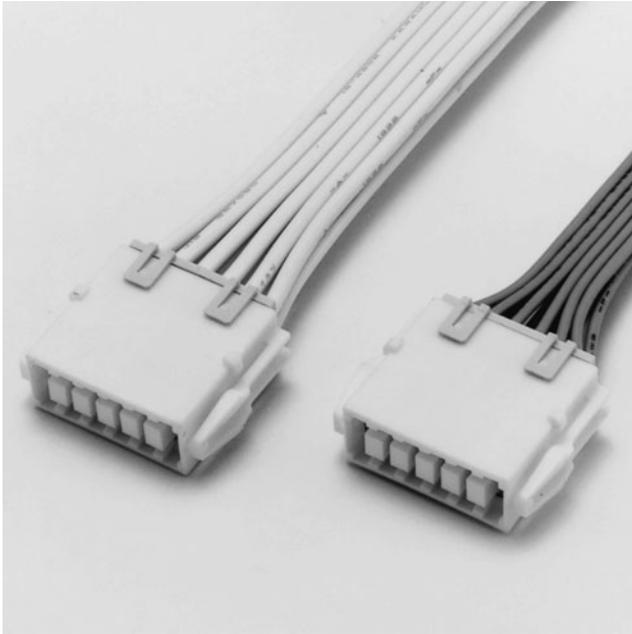


# BL CONNECTOR

Wire-to-wire connector for short-circuit connection



## Features

### • For short-circuit connection

Tab contacts for short-circuit connection are to be mounted in the housing.

### • Housing lance

The resilient plastic housing lances secure the contacts in the housing. Since the lances are in the housings rather than on the contacts, they are not affected by handling, and allow the contacts to be lightly inserted without undue force. This establishes a feeling of uniform insertion and a noticeable change in that feeling when insertion is completed.

### • Secondary retainers

The secondary retainers enhance safety in case of partial insertion or accidental release of the contact. Even if a contact is inserted incompletely, the retainer guides the contact to the proper position and securely locks it in place.

### • Panel lock construction

Our unique compact panel lock is designed to prevent tangling with wires and accidental breakage because of handling.

### • Tab contact built-in type is available

Connectors with contacts already built-in can be supplied too. Place orders with model numbers exclusively allocated to them.

## Specifications

- Current rating: 7A AC, DC max./ line
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.  
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18  
0.3 to 0.75mm<sup>2</sup>
- Applicable panel thickness: 0.7 to 2.0mm
- \* RoHS compliant products are published.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

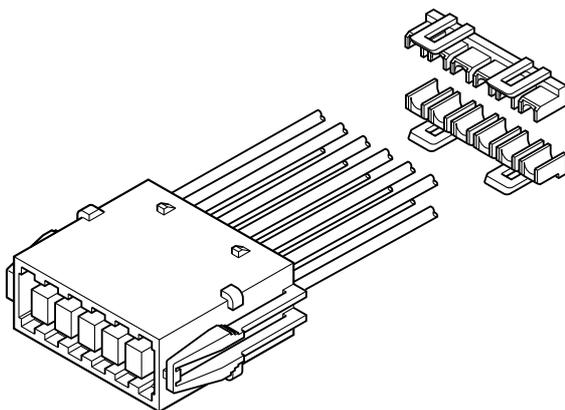
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and wire size. Current unit: A

| Circuits | Wire size (AWG) |     |     |
|----------|-----------------|-----|-----|
|          | #18             | #20 | #22 |
| 8,12     | 7               | 5   | 4   |

## Standards

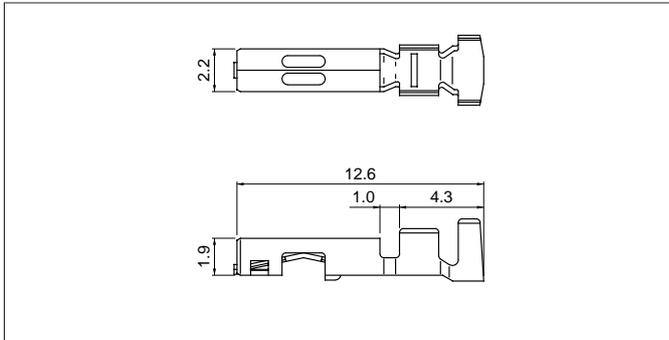
Recognized E60389

Certified LR20812



# BL CONNECTOR

## Contact



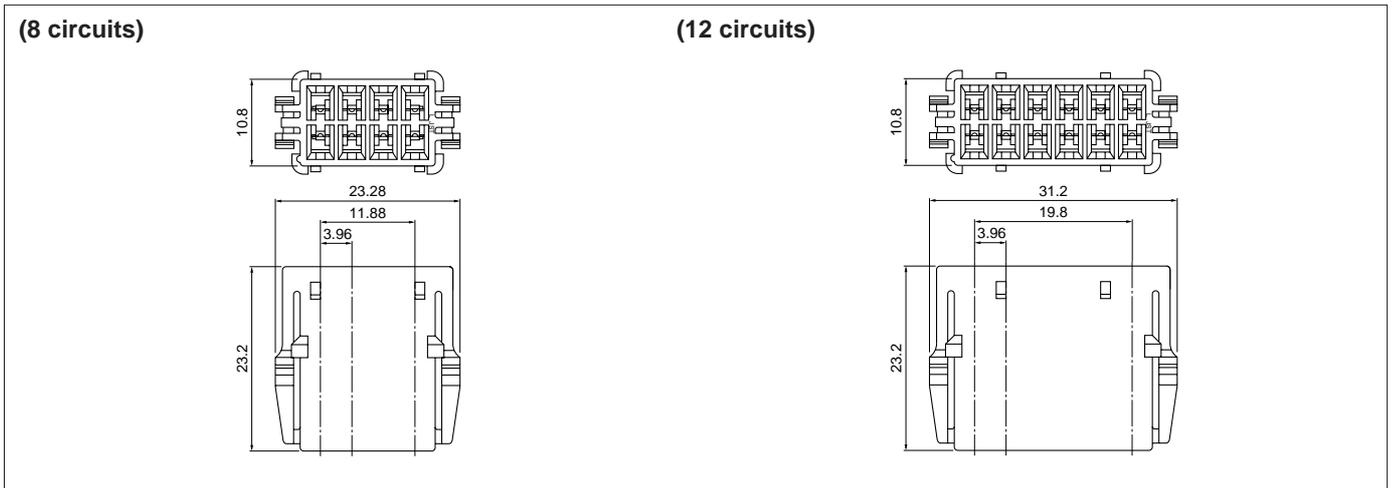
| Model No.           | Applicable wire |          |                      | Q'ty / reel |
|---------------------|-----------------|----------|----------------------|-------------|
|                     | mm <sup>2</sup> | AWG #    | Insulation O.D. (mm) |             |
| <b>SSF-21T-P1.4</b> | 0.3 to 0.75     | 22 to 18 | 1.5 to 2.2           | 6,000       |

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

*RoHS compliance*

## Housing



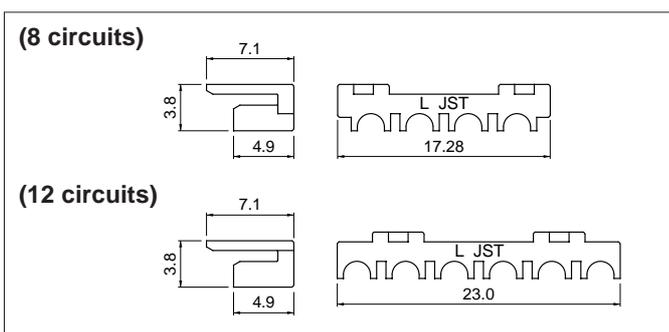
| Circuits | Model No.     | Q'ty / bag |
|----------|---------------|------------|
| 8        | <b>BL-08V</b> | 100        |
| 12       | <b>BL-12V</b> | 100        |

### Material

PA 66, UL94V-0

*RoHS compliance*

## Retainer



| Circuits | Model No.      | Q'ty / bag |
|----------|----------------|------------|
| 8        | <b>HLS-08V</b> | 1,000      |
| 12       | <b>HLS-12V</b> | 1,000      |

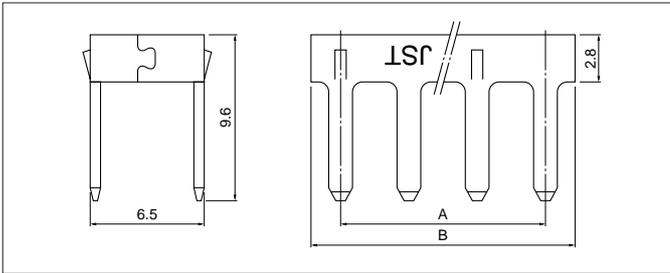
### Material

Glass-filled PA 66, UL94V-0

*RoHS compliance*

# BL CONNECTOR

## Tab contact



| Circuits | Model No.          | Dimensions (mm) |       | Q'ty / box |
|----------|--------------------|-----------------|-------|------------|
|          |                    | A               | B     |            |
| 8        | <b>BLT-08T-0.5</b> | 11.88           | 15.08 | 500        |
| 12       | <b>BLT-12T-0.5</b> | 19.80           | 23.00 | 250        |

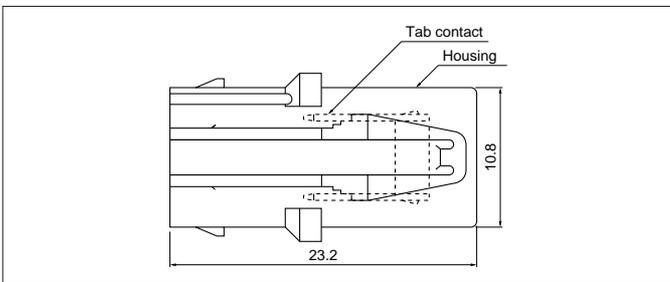
### Material and Finish

Brass, tin-plated (reflow treatment)

### RoHS compliance

Note: Contact JST for the jig to mount the tab contact onto the housing.

## Tab contact built-in product



| Circuits | Model No.        | Q'ty / box |
|----------|------------------|------------|
| 8        | <b>BL-08V ST</b> | 100        |
| 12       | <b>BL-12V ST</b> | 100        |

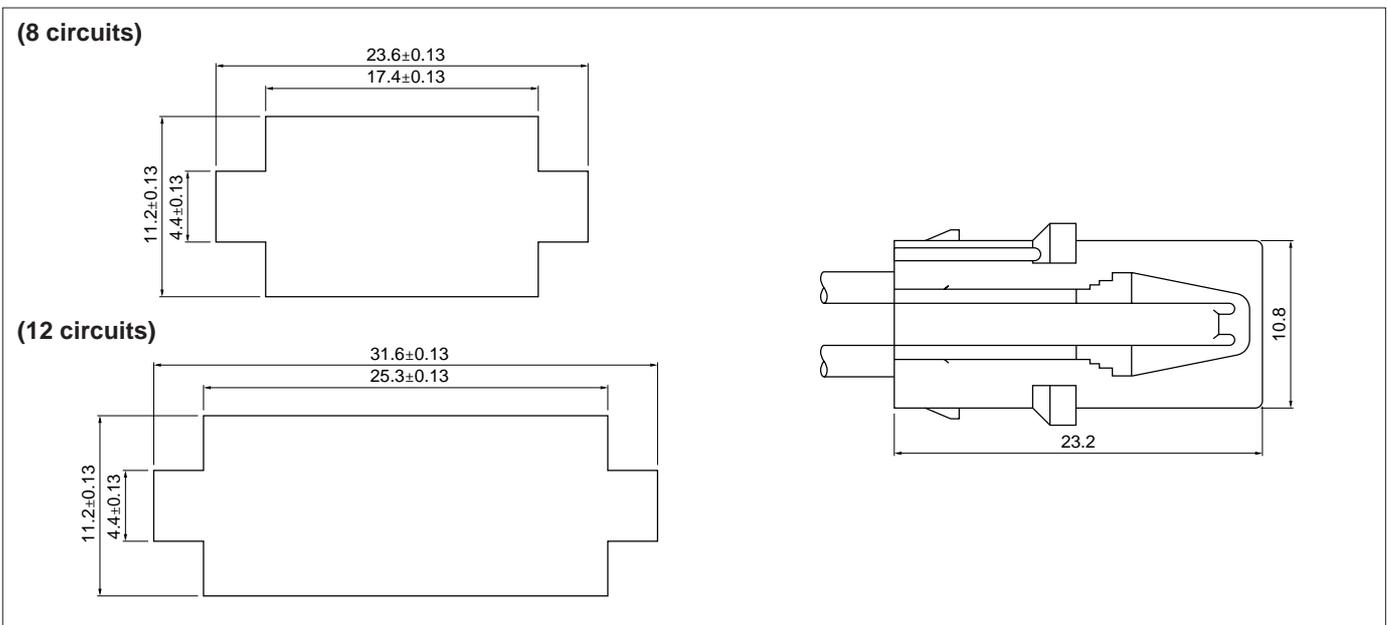
### Material and Finish

Housing: PA 66, UL94V-0  
Tab contact: Brass, tin-plated (reflow treatment)

### RoHS compliance

Note: The above housings are tab contact built-in product.

## Panel layout and Assembly layout



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.

## Crimping machine, Applicator

| Contact      | Crimping machine | Crimp applicator | Dies           | Crimp applicator with dies |
|--------------|------------------|------------------|----------------|----------------------------|
| SSF-21T-P1.4 | AP-K2N           | MKS-L            | MK/SSF/M-21-14 | APLMK SSF/M21-14           |