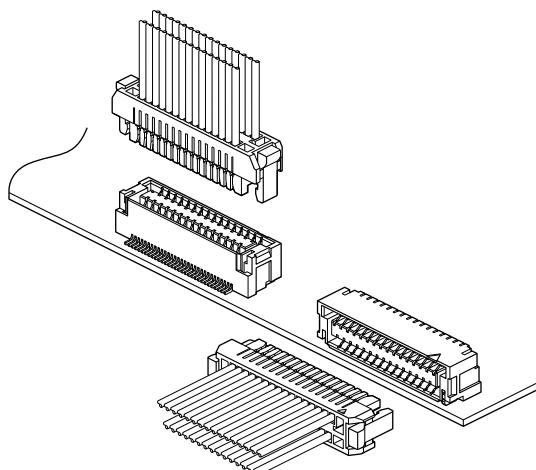


# SHLV CONNECTOR



1.0 mm pitch/Disconnectable Crimp style connectors

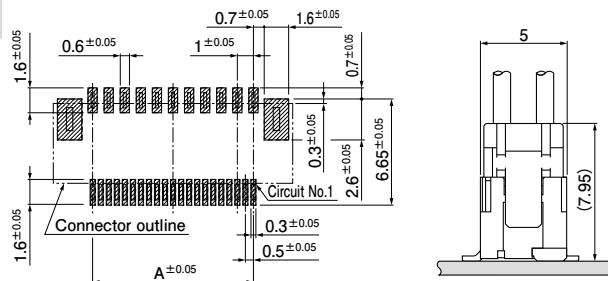


This is the wire to board connector corresponding to the high frequency transmission (LVDS: Low Voltage Differential Signaling) with a lot of adoption for PDP, LCD - TV and so on. This connector was developed to have excellent workability, strength and cost performance. This connector is used not only for LVDS, but also for multi - circuits connector (small and space saving type) in normal circuit.

- Corresponding to LVDS (Low Voltage Differential Signaling)
- Secure locking structure
- Connector strength
- Contact locking structure

## PC board layout and Assembly layout

### Top entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.

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

## Specifications

- Current rating: 1.0 A AC/DC (AWG #28)
- Voltage rating: 30 V AC/DC
- Temperature range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 m $\Omega$  max.  
After environmental tests/ 50 m $\Omega$  max.
- Insulation resistance: 100 M $\Omega$  min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28  
Insulation O.D./ 0.4 to 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

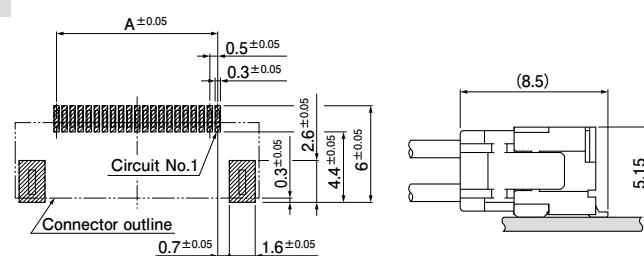
\* Dimensional unit: mm

\* Contact JST for details.

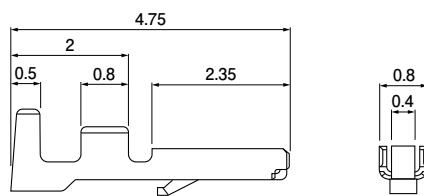
## Standards

■ Recognized E60389

### Side entry type



## Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm <sup>2</sup>	AWG #		
SSH-003GA1-P0.2	0.032 to 0.08	32 to 28	0.4 to 0.8	41,000

### Material and Finish

Phosphor bronze, nickel-undercoated, Mating part: gold-plated,  
Crimping part: gold-plated

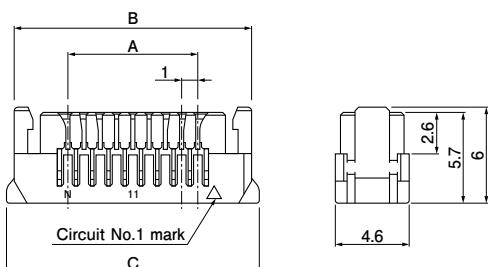
### RoHS2 compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH-L-003-02	APLMK SSH/L003-02

Note: Contact JST for fully automatic crimping applicator.

## Housing

### With secure lock



No. of circuits	Model No.	Dimensions (mm)			Q'ty/bag
		A	B	C	
21	SHLVP-21V-S-1	10.0	16.7	17.7	3,000
31	SHLVP-31V-S-1	15.0	21.7	22.7	2,000

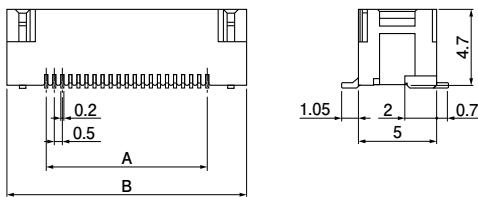
### Material and Finish

PBT, UL94V-0, natural (white)

### RoHS2 compliance

## Header

### Top entry type



No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
21	BM21B-SHLVS-G-TBT	10.0	15.0	1,500
31	BM31B-SHLVS-G-TBT	15.0	20.0	1,500

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
21	SM21B-SHLVS-G-TB	10.0	15.0	2,000
31	SM31B-SHLVS-G-TB	15.0	20.0	2,000

### Material and Finish

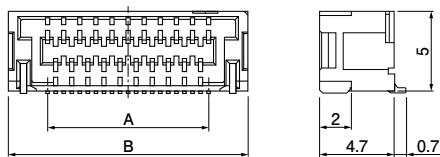
Contact: Phosphor bronze, nickel-undercoated, gold-plated

Wafer: Polyamide, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS2 compliance** This product displays (LF)(SN) on a label.  
The products listed above are supplied on embossed-tape.

### Side entry type



# SHLV CONNECTOR

## Model number allocation

### Contact

**S SHL - 003 GA1 - P 0.2**

Form: S···Strip form

Series name

Applicable wire range: AWG #32 to #28

Surface finish:

GA1···Nickel-undercoated selective gold-plated

Material: P···Phosphor bronze

Terminal size

### Housing

**SHLV P - 21 V - S - 1**

Series name

Part name: Socket

No. of circuits: 21, 31

Flammability: V···UL94V-0

Color: S···Natural (White), LE···Light blue

Sub model number: 1···With secure lock, None···Without secure lock

### Header

**BM 21B-SHLV S-A-G-TB T**

Shape of assembled product:

BM···SMT top entry type

SM···SMT side entry type

No. of circuits:

Top entry type···21, 31

Side entry type···21, 31

Part name: Header

Series name

Color: S···Natural (Ivory), LE···Light blue

With/Without boss: A···With boss, None···Without boss

Surface finish: G···Nickel-undercoated gold-plated

Packaging style: TB···Embossed-taping, None···Loose pieces

Suction tape: T···With suction tape (only top entry type)

None···Without suction tape