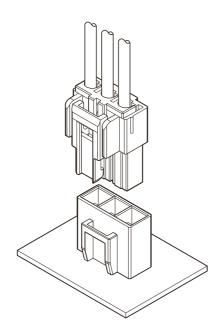


# CONNECTOR (HIGH CURRENT TYPE)

### 6.2mm pitch/Disconnectable Crimp style connectors

(Combined use for both wire-to-board and wire-to-wire connections)



This VL connector is 6.2 mm pitch wire-towire and wire-to-board connector, designed for large current. The connector suitable for the large electric current has been realized by using highly-conducting material, so that the connection of large current circuit enables.

- Housing lances
- Retainer
- Suited for large current
- Compatible for both wire-to-wire and wire-toboard connections

### Specifications -

- Current rating: 23 A AC, DC (Refer to the following table.)
- 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 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

Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 22 A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

Note: The current rating differs 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 the wire size.

Current	

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

- \* The current rating mentioned above is applied only in the combination of contact and header for high current. When either is a normal product, please be careful because the current rating of the normal product is applied.
- \* In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- \* Contact JST for details.
- \* RoHS2 compliance

### Standards -

Recognized E60389

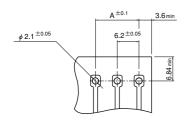
Certified LR20812

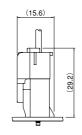
△ R9351103

### PC board layout and Assembly layout

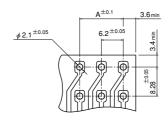
### **Outer-housing lock**

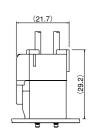
<2, 3, 4 (Single-row) circuits>





#### <4 circuits>

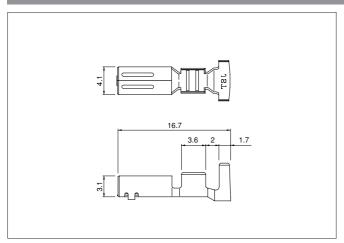




- Note: 1. The above figure is the figure viewed from soldering side.
  - 2. Tolerances are non-cumulative: ±0.05 mm for all centers.
  - 3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

# **VL CONNECTOR (HIGH CURRENT TYPE)**

### Contact



Madal Na	Applicab	le wire	Insulation O.D.	Q'ty/
Model No.	mm²	AWG #	(mm)	reel
SVSF-61T-P2.0	0.5~2.0	20~14	1.9~3.4	2,000
SVSF-81T-P2.0	3.5	12	4.1	2,000

### Material and Finish

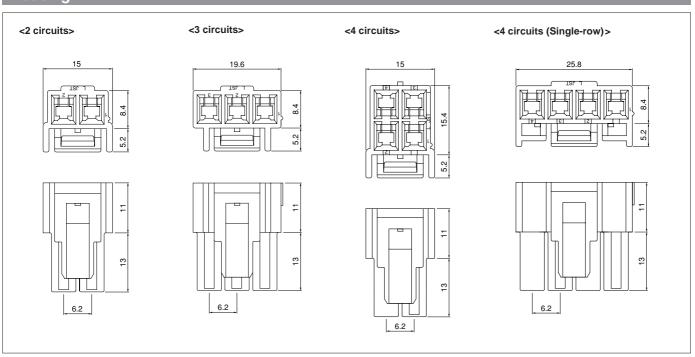
Phosphor bronze, tin-plated (reflow treatment)

### RoHS2 compliance

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

Note: Contact JST for fully automatic crimping applicator.

### Housing



### **Outer-housing lock**

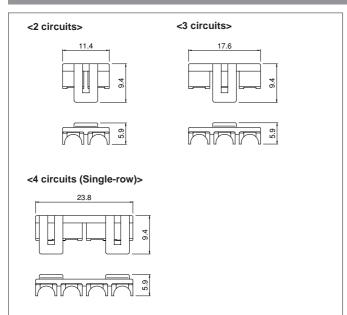
No. of circuits	Model No.	Q'ty/bag
2	VLP-02V-1	500
3	VLP-03V-1	500
4	VLP-04V-1	500
4 (Single-row)	VLP-04VN-1	500

PA 66, UL94V-0, natural (white)

RoHS2 compliance

# VL CONNECTOR (HIGH CURRENT TYPE)

### Retainer



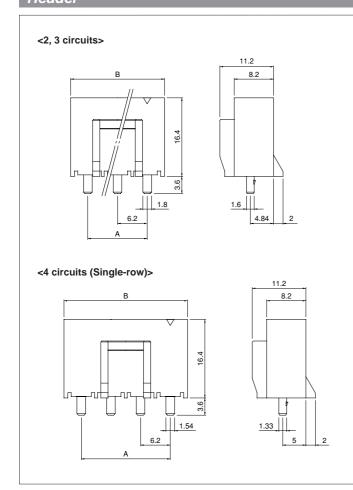
No. of circuits	Model No.	Q'ty/bag
2, 4	VLS-02V	1,000
3	VLP-03V	1,000
4 (Single-row)	VLP-08V	1,000

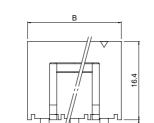
Material

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

RoHS2 compliance

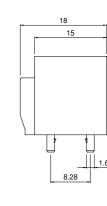
### Header





1.8

<4 circuits>



2 B02P-VL-1 100 3 B03P-VL-1 100 4 B04P-VL-1 100	No. of circuits	Model No.	Q'ty/box
4 <b>B04P-VL-1</b> 100	2	B02P-VL-1	100
	3	B03P-VL-1	100
4 (Oir ele seut) POAR VI VN 4	4	B04P-VL-1	100
4 (Single-row) <b>B04P-VL-VN-1</b> 100	4 (Single-row)	B04P-VL-VN-1	100

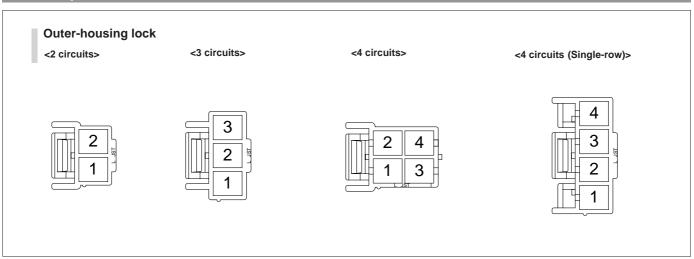
Material and Finish
per-alloy, tin-plated (reflow treatment

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

RoHS2 compliance

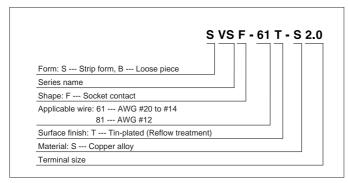
## **VL CONNECTOR (HIGH CURRENT TYPE)**

### Contact position location numbers

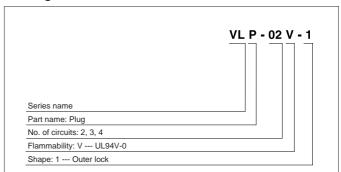


### Model number identification

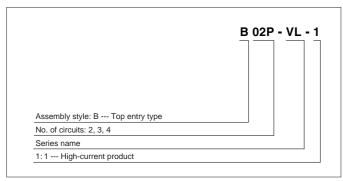
#### Contact



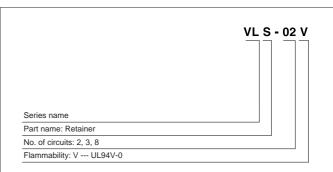
### Housing



### Header



#### Retainer



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