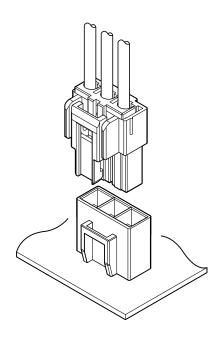


6.2 mm pitch/Disconnectable Crimp style connectors



This VL connector is 6.2 mm pitch wire-toboard connector. The connector suitable for the high current has been realized by using highly-conducting material.

- High current up to 23 A can be applied.
- Secure housing lance for easy inserting contacts into housing
- Lineup of retainers that improve mechanical reliability
- Contact and housing are common with wireto-wire connection.

### Standards

Recognized E 60389 : Certified LR 20812

△: R9351103

## Specifications

Current rating: 23 A AC/DC (2 circuits/ AWG #12) The following table shows the rated current when applying current for all circuits in each combination of the number of circuits and the wire to be used.

Unit: A

No. of	Wire size (AWG)					
circuits	#12	#14	#16	#18	#20	
2	23	18	15	11	9	
3	22	17	14	10	8	
4	21	16	13	9	8	

Note 1. Applicable range of rated current:

The rated current mentioned above is applied only in the combination of contact and header for high current specified in this catalogue.

When either is a normal type product, please be careful because the rated current of the normal type product is applied.

Note 2. Notes on parallel branching current:

Do not branch to the multiple circuits in parallel current which is exceeds the rated current, as it may cause problems such as imbalance when applying current.

If it is unavoidable that branch in parallel is necessary, design the circuits while suppressing the unbalanced current and proving the sufficient margin to the rated current.

Voltage rating: 600 V AC/DC

• Temperature range: -25°C to +90°C

(including temperature rise in applying electrical current)

· Contact resistance:

Initial value/  $7 \text{ m}\Omega$  max.

After environmental tests/  $10 \ m\Omega$  max.

• Insulation resistance: 1,000  $M\Omega\,$  min.

• Withstanding voltage: 2,000 VAC/minute

Applicable wire: AWG #20 to #12

Applicable PC board thickness: 1.6 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

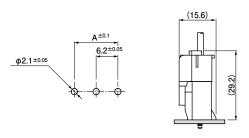
\*Contact JST for details.

**JST** 

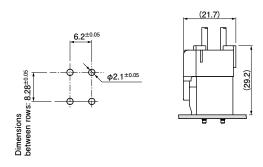
### PC board layout and Assembly layout

### Top entry type

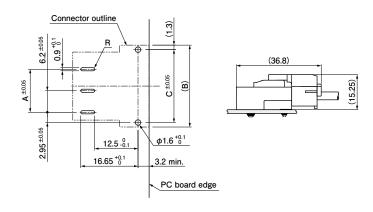
### <2, 3, 4 (Single row) circuits>



#### <4 circuits (Dual rows) >



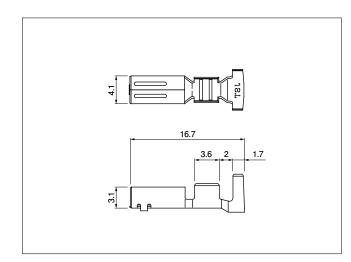
#### Side entry type



Note: 1. The PC board layout is the figure viewed from the connector mounting side.

- 2. A, B and C dimensions: See the section on header on pages 4 and 5.
- 3. Tolerance for the drilling hole pitch on PCB is  $\pm$  0.05 throughout, and shall not be cumulative over than  $\pm$  0.1 for the top entry type and over than  $\pm$  0.05 for the side entry type.
- 4. Hole dimensions differ according to the type of PC board and piercing method. Please contact JST for details as the dimensions shown in the above figure are reference values.

### Contact



Model No.	Applicable wire	Q'ty/	
woder no.	Conductor size AWG (mm²)	Insulation O.D. (mm)	reel
SVSF-61T-S2.0	#20 to #14 (0.5 to 2.0)	1.9 to 3.4	2,000
SVSF-81T-S2.0	#12 (3.5)	4.1	2,000

Material and Finish

Copper alloy, tin-plated

RoHS2 compliance

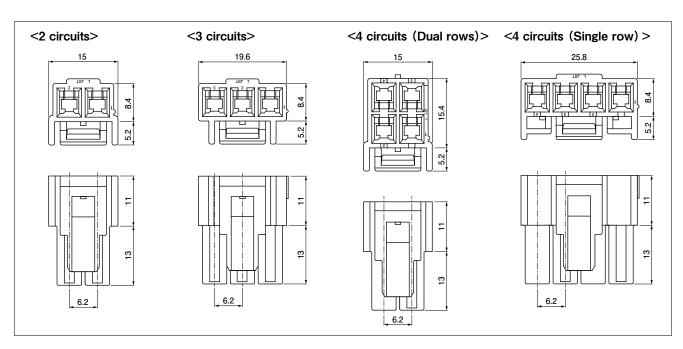
#### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SVSF-61T-S2.0	AP-K2N	MKS-L	APLMK SVF/M61-20
SVSF-81T-S2.0	AP-NZIN		APLMK SVF/M81-20

Note: Contact JST for fully automatic crimping applicator.

JST

# Housing

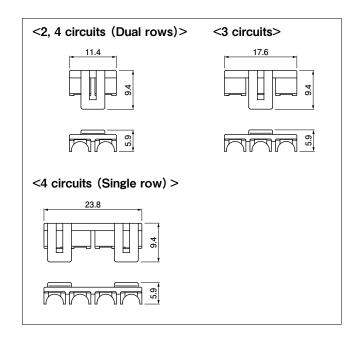


No. of circuits	Model No.	Q'ty/bag
2	VLP-02V-1	500
3	VLP-03V-1	500
4 (Dual rows)	VLP-04V-1	500
4 (Single row)	VLP-04VN-1	500

Material and Finish
PA 66, UL94V-0, natural (white)

RoHS2 compliance

### Retainer



No. of circuits	Model No.	Q'ty/bag
2	VLS-02V	1,000
3	VLS-03V	1,000
4 (Dual rows)	VLS-02V	1,000
4 (Single row)	VLS-08V	1,000

Material and Finish

PA 66 (Glass-filled), UL94V-0, natural (ivory)

RoHS2 compliance

# Header

# Top entry type <2, 3 circuits> <4 circuits (Dual rows)> 18 1.6 4.84 \_2 <4 circuits (Single row)> 11.2 8.2

No. of circuits	Model No.	Dimensio	O'tu/box	
No. of circuits	Model No.	Α	В	Q'ty/box
2	B02P-VL-1	6.2	13.4	100
3	B03P-VL-1	12.4	19.6	100
4 (Dual rows)	B04P-VL-1	6.2	13.4	100
4 (Single row)	B04P-VL-VN-1	18.6	26.2	100

Post: Copper-alloy, tin-plated Wafer: PA 66, UL94V-0, natural (white)

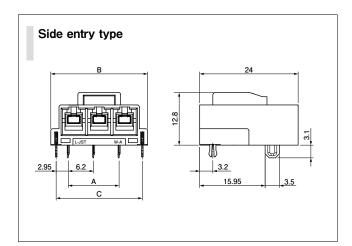
Material and Finish

RoHS2 compliance

- 4 -

**JST** 

# Header



No. of circuits	Model No.	Dimensions (mm)			O'+ . /h
		Α	В	С	Q'ty/box
2	S02P-VL-13	6.2	17.4	14.8	425
3	S03P-VL-13	12.4	23.6	21.0	300

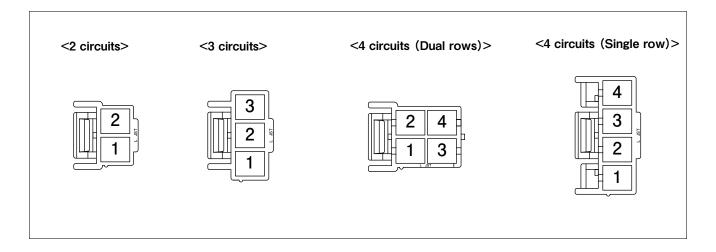
### Material and Finish

Post: Copper alloy, tin-plated Reinforcement: Copper alloy, tin-plated Wafer: PA 66 (Glass-filled), UL94V-0, natural (ivory)

RoHS2 compliance

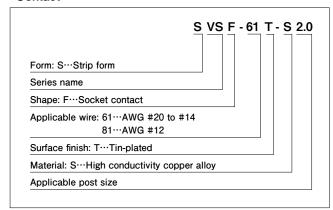
Note: Unlisted in the CSA Standard.

### Contact position location numbers

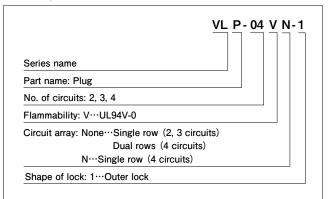


### Model number allocation

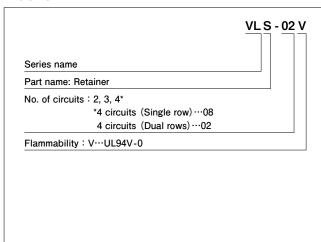
#### Contact



### Housing



### Retainer



#### Header

