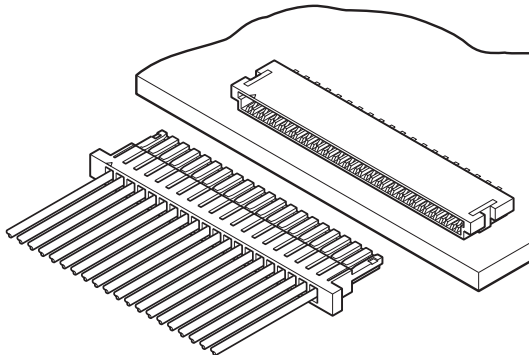


# SHL CONNECTOR

1.0 mm pitch/Wire-to-Board connectors/Crimp style and Mating style



This is an ultra-thin 1.0 mm pitch wire-to-board connector for thinner and smaller devices, with a mounting height of 1.8 mm for the normal type and 1.4 mm for the offset type.

- Ultra-thin design
- Low insertion force  
(excellent mating workability)
- Resistance to mating/unmating operation with prying

## Standards

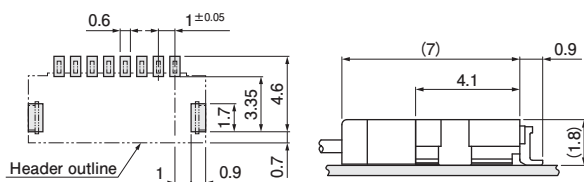
☞ :Recognized E 60389

## Specifications

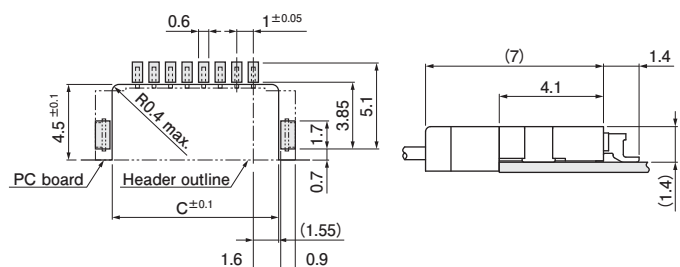
- Current rating: 1.0 A AC/DC (AWG #28)
- Voltage rating: 50 V AC/DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance:
  - Initial value/ 20 mΩ max.
  - After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:
  - There shall be no breakdown or flashover while applying 500 VAC for one minute.
- Applicable wire range:
  - Conductor size/ AWG #32 to AWG #28
  - Insulation O.D. /  $\phi$  0.4 mm to  $\phi$  0.8 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.

## PC board layout and Assembly layout

### Normal type



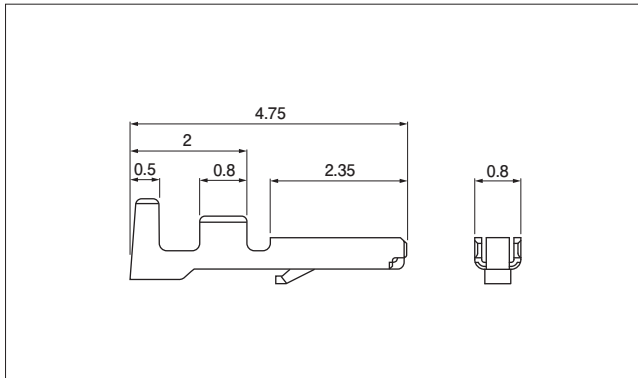
### Offset type



- Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.  
 2. Tolerance for the PCB pattern pitch shall be  $\pm 0.05$  and shall not accumulate.  
 3. Dimension C: Notch width on PCB  
 See "Header/ Offset type" section on page 3.  
 4. The above dimensions are reference values. Please contact JST for details.

# SHL CONNECTOR

## Contact



| Model No.      | Applicable wire range                    |                         | Q'ty/<br>reel |
|----------------|------------------------------------------|-------------------------|---------------|
|                | Conductor size<br>AWG (mm <sup>2</sup> ) | Insulation O.D.<br>(mm) |               |
| SSHL-003T-P0.2 | #32 to #28 (0.032 to 0.08)               | 0.4 to 0.8              | 41,000        |

Material and Surface finish, etc.

Phosphor bronze, tin-plated

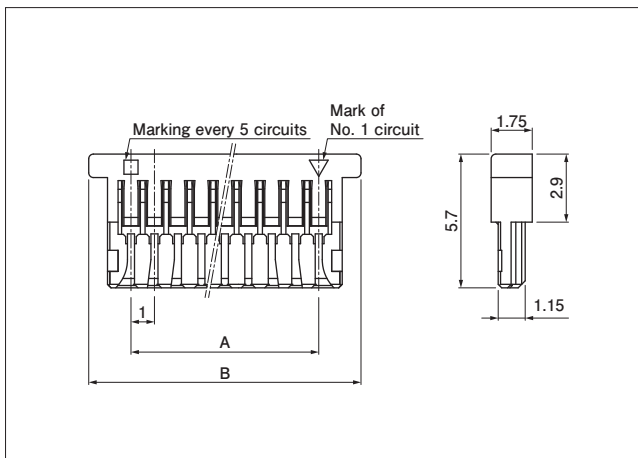
Note: Contact JST for gold-plated products.

### Crimping machine

| Contact        | Crimping<br>machine | Applicator | Crimp applicator with dies |
|----------------|---------------------|------------|----------------------------|
| SSHL-003T-P0.2 | AP-K2N              | MKS-L-10-3 | APLMK SSH/L003-02          |

Note: Contact JST for fully automatic crimping applicator.

## Socket housing



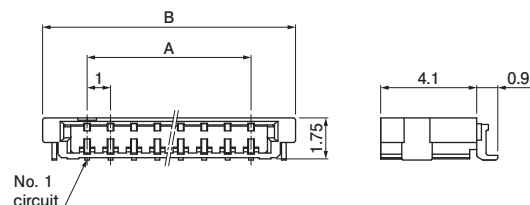
| No. of<br>circuits | Model No.    | Dimensions (mm) |      | Q'ty/box |
|--------------------|--------------|-----------------|------|----------|
|                    |              | A               | B    |          |
| 2                  | SHLP-02V-S-B | 1.0             | 4.6  | 6,000    |
| 5                  | SHLP-05V-S-B | 4.0             | 7.6  | 3,000    |
| 6                  | SHLP-06V-S-B | 5.0             | 8.6  | 3,000    |
| 7                  | SHLP-07V-S-B | 6.0             | 9.6  | 3,000    |
| 8                  | SHLP-08V-S-B | 7.0             | 10.6 | 3,000    |
| 10                 | SHLP-10V-S-B | 9.0             | 12.6 | 2,000    |
| 11                 | SHLP-11V-S-B | 10.0            | 13.6 | 2,000    |
| 12                 | SHLP-12V-S-B | 11.0            | 14.6 | 2,000    |
| 14                 | SHLP-14V-S-B | 13.0            | 16.6 | 2,000    |
| 16                 | SHLP-16V-S-B | 15.0            | 18.6 | 1,000    |
| 20                 | SHLP-20V-S-B | 19.0            | 22.6 | 1,000    |
| 22                 | SHLP-22V-S-B | 21.0            | 24.6 | 1,000    |
| 26                 | SHLP-26V-S-B | 25.0            | 28.6 | 1,000    |
| 30                 | SHLP-30V-S-B | 29.0            | 32.6 | 1,000    |

Material and Surface finish, etc.

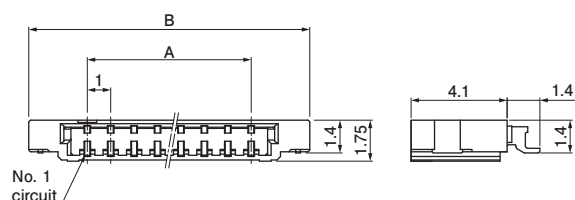
PBT, UL94V-0, natural (white)

## Header

### Normal type



### Offset type



### Normal type

| No. of circuits | Model No.     | Dimensions (mm) |      | Q'ty/reel |
|-----------------|---------------|-----------------|------|-----------|
|                 |               | A               | B    |           |
| 2               | SM02B-SHLS-TF | 1.0             | 4.8  | 4,500     |
| 5               | SM05B-SHLS-TF | 4.0             | 7.8  | 4,500     |
| 6               | SM06B-SHLS-TF | 5.0             | 8.8  | 4,500     |
| 7               | SM07B-SHLS-TF | 6.0             | 9.8  | 4,500     |
| 8               | SM08B-SHLS-TF | 7.0             | 10.8 | 4,500     |
| 10              | SM10B-SHLS-TF | 9.0             | 12.8 | 4,500     |
| 11              | SM11B-SHLS-TF | 10.0            | 13.8 | 4,500     |
| 12              | SM12B-SHLS-TF | 11.0            | 14.8 | 4,500     |
| 14              | SM14B-SHLS-TF | 13.0            | 16.8 | 4,500     |
| 16              | SM16B-SHLS-TF | 15.0            | 18.8 | 4,500     |
| 20              | SM20B-SHLS-TF | 19.0            | 22.8 | 4,500     |
| 22              | SM22B-SHLS-TF | 21.0            | 24.8 | 4,500     |
| 26              | SM26B-SHLS-TF | 25.0            | 28.8 | 4,500     |
| 30              | SM30B-SHLS-TF | 29.0            | 32.8 | 4,500     |

#### Material and Surface finish, etc.

Base contact: Phosphor bronze, copper-undercoated, tin-plated  
 Wafer: PA, UL94V-0, natural (ivory)  
 Solder tab: Brass, copper-undercoated, tin-plated

Note: 1. This product displays (LF)(SN) on a label.  
 2. Contact JST for gold-plated products.

### Offset type

| No. of circuits | Model No.       | Dimensions (mm) |      |      | Q'ty/reel |
|-----------------|-----------------|-----------------|------|------|-----------|
|                 |                 | A               | B    | C    |           |
| 8               | SM08B-SHLS-1-TF | 7.0             | 12.0 | 10.1 | 4,500     |
| 20              | SM20B-SHLS-1-TF | 19.0            | 24.0 | 22.1 | 4,500     |

#### Material and Surface finish, etc.

Base contact: Phosphor bronze, copper-undercoated, tin-plated  
 Wafer: PA, UL94V-0, natural (ivory)  
 Solder tab: Brass, copper-undercoated, tin-plated

Note: 1. This product displays (LF)(SN) on a label.  
 2. Dimension C: Notch width on PCB  
 See "PC board layout/ Offset type" section on page 1.  
 3. Contact JST for gold-plated products.

Model number allocation

Contaact

S SHL - 003 T - P 0.2

Supply form: Strip form

Series name

Applicable wire range: AWG #32 to AWG #28

Surface finish:

T...Tin-plated

GA1...Nickel-undercoated selective gold-plated

Material: Phosphor bronze

Applicable contact size

Socket housing

SHL P - 20 V - S - B

Series name

Type: Socket

No. of circuits

Flammability: UL94V-0

Color: Natural (White)

Supplementary symbol

Header

SM 20 B-SHLS - - -TF

Header type: SMT side entry type

No. of circuits

Assembly product

Series name

Color: Natural (Ivory)

Surface finish: Blank...Copper-undercoated tin-plated  
G...Nickel-undercoated gold-plated

Mounting method: Blank...Normal type  
1...Offset type

Packaging style: Embossed-taping